

APPENDIX E – GREENHOUSE GAS EMISSIONS ASSESSMENT

Greenhouse Gas Emissions Assessment
Moreno Valley Mall Redevelopment Project
City of Moreno Valley, California



Expect More. Experience Better.

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APPENDIX

Appendix A: Greenhouse Gas Emissions Data

LIST OF ABBREVIATED TERMS

AB	Assembly Bill
CARB	California Air Resource Board
CCR	California Code of Regulations
CalEEMod	California Emissions Estimator Model
CEQA	California Environmental Quality Act
CALGreen Code	California Green Building Standards Code
CPUC	California Public Utilities Commission
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CFC	Chlorofluorocarbon
CCSP	Climate Change Scoping Plan
cy	cubic yard
EPA	Environmental Protection Agency
FCAA	Federal Clean Air Act
FR	Federal Register
GHG	greenhouse gas
HCFC	Hydrochlorofluorocarbon
HFC	Hydrofluorocarbon
LCFS	Low Carbon Fuel Standard
CH ₄	Methane
MMTCO ₂ e	million metric tons of carbon dioxide equivalent
MTCO ₂ e	million tons of carbon dioxide equivalent
NHTSA	National Highway Traffic Safety Administration
NF ₃	nitrogen trifluoride
N ₂ O	nitrous oxide
PFC	Perfluorocarbon
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCAG	Southern California Association of Government
Sf	square foot
SF ₆	sulfur hexafluoride
TAC	toxic air contaminants

1 INTRODUCTION

This report documents the results of a Greenhouse Gas (GHG) Emissions Assessment completed for the Moreno Valley Mall Redevelopment Project (“Project” or “Proposed Project”). The purpose of this GHG Emissions Assessment is to evaluate the potential construction and operational emissions associated with the Project and determine the level of impact the Project would have on the environment.

1.1 Project Location and Setting

The Project site is located within the northwestern portion of the City within the County of Riverside (County) at 22500 Town Circle, Moreno Valley. The approximately 58.6-acre site is located south of I-60, north of Towngate Boulevard, and west of Frederick Street. Town Circle is a loop road that borders the site. The following Assessor Parcel Numbers (APNs) are associated with the Project site: 291-110-032, 291-110-033, 291-110-034, and 291-110-035. Regional access to the site is provided via Frederick Street and Day Street from SR-60 and Eucalyptus Avenue from I-215, (see [Exhibit 1: Regional Location Map](#) and [Exhibit 2: Project Vicinity Map](#)).

1.2 Project Description

The Project proposes revitalization and redevelopment of a portion of the existing Moreno Valley Mall (excluding the existing JC Penny and Macy’s parcels). The intent of the proposed Project is to plan and integrate multiple uses across the site that enable crossover of professional, shopping, and resident populations. To this end, the Project site would be divided into 14 parcels. Each use is intended to grow density and increase value and attraction of the original commercial Mall. Key features of the concept plan include the following:

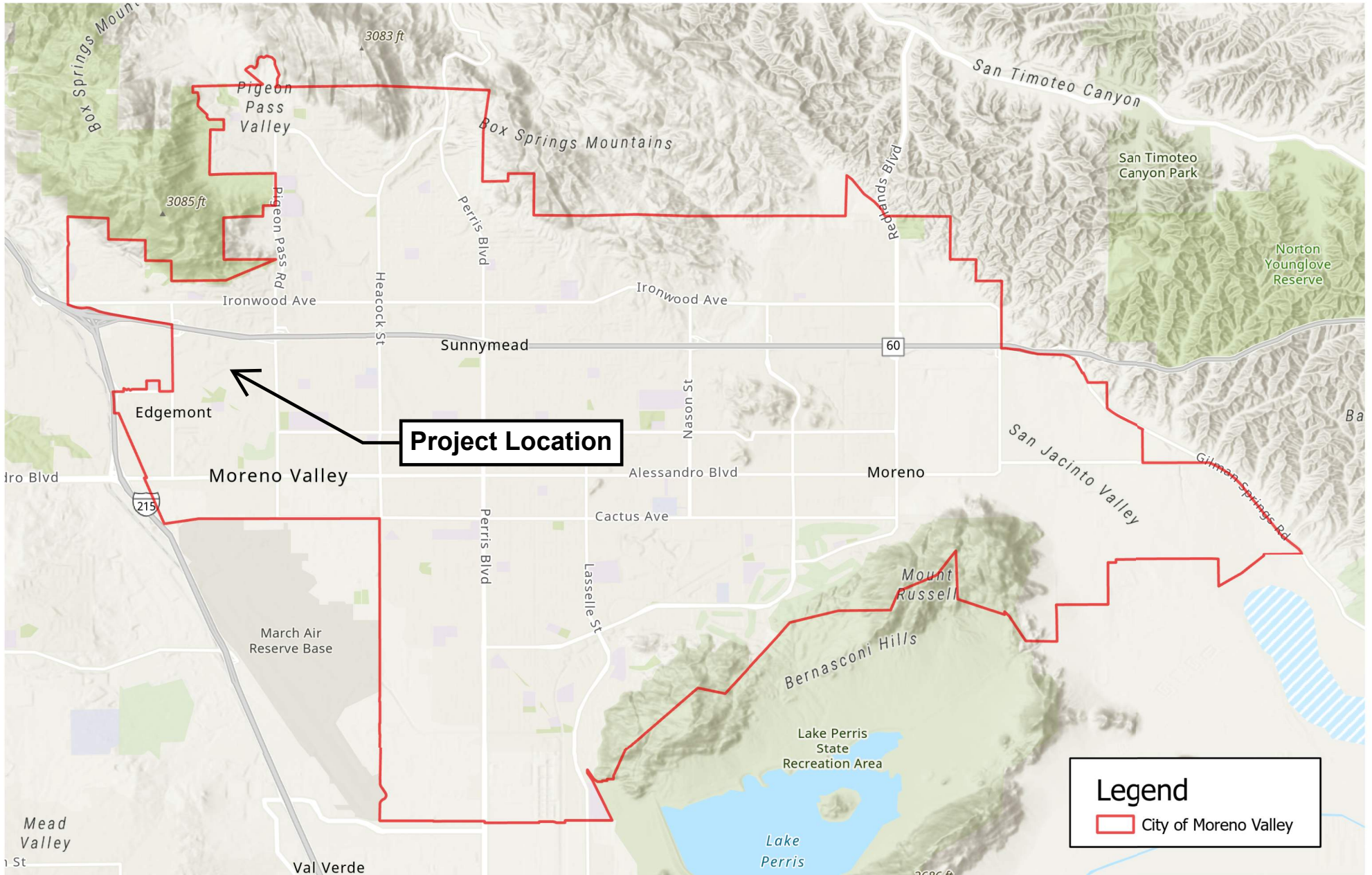
- Residential North West: There is approximately 250 multi-family units proposed amongst two residential buildings in the northwest corner of the site, adjacent to the Theater and existing two-level parking structure.
- Residential South East: There is approximately 1,500 multi-family units proposed in the south east portion of the site. The three residential buildings would be proposed in three phases and interconnected by pedestrian scaled streetscapes. To this end, the existing Mall Ring Road is proposed to be narrowed between new residential and existing residential uses outside of the Project site to the south. A commons greenway is proposed to connect this residential district to the existing Mall’s southeast entry.
- Hospitality: There are two hotels proposed in the North East parking field of the site. The two hotels would operate jointly out of one building. One hotel would have a capacity of 120 keys, and the second hotel would have a capacity of 150 keys with an event/conference space.
- New Parking Structure: The existing/vacant ‘Gottshalks’ anchor building is proposed to maintain the majority of its commercial/retail square footage and a wrap parking structure shall be added. The new parking will serve Mall customers, and Hospitality/Event parking from both upper-level connections and lower parking field access to the west side of the structure.
- Entertainment: The north lower-level parking field will be re-planned to accommodate an exterior entry/exit to the Theater, and a new outdoor dining patio for multiple tenants.

- **Transit Center:** The Transit Center is proposed to be relocated to the northern portion of the Project site on Town Circle to serve and connect various user populations which may include resident, workforce, student, and shopping/business markets.
- **Food Market:** The existing Mall “Food Court” is planned to be redeveloped into a new interior and exterior “pavilion” Food Market.
- **Existing Mall:** This existing Mall interior is intended to be re-modeled to match the new level of development, variety and pedestrian connections across the entire site. Various entries, exterior facades, interior bridges, common restrooms, and re-planned tenant square footage will all be part of the vision that ties the Specific Plan Amendment together.

Exhibit 3: Conceptual Site Plan, provide the overall vision for the Project and the development of the anticipated residential, hospitality, office, and commercial uses.

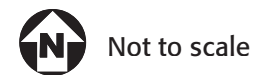
Construction/Operation

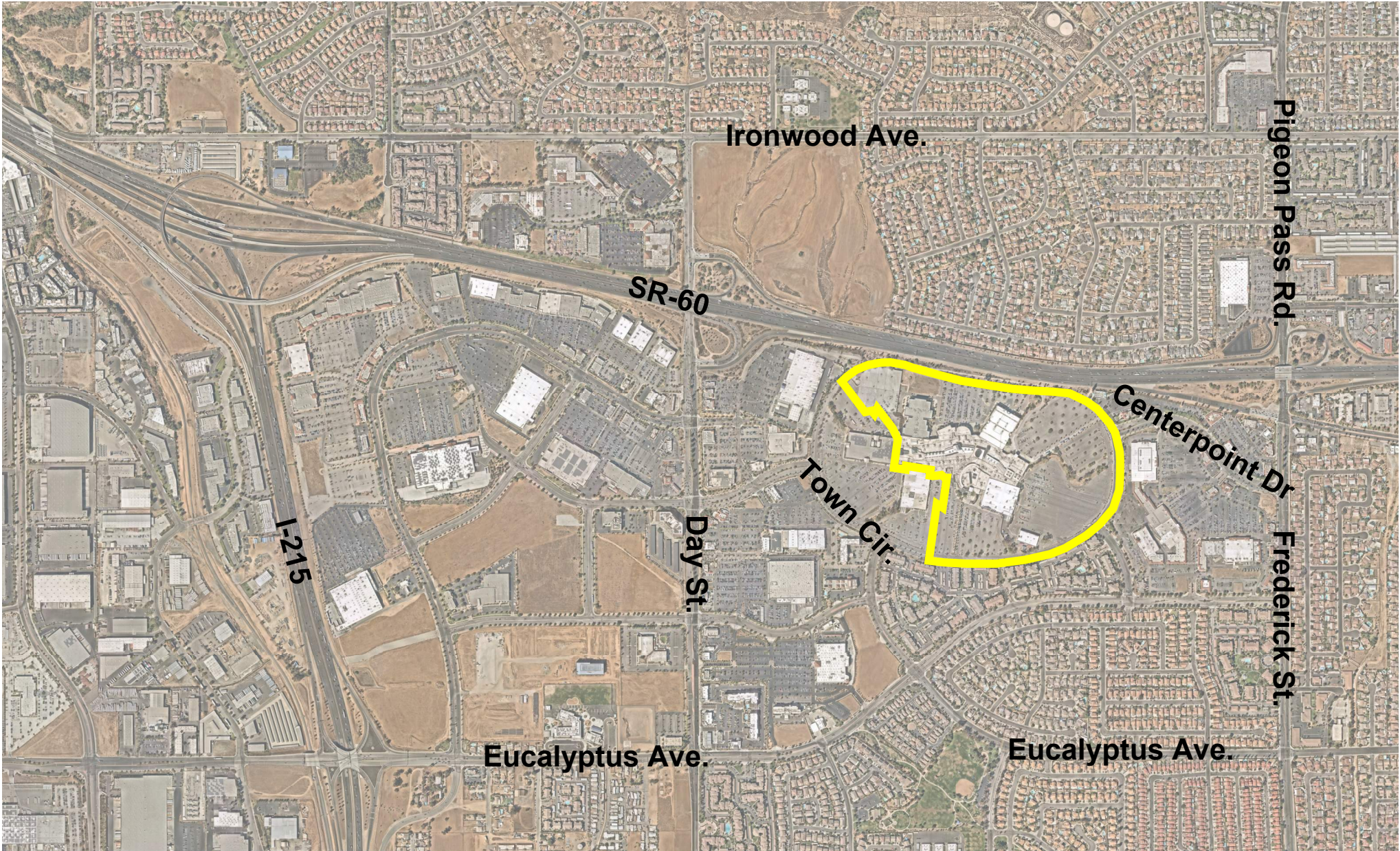
Construction is expected to be initiated in early 2023 and completed by mid-2026. Hours of operation would be specified in the Specific Plan and EIR, generally anticipated to be 24 hours per day, 7 days per week for the hotel and residential uses, late night for the Theater and dining area (similar to current theater operations), with typical retail store hours for the interior mall and Food Market.



Source: ESRI, 2022

EXHIBIT 1: Regional Location Map
Moreno Valley Mall Redevelopment Project






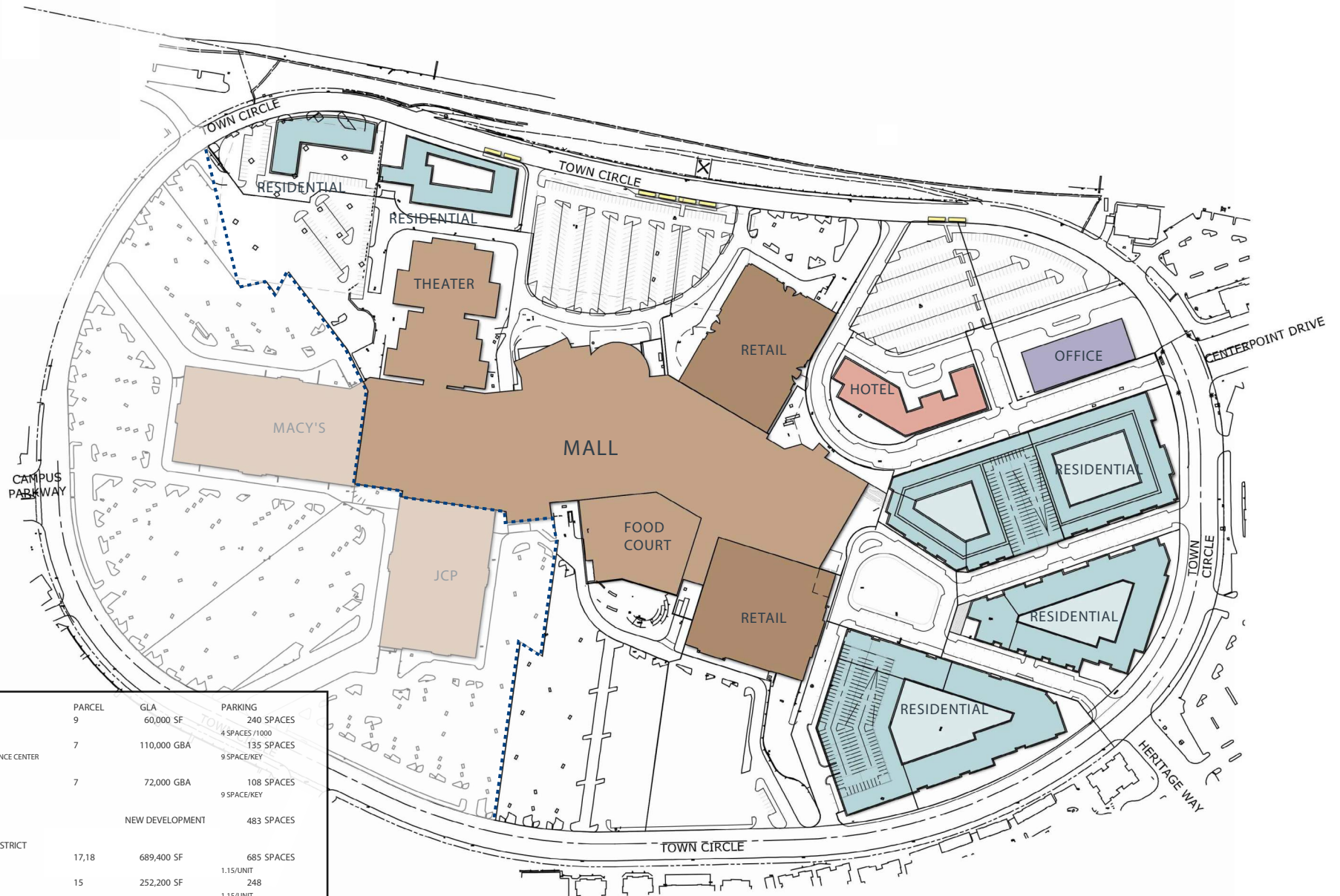
Map source: Nearmap, September 18, 2021

 Project Site

EXHIBIT 2: Project Vicinity Map
Moreno Valley Mall Redevelopment Project

 Not to scale

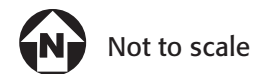
Kimley»Horn



NEW DEVELOPMENT			
OFFICE	9	60,000 SF	240 SPACES
3 LEVELS			4 SPACES/1000
HOTEL A - 150 KEYS	7	110,000 GBA	135 SPACES
RESTAURANT & CONFERENCE CENTER			9 SPACE/KEY
5 LEVELS			
HOTEL B - 120 KEYS	7	72,000 GBA	108 SPACES
3 LEVELS			9 SPACE/KEY
		NEW DEVELOPMENT	483 SPACES
NEW RESIDENTIAL DISTRICT			
RESIDENTIAL	17,18	689,400 SF	685 SPACES
7 LEVELS/596 UNITS			1.15/UNIT
RESIDENTIAL	15	252,200 SF	248
5 LEVELS/216 UNITS			1.15/UNIT
RESIDENTIAL	11,12	646,100 SF	650
7 LEVELS/565 UNITS			1.15/UNIT
RESIDENTIAL	1,2	280,000 SF	288
4 LEVELS/250 UNITS			1.15/UNIT
		RESIDENTIAL	1,871 SPACES

Source: Hanna Partners, 02/10/2022

EXHIBIT 3: Conceptual Site Plan Moreno Valley Mall Redevelopment Project



2 ENVIRONMENTAL SETTING

2.1 Greenhouse Gases and Climate Change

Certain gases in the earth's atmosphere classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

The primary GHGs contributing to the greenhouse effect are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the Earth's climate, known as global climate change or global warming.

GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants (TACs), which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of a GHG molecule is dependent on multiple variables and cannot be pinpointed, more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused CO₂ emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused CO₂ emissions remains stored in the atmosphere.¹ [Table 1: Description of Greenhouse Gases](#) describes the primary GHGs attributed to global climate change, including their physical properties.

¹ Intergovernmental Panel on Climate Change, *Carbon and Other Biogeochemical Cycles*. In: *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2013. http://www.climatechange2013.org/images/report/WG1AR5_ALL_FINAL.pdf.

Greenhouse Gas	Description
Carbon Dioxide (CO ₂)	CO ₂ is a colorless, odorless gas that is emitted naturally and through human activities. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. The largest source of CO ₂ emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, and industrial facilities. The atmospheric lifetime of CO ₂ is variable because it is readily exchanged in the atmosphere. CO ₂ is the most widely emitted GHG and is the reference gas (Global Warming Potential of 1) for determining Global Warming Potentials for other GHGs.
Nitrous Oxide (N ₂ O)	N ₂ O is largely attributable to agricultural practices and soil management. Primary human-related sources of N ₂ O include agricultural soil management, sewage treatment, combustion of fossil fuels, and adipic and nitric acid production. N ₂ O is produced from biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N ₂ O is approximately 120 years. The Global Warming Potential of N ₂ O is 298.
Methane (CH ₄)	CH ₄ , a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. Methane is the major component of natural gas, about 87 percent by volume. Human-related sources include fossil fuel production, animal husbandry, rice cultivation, biomass burning, and waste management. Natural sources of CH ₄ include wetlands, gas hydrates, termites, oceans, freshwater bodies, non-wetland soils, and wildfires. The atmospheric lifetime of CH ₄ is about 12 years and the Global Warming Potential is 25.
Hydrofluorocarbons (HFCs)	HFCs are typically used as refrigerants for both stationary refrigeration and mobile air conditioning. The use of HFCs for cooling and foam blowing is increasing, as the continued phase out of CFCs and HCFCs gains momentum. The 100-year Global Warming Potential of HFCs range from 124 for HFC-152 to 14,800 for HFC-23.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Global Warming Potentials range from 6,500 to 9,200.
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited their production in 1987. Global Warming Potentials for CFCs range from 3,800 to 14,400.
Sulfur Hexafluoride (SF ₆)	SF ₆ is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. The Global Warming Potential of SF ₆ is 23,900.
Hydrochlorofluorocarbons (HCFCs)	HCFCs are solvents, similar in use and chemical composition to CFCs. The main uses of HCFCs are for refrigerant products and air conditioning systems. As part of the Montreal Protocol, HCFCs are subject to a consumption cap and gradual phase out. The United States is scheduled to achieve a 100 percent reduction to the cap by 2030. The 100-year Global Warming Potentials of HCFCs range from 90 for HCFC-123 to 1,800 for HCFC-142b.
Nitrogen Trifluoride (NF ₃)	NF ₃ was added to Health and Safety Code section 38505(g)(7) as a GHG of concern. This gas is used in electronics manufacture for semiconductors and liquid crystal displays. It has a high global warming potential of 17,200.
Source: Compiled from U.S. EPA, <i>Overview of Greenhouse Gases</i> , April 11, 2018 (https://www.epa.gov/ghgemissions/overview-greenhouse-gases); U.S. EPA, <i>Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016</i> , 2018; Intergovernmental Panel on Climate Change, <i>Climate Change 2007: The Physical Science Basis</i> , 2007; National Research Council, <i>Advancing the Science of Climate Change</i> , 2010; U.S. EPA, <i>Methane and Nitrous Oxide Emission from Natural Sources</i> , April 2010.	

3 REGULATORY SETTING

3.1 Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

U.S. Environmental Protection Agency Endangerment Finding

The U.S. Environmental Protection Agency (EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing FCAA and the EPA's assessment of the scientific evidence that form the basis for the EPA's regulatory actions.

Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO₂ in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021, and NHTSA intends to set standards for model years 2022–2025 in a future rulemaking. On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks. It should be noted that the U.S. EPA is currently proposing to freeze the vehicle fuel efficiency standards at their planned 2020 level (37 mpg), canceling any future strengthening (currently 54.5 mpg by 2026).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baselines.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO₂ emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program.

In 2018, the President and the EPA stated their intent to halt various federal regulatory activities to reduce GHG emission, including the phase two program. California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. On September 27, 2019, the EPA and the NHTSA published the “Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program.” (84 Fed. Reg. 51,310 (Sept. 27, 2019.)) The Part One Rule revokes California’s authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the EPA and NHTSA finalized rulemaking for SAFE Part Two sets CO₂ emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021-2026. The current U.S. EPA administration has repealed SAFE Rule Part One, effective January 28, 2022 and is currently reconsidering Part Two.

Presidential Executive Orders 13990 and 14008

On January 20, 2021, President Biden issued Executive Order 13990, "Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis". Executive Order 13990 directs Federal agencies to immediately review and take action to address the promulgation of Federal regulations and other actions that conflict with these important national objectives and to immediately commence work to confront the climate crisis. Executive Order 13990 directs the Council on Environmental Quality (CEQ) to review CEQ’s 2020 regulations implementing the procedural requirements of the National

Environmental Policy Act (NEPA) and identify necessary changes or actions to meet the objectives of Executive Order 13990.

On January 27, 2021, President Biden signed Executive Order 14008, "Tackling the Climate Crisis at Home and Abroad," to declare the Administration's policy to move quickly to build resilience, both at home and abroad, against the impacts of climate change that are already manifest and will continue to intensify according to current trajectories. In line with these Executive Order directives, CEQ is reviewing the 2020 NEPA regulations and plans to publish a notice of proposed rulemaking (NPRM) to identify necessary revisions in order to comply with the law; meet the environmental, climate change, and environmental justice objectives of Executive Orders 13990 and 14008; ensure full and fair public involvement in the NEPA process; provide regulatory certainty to stakeholders; and promote better decision making consistent with NEPA's statutory requirements. This phase 1 rulemaking will propose a narrow set of changes to the 2020 NEPA regulations to address these goals.

3.2 State of California

California Air Resources Board

The California Air Resources Board (CARB) is responsible for the coordination and oversight of State and local air pollution control programs in California. Various statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of CO₂ equivalents (CO₂e) in the world and produced 459 million gross metric tons of CO₂e in 2013. In the State, the transportation sector is the largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation, such as the landmark Assembly Bill (AB) 32, *California Global Warming Solutions Act of 2006*, was specifically enacted to address GHG emissions. Other legislation, such as Title 24 building efficiency standards and Title 20 appliance energy standards, were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

Assembly Bill 32 (California Global Warming Solutions Act of 2006)

AB 32 instructs the CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

CARB Scoping Plan

CARB adopted the Scoping Plan to achieve the goals of AB 32. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and

regulations (referred to as “business-as-usual”).² The Scoping Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the State’s Climate Action Team, identifies additional measures to be pursued as regulations, and outlines the adopted role of a cap-and-trade program.³ Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key elements of the Scoping Plan include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85 percent of California’s GHG emissions (adopted in 2011).
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets (several sustainable community strategies have been adopted).
- Adopting and implementing measures pursuant to existing State laws and policies, including California’s clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of the State of California’s long-term commitment to AB 32 implementation.

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated in light of current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 million metric tons of CO₂e (MMTCO₂e) to 545 MMTCO₂e. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32’s goal of reaching 1990 levels by 2020 is now 21.7 percent, down from 29 percent. CARB also provided a lower 2020 inventory forecast that incorporated State-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16 percent.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It

² CARB defines business-as-usual (BAU) in its Scoping Plan as emissions levels that would occur if California continued to grow and add new GHG emissions but did not adopt any measures to reduce emissions. Projections for each emission-generating sector were compiled and used to estimate emissions for 2020 based on 2002–2004 emissions intensities. Under CARB’s definition of BAU, new growth is assumed to have the same carbon intensities as was typical from 2002 through 2004.

³ The Climate Action Team, led by the secretary of the California Environmental Protection Agency, is a group of State agency secretaries and heads of agencies, boards, and departments. Team members work to coordinate statewide efforts to implement global warming emissions reduction programs and the State’s Climate Adaptation Strategy.

identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32.

In 2016, the Legislature passed Senate Bill (SB) 32, which codifies a 2030 GHG emissions reduction target of 40 percent below 1990 levels. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017 CARB adopted a second update to the Scoping Plan.⁴ The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017 Scoping plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support other Federal actions.

Senate Bill 32 (California Global Warming Solutions Act of 2006: Emissions Limit)

Signed into law in September 2016, SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40 percent below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions.

SB 375 (The Sustainable Communities and Climate Protection Act of 2008)

Signed into law on September 30, 2008, SB 375 provides a process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction goals established by AB 32. SB 375 requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, aligns planning for transportation and housing, and creates specified incentives for the implementation of the strategies.

AB 1493 (Pavley Regulations and Fuel Efficiency Standards)

AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011. The regulations establish one set of emission standards for model years 2009–2016 and a second set of emissions standards for model years 2017 to 2025. By 2025, when all rules will be fully implemented, new automobiles will emit 34 percent fewer CO₂e emissions and 75 percent fewer smog-forming emissions.

SB 1368 (Emission Performance Standards)

SB 1368 is the companion bill of AB 32, which directs the California Public Utilities Commission (CPUC) to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 limits carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants

⁴ California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf, accessed March 12, 2020.

located in or out of the State. The CPUC adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, for 1,100 pounds of CO₂ per megawatt-hour.

SB 1078 and SBX1-2 (Renewable Electricity Standards)

SB 1078 requires California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 changed the due date to 2010 instead of 2017. On November 17, 2008, the Governor signed Executive Order S-14-08, which established a Renewable Portfolio Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Executive Order S-21-09 also directed CARB to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23. SBX1-2, which codified the 33 percent by 2020 goal.

SB 350 (Clean Energy and Pollution Reduction Act of 2015)

Signed into law on October 7, 2015, SB 350 implements the goals of Executive Order B-30-15. The objectives of SB 350 are to increase the procurement of electricity from renewable sources from 33 percent to 50 percent (with interim targets of 40 percent by 2024, and 25 percent by 2027) and to double the energy efficiency savings in electricity and natural gas end uses of retail customers through energy efficiency and conservation. SB 350 also reorganizes the Independent System Operator to develop more regional electricity transmission markets and improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

AB 398 (Market-Based Compliance Mechanisms)

Signed on July 25, 2017, AB 398 extended the duration of the Cap-and-Trade program from 2020 to 2030. AB 398 required CARB to update the Scoping Plan and for all GHG rules and regulations adopted by the State. It also designated CARB as the statewide regulatory body responsible for ensuring that California meets its statewide carbon pollution reduction targets, while retaining local air districts' responsibility and authority to curb toxic air contaminants and criteria pollutants from local sources that severely impact public health. AB 398 also decreased free carbon allowances over 40 percent by 2030 and prioritized Cap-and-Trade spending to various programs including reducing diesel emissions in impacted communities.

SB 150 (Regional Transportation Plans)

Signed on October 10, 2017, SB 150 aligns local and regional GHG reduction targets with State targets (i.e., 40 percent below their 1990 levels by 2030). SB 150 creates a process to include communities in discussions on how to monitor their regions' progress on meeting these goals. The bill also requires the CARB to regularly report on that progress, as well as on the successes and the challenges regions experience associated with achieving their targets. SB 150 provides for accounting of climate change efforts and GHG reductions and identify effective reduction strategies.

SB 100 (California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases)

Signed into Law in September 2018, SB 100 increased California's renewable electricity portfolio from 50 to 60 percent by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs using executive orders. Although not regulatory, they set the tone for the State and guide the actions of state agencies.

Executive Order S-3-05. Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07. Issued on January 18, 2007, Executive Order S 01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. The executive order established a Low Carbon Fuel Standard (LCFS) and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission, CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. CARB adopted the LCFS on April 23, 2009.

Executive Order S-13-08. Issued on November 14, 2008, Executive Order S-13-08 facilitated the California Natural Resources Agency development of the 2009 California Climate Adaptation Strategy. Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order S-14-08. Issued on November 17, 2008, Executive Order S-14-08 expands the State's Renewable Energy Standard to 33 percent renewable power by 2020. Additionally, Executive Order S-21-09 (signed on September 15, 2009) directs CARB to adopt regulations requiring 33 percent of electricity sold in the State come from renewable energy by 2020. CARB adopted the Renewable Electricity Standard on September 23, 2010, which requires 33 percent renewable energy by 2020 for most publicly owned electricity retailers.

Executive Order S-21-09. Issued on July 17, 2009, Executive Order S-21-09 directs CARB to adopt regulations to increase California's RPS to 33 percent by 2020. This builds upon SB 1078 (2002), which established the California RPS program, requiring 20 percent renewable energy by 2017, and SB 107 (2006), which advanced the 20 percent deadline to 2010, a goal which was expanded to 33 percent by 2020 in the 2005 Energy Action Plan II.

Executive Order B-30-15. Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40 percent below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of CO₂e (MMTCO₂e). The 2030 target acts as an interim goal on the way to achieving reductions of 80 percent below 1990 levels by 2050, a goal set by Executive Order S-3-05. The executive order also requires the State's climate adaptation plan to be updated every three years and for the State to continue its climate change research program, among

other provisions. With the enactment of SB 32 in 2016, the Legislature codified the goal of reducing GHG emissions by 2030 to 40 percent below 1990 levels.

Executive Order B-55-18. Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant state agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires state agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

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

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California’s energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Regulations. The appliance efficiency regulations (California Code of Regulations [CCR] Title 20, Sections 1601-1608) include standards for new appliances. Twenty-three categories of appliances are included in the scope of these regulations. These standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances.

Title 24 Building Energy Efficiency Standards. California’s Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR Title 24, Part 6), was first adopted in 1978 in response to a legislative mandate to reduce California’s energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2016 Building Energy Efficiency Standards approved on January 19, 2016 went into effect on January 1, 2017. The 2019 Building Energy Efficiency Standards were adopted on May 9, 2018 and went into effect on January 1, 2020. Under the 2019 standards, homes will use about 53 percent less energy and nonresidential buildings will use about 30 percent less energy than buildings under the 2016 standards. The CEC adopted the 2022 Energy Code on August 11, 2021, which was subsequently approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage

standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.

Title 24 California Green Building Standards Code. The California Green Building Standards Code (CCR Title 24, Part 11 code) commonly referred to as the CALGreen Code, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and commercial buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code went into effect January 1, 2020. The 2019 CALGreen standards improve upon the previous standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The CEC adopted the 2022 CALGreen Code, which will go into effect on January 1, 2023.

3.3 Regional

South Coast Air Quality Management District Thresholds

The South Coast Air Quality Management District (SCAQMD) formed a GHG California Environmental Quality Act (CEQA) Significance Threshold Working Group to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents. This working group was formed to assist SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders including the State Office of Planning and Research, CARB, the Attorney General's Office, a variety of city and county planning departments in the SCAB, various utilities such as sanitation and power companies throughout the SCAB, industry groups, and environmental and professional organizations. The Working Group has proposed to adopt a tiered approach for evaluating GHG emissions for development projects where SCAQMD is not the lead agency, wherein projects are evaluated sequentially through a series of "tiers" to determine whether the project is likely to result in a potentially significant impact due to GHG emissions.

With the tiered approach, the Project is compared with the requirements of each tier sequentially and would not result in a significant impact if it complies with any tier. Tier 1 excludes projects that are specifically exempt from SB 97 from resulting in a significant impact. Tier 2 excludes projects that are consistent with a GHG reduction plan that has a certified final CEQA document and complies with AB 32 GHG reduction goals. Tier 3 excludes projects with annual emissions lower than a screening threshold. The SCAQMD has adopted a threshold of 10,000 metric tons of CO₂e (MTCO₂e) per year for industrial projects and a 3,000 MTCO₂e threshold was proposed for non-industrial projects but has not been adopted. The SCAQMD concluded that projects with emissions less than the screening threshold would not result in a significant cumulative impact.

Tier 4 consists of three decision tree options. Under the Tier 4 first option, SCAQMD initially outlined that a project would be excluded if design features and/or mitigation measures resulted in emissions 30 percent lower than business as usual emissions. However, the Working Group did not provide a recommendation for this approach. The Working Group folded the Tier 4 second option into the third option. Under the Tier 4 option, a project would be excluded if it was below an efficiency-based threshold of 4.8 MTCO₂e per service population per year. Tier 5 would exclude projects that implement offsite

mitigation (GHG reduction projects) or purchase offsets to reduce GHG emission impacts to less than the proposed screening level.

Tier 3 Screening Thresholds

When the tiered approach is applied to a proposed project, and the project is found not to comply with Tier 1 or Tier 2, the project's emissions are compared against a screening threshold, as described above, for Tier 3. The screening threshold formally adopted by SCAQMD is an "interim" screening threshold for stationary source industrial projects where the SCAQMD is the lead agency under CEQA. The threshold was termed "interim" because, at the time, SCAQMD anticipated that CARB would be adopting a statewide significance threshold that would inform and provide guidance to SCAQMD in its adoption of a final threshold. However, no statewide threshold was ever adopted, and the interim threshold remains in effect.

For projects for which SCAQMD is not a lead agency, no screening thresholds have been formally adopted. However, the SCAQMD Working Group has recommended a threshold of 10,000 MTCO₂e/year for industrial projects and 3,000 MTCO₂e/year for residential and commercial projects. SCAQMD determined that these thresholds would "capture" 90 percent of GHG emissions from these sectors, "capture" meaning that 90 percent of total emissions from all new projects would be subject to some type of CEQA analysis (i.e., found potentially significant).⁵

Southern California Association of Governments

On September 3, 2020, SCAG's Regional Council adopted *Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy [2020 RTP/SCS])*. The RTP/SCS charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The strategy was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. The RTP/SCS is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals. The SCAG region strives toward sustainability through integrated land use and transportation planning. The SCAG region must achieve specific federal air quality standards and is required by state law to lower regional GHG emissions.

⁵ SCAQMD, "Staff Report: Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans," December 5, 2008, Attachment E: "Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold," October 2008, p. 3-2.

3.4 Local

City of Moreno Valley General Plan

The City of Moreno Valley's General Plan outlines the concerns of the community and the means of addressing those concerns. Chapter 6, Safety focuses on potential for natural hazards that pose risk to human health and property, including earthquakes, landslides, flooding, wildfire, and wind-related hazards. These risks are compounded by the warming of the climate, which is projected to bring hotter average daily temperatures, increased rainfall intensity, and more extreme weather events. General Plan policies that relate to greenhouse gas impacts include the following:

Goal S-3: Build community resilience to climate change.

- Policy S.3-1: Continue to collaborate in regional climate action planning initiatives.
- Policy S.3-6: Encourage the use of landscaping, building materials, and site design techniques that provide passive cooling and reduce energy demand. In particular, promote the use of voluntary measures identified in the California Green Building Code (Title 24, Part 11 of the California Code of Regulations) to minimize heat island effects, including hardscape and roof materials with beneficial solar reflectance and thermal emittance values and measures for exterior wall shading.
- Policy S.3-7: Require new development to provide and maintain shade trees suitable to local climatic conditions. A climate-appropriate strategy may involve planting mostly drought-tolerant native trees that may have less foliage, interspersed with leafier trees at points where people gather.
- Policy S.3-8: Assess the feasibility of implementing urban heat island mitigation technologies in public gathering places, including UV-reflective materials and coatings, porous pavement, evaporative cooling towers, or other technologies that can reduce surface and air temperature and mitigate for the effects of extreme heat.

City of Moreno Valley Climate Action Plan

The City of Moreno Valley published a Climate Action Plan (CAP) Draft on March 30, 2021. The Moreno Valley CAP is designed to reinforce the City's commitment to reducing greenhouse emissions and demonstrate how the City will comply with California's GHG emission reduction standards.

Transportation Measures

Transportation was found to be the largest contributor to GHG emissions. The following transportation measures are applicable to the Project:

- TR-5: Employment-Based Trip Reductions. Require a Transportation Demand Management (TDM) program for new development to reduce automobile travel by encouraging ride-sharing, carpooling, and alternative modes of transportation.

- TR-9: Consider requiring new multi-family residential and mixed-use development to reduce the need for external trips by providing useful services/facilities on-site such as an ATM, vehicle refueling, electric vehicle infrastructure, and shopping.

Residential Measures

Moreno Valley seeks to provide a range of new housing suited to people of all ages and income levels with an emphasis on increasing the diversity of housing types in the community and promoting construction of multi-family and mixed-use residential development in infill areas near employment and shopping and well-served by transit and public facilities. The following strategies identified in the CAP represent opportunities to reduce residential emissions through energy-efficient improvements, energy audits, and citywide programs:

- R-1: Provide incentives such as streamlined permitting or bonus density for new multi-family buildings and re-roofing projects to install “cool” roofs consistent with the current California Green Building Code (CALGreen) standards for commercial and industrial buildings.
- R-2: Require new construction and major remodels to install interior real-time energy smart meters in line with current utility provider (e.g. MVU, SCE) efforts.
- R-3: Develop and implement program to incentivize single-family residential efficiency retrofits and participation in Moreno Valley Utility direct install program with the goal of a 50 percent energy reduction compared to baseline in 30 percent of the total single-family homes citywide by 2040.
- R-7: Develop and implement program to incentivize multi-family residential efficiency audits and participation in Moreno Valley Utility direct install program with the goal of a 50 percent energy reduction in 30 percent of the projected amount of multi-family homes citywide by 2035.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Thresholds and Significance Criteria

Addressing GHG emissions generation impacts requires an agency to determine what constitutes a significant impact. The amendments to the CEQA Guidelines specifically allow lead agencies to determine thresholds of significance that illustrate the extent of an impact and are a basis from which to apply mitigation measures. This means that each agency is left to determine whether a project's GHG emissions will have a "significant" impact on the environment. The guidelines direct that agencies are to use "careful judgment" and "make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" the project's GHG emissions⁶.

Based upon the criteria derived from Appendix G of the CEQA Guidelines, a project normally would have a significant effect on the environment if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, based on any applicable threshold of significance; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

South Coast Air Quality Management District Thresholds

On September 28, 2010, the SCAQMD recommended an interim screening level numeric "bright-line" threshold of 3,000 metric tons per year of CO₂e for non-industrial land uses. These efficiency-based thresholds were developed as part of the SCAQMD GHG CEQA Significance Threshold Working Group. This working group was formed to assist SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders including the State Office of Planning and Research, CARB, the Attorney General's Office, a variety of city and county planning departments in the SCAB, various utilities such as sanitation and power companies throughout the SCAB, industry groups, and environmental and professional organizations. The numeric "bright line" was developed to be consistent with CEQA requirements for developing significance thresholds, are supported by substantial evidence, and provides guidance to CEQA practitioners in determining whether GHG emissions from a proposed project are significant.

The City has not adopted project-specific significance thresholds. For the proposed project, the SCAQMD's proposed 3,000 MTCO₂e/year non-industrial screening threshold is used as the significance threshold in addition to the qualitative thresholds of significance set forth below from CEQA Guidelines Appendix G, Section VII. The 3,000 MTCO₂e/year screening threshold represents a 90 percent capture rate (i.e., this threshold captures projects that represent approximately 90 percent of GHG emissions from new sources). The 3,000 MTCO₂e/year value is typically used in defining small projects that are considered less than significant.⁷

⁶ 14 California Code of Regulations, Section 15064.4a

⁷ On page 3-2 and 3-3 of the SCAQMD's *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* (October 2008) the SCAQMD notes that a GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term GHG impacts. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude

4.2 Methodology

Global climate change is, by definition, a cumulative impact of GHG emissions. Therefore, there is no project-level analysis. The baseline against which to compare potential impacts of the Project includes the natural and anthropogenic drivers of global climate change, including world-wide GHG emissions from human activities which almost doubled between 1970 and 2010 from approximately 27 gigatonnes (Gt) of CO₂/year to nearly 49 GtCO₂/year.⁸ As such, the geographic extent of climate change and GHG emissions' cumulative impact discussion is worldwide.

The Project's construction and operational emissions were calculated using the California Emissions Estimator Model version 2020.4.0 (CalEEMod). Details of the modeling assumptions and emission factors are provided in [Appendix A: Greenhouse Gas Emissions Data](#). The Project's construction-related GHG emissions would be generated from off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. For construction, CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. GHG emissions during construction were forecasted based on the proposed construction schedule and applying the mobile-source and fugitive dust emissions factors derived from CalEEMod.

The Project's operational GHG emissions would be generated by vehicular traffic, area sources (e.g., landscaping maintenance, consumer products), electrical generation, natural gas consumption, water supply and wastewater treatment, and solid waste. These emissions categories are discussed below.

- **Area Sources.** Area source emissions occur from hearths, architectural coatings, landscaping equipment, and consumer products. Additionally, the primary emissions from architectural coatings are volatile organic compounds, which are relatively insignificant as direct GHG emissions.
- **Energy Consumption.** Energy consumption consists of emissions from project consumption of electricity and natural gas. Primary uses of electricity and natural gas by the Project would be for space heating and cooling, water heating, ventilation, lighting, appliances, and electronics. Energy emissions are calculated based on consumption rates and emissions factors in CalEEMod. No changes were made to the default energy usage consumption rates or emissions factors.
- **Solid Waste.** Solid waste releases GHG emissions in the form of methane when these materials decompose. Solid waste emissions are calculated based on generation rates and emissions factors in CalEEMod.
- **Water and Wastewater.** Project GHG emissions would be generated from energy consumption associated with water and wastewater conveyance and treatment. Water and wastewater emissions are calculated based on the estimated consumption and emissions factors in CalEEMod.

small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that the SCAQMD estimates that these GHG emissions would account for less than one percent of future 2050 statewide GHG emissions target (85 MMTCO₂e/year). In addition, these small projects would be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory.

⁸ Intergovernmental Panel on Climate Change, *Climate Change 2014 Mitigation of Climate Change Working Group III Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2014.

- **Mobile Sources.** Mobile sources are emissions from motor vehicles. The Project's generated traffic was obtained from the Project's Moreno Valley Mall Redevelopment Traffic Impact Analysis prepared by Kittelson and Associates (March 2022). Project trip generation from the traffic study is based on the following Institute of Transportation Engineers (ITE) land use categories:
 - ITE Land Use 310: Hotel (270 rooms, 2,158 total daily vehicle trips).
 - ITE Land Use 221: Residential (1,627 dwelling units, 7,390 total daily vehicle trips).
 - ITE Land Use 820: Retail (24 thousand square feet, 876 daily vehicle trips).
 - ITE Land Use 710: Office (60 thousand square feet, 652 total daily vehicle trips).

The total Project would generate 11,076 daily trips. Mobile source emission rates in CalEEMod used the CARB SAFE Rule adjustment factors.

Emissions reductions attributable mitigation measures were applied in CalEEMod, are derived from methodologies compiled in the CAPCOA report Quantifying GHG Measures. Each measure was assessed to determine its consistency with CAPCOA criteria for the use of the measure. The following mitigation measure were applied in CalEEMod include:

- Transportation Demand Management Measures: TRT-1 (Implement Trip Reduction Program), TRT-3 (Provide Ride Sharing Program), and TRT-11 (Employee Vanpool/Shuttle). MM AQ-1 requires a TDM Program.
- A-1 - Electric Landscape Equipment. MM AQ-3 requires electric landscape equipment.
- Energy Efficiency Measures: BE-1 (Exceed Title 24) and BE-4 (Energy Efficient Appliances). MM GHG-1 requires the Project to comply with CALGreen Tier 2 and the mitigation requires a 20 percent improvement. MM GHG-2 requires energy efficient appliances.
- SW-1 (75 Percent Reduction in Solid Waste Disposal). This measure is required by MM GHG-3.

5 POTENTIAL IMPACTS AND MITIGATION

5.1 Greenhouse Gas Emissions

Threshold 5.1 Would the Project generate GHG emissions, either directly or indirectly, that could have a significant impact on the environment?

Short-Term Construction Greenhouse Gas Emissions

The Project would result in direct emissions of CO₂, N₂O, and CH₄ from construction equipment and the transport of materials and construction workers to and from the Project site. The GHG emissions only occur during temporary construction activities and would be cease once construction is complete. The total GHG emissions (in CO₂e) generated during construction are shown in [Table 2: Construction-Related Greenhouse Gas Emissions](#).

Category	MTCO ₂ e
2023 Construction	5,557
2024 Construction	7,961
2025 Construction	4,041
2026 Construction	2,545
<i>Total Construction Emissions</i>	<i>20,104</i>
30-Year Amortized Construction	670

Source: CalEEMod version 2020.4.0. Refer to [Appendix A](#) for model outputs.

As shown, the Project would result in the generation of approximately 20,104 MTCO₂e over the course of construction. Construction GHG emissions are typically summed and amortized over a 30-year period, then added to the operational emissions.⁹ The amortized Project construction emissions would be 670 MTCO₂e per year. Once construction is complete, the generation of these GHG emissions would cease.

Long-Term Operational Greenhouse Gas Emissions

Operational or long-term emissions occur over the life of the Project. GHG emissions would result from direct emissions such as Project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power, the energy required to convey water to, and wastewater from the Project, the emissions associated with solid waste generated from the Project, and any fugitive refrigerants from air conditioning or refrigerators.

Prior to issuance of a building permit, the City of Moreno Valley would review and verify that the Project plans demonstrate compliance with the current version of the Building and Energy Efficiency Standards.

⁹ The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13*, August 26, 2009).

The Project would also be required to adhere to the provisions of CALGreen, which establishes planning and design standards for sustainable site development, and energy efficiency. Construction activities would be required to monitor air quality emissions using applicable regulatory guidance such as the SCAQMD Rules.

GHG emissions associated with the Project are summarized in Table 3: Operational Greenhouse Gas Emissions. As shown in Table 3, the Project’s unmitigated emissions would be approximately 12,619 MTCO₂e annually from both construction and operations. Project-related GHG emissions would exceed the 3,000 MTCO₂e per year threshold. The majority of the GHG emissions are associated with non-construction related mobile sources. Emissions of motor vehicles are controlled by State and Federal standards, and the Project has no control over these standards.

Emissions Source	MTCO ₂ e per Year	
	Unmitigated	Mitigated
Construction Amortized Over 30 Years	670	670
Area Source ¹	28	20
Energy ²	5,448	4,363
Mobile ³	6,139	4,927
Solid Waste ⁴	492	123
Water and Wastewater	512	512
TOTAL	12,619	10,615
<i>Threshold</i>	<i>3,000</i>	<i>3,000</i>
Exceeds Threshold?	Yes	Yes

Note:
 1. Mitigation Measure AQ-4 and AQ-5 (refer to the Projects Air Quality Assessment) prohibit fireplaces of any type and requires electric landscaping equipment, which would reduce area source emissions.
 2. Mitigation Measures GHG-1 and GHG-2 require building energy efficiency and energy efficient appliances.
 3. Mitigation Measure AQ-3 (refer to the Projects Air Quality Assessment) requires implementation of a TDM program.
 4. Mitigation Measure GHG-3 requires a minimum of 75 percent solid waste diversion.

Source: CalEEMod version 2020.4.0. Refer to Appendix A for model outputs.

Additionally, **MM AQ-3** through **MM AQ-5** have been identified in the Project’s Air Quality Assessment to reduce operational emissions. **MM AQ-3** requires the implementation of a Transportation Demand Management (TDM) program to reduce single occupant vehicle trips and encourage transit. **MM AQ-4** prohibits the use of any kind of fireplaces, and **MM AQ-5** requires all landscaping equipment used onsite shall be 100 percent electrically powered.

Standard Conditions (SC) GHG-1 through SC GHG-4, as required by local, state, or federal regulations or laws. **MM GHG-1** requires the Project to meet or exceed CALGreen Tier 2 standards to further improve energy efficiency. **MM GHG-2** requires the residential projects to have energy efficient appliances. and **MM GHG-3** requires the Project to divert 75 percent of waste from landfills.

As shown in [Table 3](#), implementation of these mitigation measures and standard conditions would reduce GHG emissions to 10,615 MTCO₂e per year and the Project's emissions would still exceed the 3,000 MTCO₂e per year threshold. Additional mitigation to further reduce these emissions is not feasible. The TDM program required by **MM AQ-3** will reduce GHG emissions from commuting however additional mitigation to reduce the Project's mobile emissions is not feasible due to the limited ability of the City of Moreno Valley to address emissions resulting from mobile sources and/or emissions generated by cars and trucks outside of the City's limits. As with all land use projects, the Project's mobile and transportation related GHG emissions are a function of two parameters: emissions control technology and vehicle miles traveled (VMT).

CARB is directly responsible for regulating mobile and transportation source emissions in the State. Regarding the first parameter, California addresses emissions control technology through a variety of legislation and regulatory schemes, including the state's Low Carbon Fuel Standard (Executive Order S-01-07) (LCFS), a regulatory program designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. The regulatory standards are expressed in terms of the "carbon intensity" of gasoline and diesel fuel and their substitutes. Different types of fuels are evaluated to determine their "life cycle emissions" which include the emissions associated with producing, transporting, and using the fuels. Each fuel is then given a carbon intensity score and compared against a declining carbon intensity benchmark for each year. Providers of transportation fuels must demonstrate that the mix of fuels they supply for use in California meets these declining benchmarks for each annual compliance period. In 2018, CARB approved amendments to the LCFS, which strengthened the carbon intensity benchmarks through 2030 to ensure they are in-line with California's 2030 GHG emission reduction target enacted through SB 32. This ensures that the transportation sector is meeting its obligations to achieve California's GHG reduction targets. The state is also implementing legislation and regulations to address the second parameter affecting transportation related GHG emissions by controlling for VMT. Examples of this include SB 375, which links land use and transportation funding and provides one incentive for regions to achieve reductions in VMT, and SB 743, which discourages VMT increases for passenger car trips above a region-specific benchmark. However, the state has determined that VMT regulations are not applicable to heavy trucks, such as those that will utilize the proposed Project and generate the majority of the Project's GHG emissions.

As such, the City of Moreno Valley has no regulatory control over emissions control technology and therefore limited ability to control or mitigate emissions associated with mobile source emissions associated with this Project.

Additional mitigation to further reduce the Project's non-mobile emissions is also not feasible. The Project's mitigation measures and standard conditions address non-mobile emissions to extent possible, by designing buildings to provide environmental design features, incorporate energy and water conservation measures, and provide electrical, heating, ventilation, lighting, and power systems that meet CALGreen Standards (**MM GHG-1** requires the Project to meet or exceed CALGreen Tier 2 standards, which exceeds code requirements) and generate or purchase 20 percent of the Project's energy demand from renewable sources. The Project would also require all major appliances installed in the multi-family units and hotels be Energy Star certified or equivalent energy efficiency (**MM GHG-2**). Further, the project would divert 75 percent of solid waste from landfills (**MM GHG-3**) and require landscape equipment to be 100 percent electric (**MM AQ-5**).

The reliance on carbon offsets to reduce either the Project's mobile or non-mobile emissions is also not feasible, as no local programs are available that would meet CEQA's criteria for a valid mitigation measure. To reduce emissions, purchased offset credits must be genuine, quantifiable, additional, and verifiable. Even offset credits purchased from CARB-approved offset project registries have been determined to not adequately assure that purchased offset credits accurately and reliably represent actual emissions reductions or cannot guarantee that such reductions are additional to any reduction that would occur under business-as-usual operations and reductions required by law. Such offsets have been determined to not comply with CEQA's definition of a valid mitigation measure. See *Golden Door Properties, LLC v. County of San Diego* (2020) 50 Cal.App.5th 467.

The City of Moreno Valley, the lead agency for the Project and the entity responsible for enforcing any mitigation measures incorporated into the Project and relied upon to reduce impacts to a less than significant level, has no enforcement authority over offset credits that fund carbon reduction projects outside of the City. Many offset credits "sell" reductions in emissions generated outside of California, which may not be genuine or verifiable. International offsets are even more difficult to verify, guarantee and enforce. Even CARB does not have enforcement authority over such reductions, let alone the City of Moreno Valley. Thus, the purchase of offset credits is not a feasible mitigation measure to reduce the emissions impact of the proposed Project.

Therefore, despite the incorporation of all feasible mitigation measures, GHG emissions remain significant and unavoidable.

Standard Conditions and Requirements:

Standard Conditions are existing requirements and standard conditions that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical standard conditions and requirements include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because Standard Conditions are neither Project specific nor a result of development of the Project, they are not considered to be either Project Design Features or Mitigation Measures.

SC GHG-1 Require diesel powered construction equipment to turn off when not in use per Title 13 of the California Code of Regulations, Section 2449.

SC GHG-2 Install water-efficient irrigation systems and devices, such as bubblers, drip systems, low volume sprays and smart irrigation controls for landscaping according to the City's Landscape and Irrigation Design Standards (Chapter 9.17.030 of the City's Municipal Code).

SC GHG-3 The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15 percent of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

- SC GHG-4** The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:
- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with Section 4.303 (residential) and Section 5.303 (nonresidential) of the California Green Building Standards Code Part 11.
 - Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 4.408.1 (residential) and Section 5.408.1 (nonresidential) of the California Green Building Standards Code Part 11.
 - Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with Section 4.410 (residential) and Section 5.410 (nonresidential) of the California Green Building Standards Code Part 11.
 - Provide designated parking for any combination of low-emitting, fuel efficient and carpool/van pool vehicles. At least eight percent of the total parking spaces are required to be designated in accordance Section 5.106.5.2 (nonresidential), Designated Parking for Clean Air Vehicles, of the California Green Building Standards Code Part 11.
 - To facilitate future installation of electric vehicle supply equipment (EVSE), residential construction shall comply with Section 4.106.4 (residential electric vehicle charging) of the California Green Building Standards Code Part 11 and nonresidential construction shall comply with Section 5.106.5.3 (nonresidential electric vehicle charging) of the California Green Building Standards Code Part 11.

Mitigation Measures: Refer to **MM AQ-3** through **MM AQ-5** in the Air Quality Assessment. The following additional mitigation is also required.

- MM GHG-1** Prior to the issuance of a building permit, the Project Applicant shall provide documentation to the City of Moreno Valley demonstrating that the Project will meet or exceed 2019 CALGreen Tier 2 standards in order to exceed 2019 Title 24 energy efficiency standards by a minimum of 20 percent. In addition, the Project shall install solar photovoltaic (PV) panels or other source of renewable energy generation on-site, or otherwise acquire energy from the local utility that has been generated by renewable sources (for example, Southern California Edison Green Rate), such that 20 percent of the onsite energy consumption is offset.
- MM GHG-2** For residential projects, all major appliances (e.g., dishwashers, refrigerators, clothes washers and dryers, and water heaters) provided/installed shall be Energy Star certified or of equivalent energy efficiency where applicable. Prior to the issuance of the certificate of occupancy, the City of Moreno Valley shall verify implementation of this requirement.

MM GHG-3 The development shall divert a minimum of 75 percent of landfill waste. Prior to issuance of certificate of occupancy, a recyclables collection and load area shall be constructed in compliance with City standards for recyclable collection and loading areas.

Level of Significance: Significant and unavoidable impact. No additional feasible mitigation measures are available that can reduce impacts to less than significant. As explained above, the Project incorporates all feasible mitigation measures that could be implemented to further reduce the Project's GHG emissions below the 3,000 MTCO₂e threshold. Due to the Project's size and scope, there are no additional measures available that would reduce emissions below 3,000 MTCO₂e. Impacts would remain significant and unavoidable.

5.2 Greenhouse Gas Reduction Plan Compliance

Threshold 5.2 Would the Project conflict with an applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions?

SCAG RTP/SCS Consistency

On September 3, 2020, SCAG's Regional Council adopted *Connect SoCal (2020 – 2045 Regional Transportation Plan/Sustainable Communities Strategy [2020 RTP/SCS])*. The RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders in the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. SCAG's RTP/SCS establishes GHG emissions goals for automobiles and light-duty trucks for 2020 and 2035 as well as an overall GHG target for the Project region consistent with both the target date of AB 32 and the post-2020 GHG reduction goals of Executive Orders 5-03-05 and B-30-15.

The RTP/SCS contains over 4,000 transportation projects, ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs and replacement bridges. These future investments were included in county plans developed by the six county transportation commissions and seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices for everyone. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding.

The plan accounts for operations and maintenance costs to ensure reliability, longevity, and cost effectiveness. The RTP/SCS is also supported by a combination of transportation and land use strategies that help the region achieve state GHG emissions reduction goals and Federal Clean Air Act (FCAA) requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry, and utilize resources more efficiently. GHG emissions resulting from development-related mobile sources are the most potent source of emissions, and therefore Project comparison to the RTP/SCS is an appropriate indicator of whether the Project would inhibit the post-2020 GHG reduction goals promulgated by the state. The Project's consistency with the RTP/SCS goals is analyzed in detail in [Table 4: Regional Transportation Plan/Sustainable Communities Strategy Consistency](#).

Table 4: Regional Transportation Plan/Sustainable Communities Strategy Consistency	
SCAG Goals	Compliance
GOAL 1: Encourage regional economic prosperity and global competitiveness.	N/A: This is not a project-specific policy and is therefore not applicable. However, the Project will revitalize the Moreno Valley Mall and would contribute to regional economic prosperity.
GOAL 2: Improve mobility, accessibility, reliability, and travel safety for people and goods.	Consistent: Although this Project is not a transportation improvement project, the Project is located near existing transit routes on I-215 and SR-60.
GOAL 3: Enhance the preservation, security, and resilience of the regional transportation system.	N/A: This is not a transportation improvement project and is therefore not applicable.
GOAL 4: Increase person and goods movement and travel choices within the transportation system.	N/A: This is not a transportation improvement project and is therefore not applicable.
GOAL 5: Reduce greenhouse gas emissions and improve air quality.	Consistent: The Project is located within an urban area in proximity to existing transportation routes and freeways. Location of the project within a developed area would reduce trip lengths, which would reduce GHG and air quality emissions.
GOAL 6: Support healthy and equitable communities	Consistent: Although the Project exceeds regional thresholds for criteria pollutants, the Project does not exceed localized thresholds. Based on the Friant Ranch decision, projects that do not exceed the SCAQMD's LSTs would not violate any air quality standards or contribute substantially to an existing or projected air quality violation and result in no criteria pollutant health impacts.
GOAL 7: Adapt to a changing climate and support an integrated regional development pattern and transportation network.	N/A: This is not a project-specific policy and is therefore not applicable.
GOAL 8: Leverage new transportation technologies and data-driven solutions that result in more efficient travel.	N/A: This is not a project-specific policy and is therefore not applicable.
GOAL 9: Encourage development of diverse housing types in areas that are supported by multiple transportation options.	Consistent: The Project involves development of a mix of uses (commercial and residential) that would provide diverse housing options that would be served by Riverside Transit Authority (RTA).
GOAL 10: Promote conservation of natural and agricultural lands and restoration of habitats.	N/A: This Project is located within an urban area and is not located on agricultural lands.
Source: Southern California Association of Governments, <i>Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy, 2020.</i>	

Compliance with applicable State standards would ensure consistency with State and regional GHG reduction planning efforts. The goals stated in the RTP/SCS were used to determine consistency with the planning efforts previously stated. As shown in [Table 4](#), the proposed Project would be consistent with the stated goals of the RTP/SCS. Therefore, the proposed Project would not result in any significant

impacts or interfere with SCAG’s ability to achieve the region’s post-2020 mobile source GHG reduction targets.

Consistency with the CARB Scoping Plan

The California State Legislature adopted Assembly Bill (AB) 32 in 2006. AB 32 focuses on reducing GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) to 1990 levels by the year 2020. Pursuant to the requirements in AB 32, CARB adopted the *Climate Change Scoping Plan* (Scoping Plan) in 2008, which outlines actions recommended to obtain that goal. The Scoping Plan provides a range of GHG reduction actions that include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as the cap-and-trade program, and an AB 32 implementation fee to fund the program.

The 2017 Scoping Plan Update identifies additional GHG reduction measures necessary to achieve the 2030 target. These measures build upon those identified in the first update to the Scoping Plan in 2013. Although a number of these measures are currently established as policies and measures, some measures have not yet been formally proposed or adopted. It is expected that these actions to reduce GHG emissions will be adopted as required to achieve statewide GHG emissions targets. As shown in [Table 5: Project Consistency with Applicable CARB Scoping Plan Measures](#), the Project is consistent with most of the strategies, while others are not applicable to the Project. As such, impacts related to consistency with the Scoping Plan would be less than significant.

Table 5: Project Consistency with Applicable CARB Scoping Plan Measures			
Scoping Plan Sector	Scoping Plan Measure	Implementing Regulations	Project Consistency
Transportation	California Cap-and-Trade Program Linked to Western Climate Initiative	Regulation for the California Cap on GHG Emissions and Market-Based Compliance Mechanism October 20, 2015 (CCR 95800)	Consistent. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers. However, the regulation indirectly affects people who use the products and services produced by these industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects’ electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and combustion of other fossil fuels not directly covered at large sources in the Program’s first compliance period.
	California Light-Duty Vehicle GHG Standards	Pavley I 2005 Regulations to Control GHG Emissions from Motor Vehicles Pavley I 2005 Regulations to Control GHG Emissions from Motor Vehicles	Consistent. This measure applies to all new vehicles starting with model year 2012. The Project would not conflict with its implementation as it would apply to all new passenger vehicles purchased in California. Passenger vehicles, model year 2012 and later, associated with construction and operation of the Project would benefit from implementation of the Pavley emissions standards.

Scoping Plan Sector	Scoping Plan Measure	Implementing Regulations	Project Consistency
		2012 LEV III California GHG and Criteria Pollutant Exhaust and Evaporative Emission Standards	Consistent. The LEV III amendments provide reductions from new vehicles sold in California between 2017 and 2025. Passenger vehicles associated with the site would comply with LEV III standards.
	Low Carbon Fuel Standard	2009 readopted in 2015. Regulations to Achieve GHG Emission Reductions Subarticle 7. Low Carbon Fuel Standard CCR 95480	Consistent. This measure applies to transportation fuels utilized by vehicles in California. The Project would not conflict with implementation of this measure. Motor vehicles associated with construction and operation of the Project would utilize low carbon transportation fuels as required under this measure.
	Regional Transportation-Related GHG Targets.	SB 375. Cal. Public Resources Code §§ 21155, 21155.1, 21155.2, 21159.28	Consistent. The Project would provide development in the region that is consistent with the growth projections in the RTP/SCS.
	Goods Movement	Goods Movement Action Plan January 2007	Not applicable. The Project does not propose any changes to maritime, rail, or intermodal facilities or forms of transportation.
	Medium/Heavy-Duty Vehicle	2010 Amendments to the Truck and Bus Regulation, the Drayage Truck Regulation and the Tractor-Trailer GHG Regulation	Consistent. This measure applies to medium and heavy-duty vehicles that operate in the state. The Project would not conflict with implementation of this measure.
	High Speed Rail	Funded under SB 862	Not applicable. This is a statewide measure that cannot be implemented by a project applicant or Lead Agency.
Electricity and Natural Gas	Energy Efficiency	Title 20 Appliance Efficiency Regulation	Consistent. The Project would not conflict with implementation of this measure. The Project would comply with the latest energy efficiency standards.
		Title 24 Part 6 Energy Efficiency Standards for Residential and Non-Residential Building	
		Title 24 Part 11 California Green Building Code Standards	
	Renewable Portfolio Standard/Renewable Electricity Standard.	2010 Regulation to Implement the Renewable Electricity Standard (33% 2020)	Consistent. The Project would obtain electricity from the electric utility, Southern California Edison (SCE). SCE obtained 30.9 percent of its power supply from renewable sources in 2020 and include 50 percent and 100 percent renewable Green Rate options. Therefore, the utility would provide power when needed on site that is composed of a greater percentage of renewable sources.
	Million Solar Roofs Program	SB 350 Clean Energy and Pollution Reduction Act of 2015 (50% 2030)	
	Million Solar Roofs Program	Tax Incentive Program	
Water	Water	Title 24 Part 11 California Green	Consistent. The Project would comply with the CalGreen standards, which requires a 20 percent

Table 5: Project Consistency with Applicable CARB Scoping Plan Measures			
Scoping Plan Sector	Scoping Plan Measure	Implementing Regulations	Project Consistency
		Building Code Standards	reduction in indoor water use. The Project would also comply with the City's Water-Efficient Landscaping Regulations (Chapter 9.17.030 of the Moreno Valley Municipal Code).
		SBX 7-7—The Water Conservation Act of 2009	
		Model Water Efficient Landscape Ordinance	
Green Buildings	Green Building Strategy	Title 24 Part 11 California Green Building Code Standards	Consistent. The State is to increase the use of green building practices. The Project would implement required green building strategies through existing regulation that requires the Project to comply with various CALGreen requirements.
Industry	Industrial Emissions	2010 CARB Mandatory Reporting Regulation	Not applicable. The Mandatory Reporting Regulation requires facilities and entities with more than 10,000 MTCO ₂ e of combustion and process emissions, all facilities belonging to certain industries, and all electric power entities to submit an annual GHG emissions data report directly to CARB. As shown above, although total Project GHG emissions would exceed 10,000 MTCO ₂ e, the project is not considered a "facility" and the majority of these emissions are from mobile sources. Therefore, this regulation would not apply.
Recycling and Waste Management	Recycling and Waste	Title 24 Part 11 California Green Building Code Standards	Consistent. The Project would not conflict with implementation of these measures. The Project is required to achieve the recycling mandates via compliance with the CALGreen code.
		AB 341 Statewide 75 Percent Diversion Goal	
Forests	Sustainable Forests	Cap and Trade Offset Projects	Not applicable. The Project is not located in a forested area.
High Global Warming Potential	High Global Warming Potential Gases	CARB Refrigerant Management Program CCR 95380	Not applicable. The regulations are applicable to refrigerants used by large air conditioning systems and large commercial and industrial refrigerators and cold storage system. The Project would not conflict with the refrigerant management regulations adopted by CARB.
Agriculture	Agriculture	Cap and Trade Offset Projects for Livestock and Rice Cultivation	Not applicable. The Project is located in an urban area. No grazing, feedlot, or other agricultural activities that generate manure occur currently exist on-site or are proposed to be implemented by the Project.
Source: California Air Resources Board, <i>California's 2017 Climate Change Scoping Plan</i> , November 2017 and CARB, <i>Climate Change Scoping Plan</i> , December 2008.			

As seen in [Table 4](#) and [Table 5](#), the Project would be consistent with all applicable plan goals. The proposed Project would be subject to compliance with all building codes in effect at the time of construction, which include energy conservation measures mandated by California Building Standards Code Title 24 – Energy Efficiency Standards. Because Title 24 standards require energy conservation features in new construction (e.g., high-efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures), they indirectly regulate and reduce GHG emissions. California's Building Energy Efficiency Standards are updated on an approximately three-year cycle.

As noted above, the largest portion of the Project's emissions are from mobile sources. It is noted that the City has no control over vehicle emissions. Project emissions would be further reduced by implementation of the 2017 Scoping Plan measures. These emissions would decline in the future due to statewide measures including the reduction in fuels' carbon content, CARB's advanced clean car program, CARB's mobile source strategy, fuel efficiency standards, cleaner technology, and fleet turnover. SCAG's 2020 RTP/SCS is also expected to help California reach its GHG reduction goals, with reductions in per capita transportation emissions of 19 percent by 2035.¹⁰ The Project includes a mix of residential and commercial land uses that would potentially reducing the need to travel long distances for some residents and reducing associated GHG emissions.¹¹

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it can be anticipated that operation of the proposed Project would benefit from the implementation of current and potential future regulations (e.g., improvements in vehicle emissions, SB 100/renewable electricity portfolio improvements, etc.) enacted to meet an 80 percent reduction below 1990 levels by 2050.

The majority of the GHG reductions from the Scoping Plan would result from continuation of the Cap-and-Trade regulation. Assembly Bill 398 (2017) extends the state's Cap-and-Trade program through 2030 and the Scoping Plan provide a comprehensive plan for the state to achieve its GHG targets through a variety of regulations enacted at the state level. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply 60 percent renewable electricity by 2030 and 100 percent renewable by 2045), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the Mobile Source Strategy and Sustainable Freight Action Plan.

In conclusion, the Project does not conflict with the applicable plans that are discussed above and therefore with respect to this particular threshold, the Project does not have a significant impact. However, despite plan consistency, the Project's long-term operational GHG emissions would exceed the City's significance threshold of 3,000 MTCO_{2e} per year despite the implementation of **MM AQ-3** through **MM AQ-5** in the Air Quality Assessment and **MM GHG-1** through **MM GHG-3**, thus the Project could impede California's statewide GHG reduction goals for 2030 and 2050. A potentially significant impact would therefore occur as a result of the proposed Project.

Mitigation Measures: Refer to **MM AQ-3** through **MM AQ-5** in the Air Quality Assessment and **MM GHG-1** through **MM GHG-3**, above.

Level of Significance: Significant and unavoidable impact. No additional feasible mitigation measures are available that can reduce impacts to less than significant.

¹⁰ California Air Resources Board, *SB 375 Regional Plan Climate Targets*, <https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets>

¹¹ The California Air Pollution Control Officers Association, *Quantifying Greenhouse Gas Mitigation Measures* (August 2010) identifies that infill developments, such as the proposed Project reduce vehicle miles traveled which reduces fuel consumption. Infill projects such as the proposed Project would have an improved location efficiency.

5.3 Cumulative Setting, Impacts, and Mitigation Measures

Cumulative Setting

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about 1 day), GHGs have much longer atmospheric lifetimes of 1 year to several thousand years that allow them to be dispersed around the globe.

Cumulative Impacts

It is generally the case that an individual project of this size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of Project-related GHGs would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. As discussed above, the Project-related GHG emissions would exceed the City's 3,000 MTCO₂e threshold of significance despite implementation of **MM AQ-3** through **MM AQ-5** from the Air Quality Assessment and **MM GHG-1** through **MM GHG-3** and could impede statewide 2030 and 2050 GHG emission reduction targets. As such, the Project would result in a potentially significant cumulative GHG impact.

Mitigation Measures: Refer to **MM AQ-3** through **MM AQ-5** in the Air Quality Assessment and **MM GHG-1** through **MM GHG-3**, above.

Level of Significance: Significant and unavoidable impact. No additional feasible mitigation measures are available that can reduce impacts to less than significant.

6 REFERENCES

1. California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, 2017.
2. City of Moreno Valley, *Climate Action Plan*, March 2021
3. City of Moreno Valley, *General Plan 2040*, April 2021
4. Hanna Partners, *Concept Parcel Plan*, February 2022
5. Intergovernmental Panel on Climate Change, *Climate Change 2007: The Physical Science Basis*, 2007.
6. Intergovernmental Panel on Climate Change, *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2013.
7. Kittelson & Associates, *Moreno Valley Mall Redevelopment Traffic Impact Analysis*, March 2022.
8. National Research Council, *Advancing the Science of Climate Change*, 2010.
9. San Bernardino County Transportation Authority, *San Bernardino County Regional Greenhouse Gas Reduction Plan*, March 2014.
10. State of California, *Code of Regulations Section 15065.5a*, 2018.
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12. South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13*, 2009.
13. U.S. EPA, *Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016*, 2018.
14. U.S. EPA, *Methane and Nitrous Oxide Emission from Natural Sources*, 2010.
15. U.S. EPA, *Overview of Greenhouse Gases*, 2018.

Appendix A

Greenhouse Gas Emissions Data

Construction Only Modeling

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

Moreno Valley Mall - Construction Only - no mitigation

Riverside-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	60.00	1000sqft	1.38	60,000.00	0
Enclosed Parking with Elevator	531.00	Space	4.78	212,400.00	0
Enclosed Parking with Elevator	701.00	Space	6.31	280,400.00	0
Parking Lot	392.68	1000sqft	9.01	392,677.00	0
Parking Lot	175.83	1000sqft	4.04	175,833.00	0
City Park	1.48	Acre	1.48	64,468.80	0
Hotel	270.00	Room	9.00	392,040.00	0
Apartments Mid Rise	596.00	Dwelling Unit	15.68	596,000.00	1705
Apartments Mid Rise	1,031.00	Dwelling Unit	27.13	1,031,000.00	2949
Strip Mall	774.76	1000sqft	17.79	774,764.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Areas from site plan. Parking Lot includes surface parking, drive aisles, and walkways. City Park includes landscaped areas

Construction Phase - anticipated schedule

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

Trips and VMT - onsite borrow site 0.5 mile, construction debris 10.2 miles, concrete asphalt 30.1 miles

Demolition -

Grading -

Architectural Coating - anticipated schedule. SCAQMD Rule 1113

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	387,382.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	30,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	196,020.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	1,162,146.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	90,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	588,060.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	59,939.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	10,550.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	40,385.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	695,925.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	402,300.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	2,087,775.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	1,206,900.00

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	110.00	65.00
tblConstructionPhase	NumDays	110.00	195.00
tblConstructionPhase	NumDays	110.00	285.00
tblConstructionPhase	NumDays	1,550.00	580.00
tblConstructionPhase	NumDays	1,550.00	499.00
tblConstructionPhase	NumDays	1,550.00	163.00
tblConstructionPhase	NumDays	100.00	65.00
tblConstructionPhase	NumDays	100.00	33.00
tblConstructionPhase	NumDays	100.00	32.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	155.00	67.00
tblConstructionPhase	NumDays	110.00	43.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	220.00
tblConstructionPhase	NumDays	60.00	33.00
tblConstructionPhase	NumDays	60.00	65.00
tblConstructionPhase	NumDays	60.00	32.00
tblGrading	MaterialExported	0.00	6,000.00
tblGrading	MaterialExported	0.00	2,000.00
tblGrading	MaterialExported	0.00	700.00

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

tblLandUse	LandUseSquareFeet	175,830.00	175,833.00
tblLandUse	LandUseSquareFeet	392,680.00	392,677.00
tblLandUse	LandUseSquareFeet	774,760.00	774,764.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	16.80
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	30.10
tblTripsAndVMT	HaulingTripLength	20.00	0.50

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	2.5533	10.2448	18.2306	0.0593	5.7854	0.3343	6.1197	1.8191	0.3116	2.1307	0.0000	5,456.0936	5,456.0936	0.3576	0.3079	5,556.7940
2024	4.8077	11.7714	25.0377	0.0847	7.6736	0.3357	8.0093	2.1489	0.3141	2.4631	0.0000	7,816.3649	7,816.3649	0.4019	0.4508	7,960.7380
2025	5.2762	5.0004	11.9585	0.0429	3.8446	0.1183	3.9629	1.0315	0.1114	1.1429	0.0000	3,967.1381	3,967.1381	0.1532	0.2344	4,040.8243
2026	1.8347	3.3956	7.4731	0.0270	2.3948	0.0847	2.4795	0.6430	0.0795	0.7225	0.0000	2,498.1925	2,498.1925	0.1104	0.1488	2,545.2985
Maximum	5.2762	11.7714	25.0377	0.0847	7.6736	0.3357	8.0093	2.1489	0.3141	2.4631	0.0000	7,816.3649	7,816.3649	0.4019	0.4508	7,960.7380

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

2.1 Overall Construction

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	2.5533	10.2448	18.2306	0.0593	4.6350	0.3343	4.9693	1.3560	0.3116	1.6676	0.0000	5,456.0925	5,456.0925	0.3576	0.3079	5,556.7928
2024	4.8077	11.7714	25.0376	0.0847	6.7287	0.3357	7.0644	1.8529	0.3141	2.1670	0.0000	7,816.3637	7,816.3637	0.4019	0.4508	7,960.7367
2025	5.2762	5.0004	11.9585	0.0429	3.5512	0.1183	3.6694	0.9595	0.1114	1.0708	0.0000	3,967.1376	3,967.1376	0.1532	0.2344	4,040.8239
2026	1.8347	3.3956	7.4731	0.0270	2.2123	0.0847	2.2970	0.5982	0.0795	0.6777	0.0000	2,498.1922	2,498.1922	0.1104	0.1488	2,545.2982
Maximum	5.2762	11.7714	25.0376	0.0847	6.7287	0.3357	7.0644	1.8529	0.3141	2.1670	0.0000	7,816.3637	7,816.3637	0.4019	0.4508	7,960.7367

	ROG	NOx	CO	SO2	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	13.05	0.00	12.50	15.52	0.00	13.56	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	6.0158	6.0158
2	4-1-2023	6-30-2023	3.9467	3.9467
3	7-1-2023	9-30-2023	4.5333	4.5333
4	10-1-2023	12-31-2023	6.1587	6.1587
5	1-1-2024	3-31-2024	8.0982	8.0982
6	4-1-2024	6-30-2024	8.2146	8.2146
7	7-1-2024	9-30-2024	7.5032	7.5032
8	10-1-2024	12-31-2024	6.5329	6.5329

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

9	1-1-2025	3-31-2025	1.5019	1.5019
10	4-1-2025	6-30-2025	1.9987	1.9987
11	7-1-2025	9-30-2025	3.2608	3.2608
12	10-1-2025	12-31-2025	3.5112	3.5112
13	1-1-2026	3-31-2026	2.8953	2.8953
14	4-1-2026	6-30-2026	1.4139	1.4139
15	7-1-2026	9-30-2026	0.9447	0.9447
		Highest	8.2146	8.2146

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	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Energy	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	7,227.0111	7,227.0111	0.4407	0.0950	7,266.3273
Mobile	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297
Waste						0.0000	0.0000		0.0000	0.0000	358.4151	0.0000	358.4151	21.1817	0.0000	887.9581
Water						0.0000	0.0000		0.0000	0.0000	57.3935	636.5832	693.9766	5.9486	0.1457	886.1109
Total	38.7450	24.9741	181.3322	0.3894	35.9752	3.6427	39.6179	9.6089	3.6262	13.2351	761.4454	38,283.4470	39,044.8924	30.3507	1.8436	40,353.0587

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Energy	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	7,227.0111	7,227.0111	0.4407	0.0950	7,266.3273
Mobile	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297
Waste						0.0000	0.0000		0.0000	0.0000	358.4151	0.0000	358.4151	21.1817	0.0000	887.9581
Water						0.0000	0.0000		0.0000	0.0000	57.3935	636.5832	693.9766	5.9486	0.1457	886.1109
Total	38.7450	24.9741	181.3322	0.3894	35.9752	3.6427	39.6179	9.6089	3.6262	13.2351	761.4454	38,283.4470	39,044.8924	30.3507	1.8436	40,353.0587

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	4/1/2023	5	65	
2	Site Preparation	Site Preparation	1/1/2023	4/1/2023	5	65	
3	Building Construction	Building Construction	2/1/2023	12/30/2024	5	499	

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

4	Grading	Grading	3/1/2023	6/1/2023	5	67
5	Demolition S2	Demolition	7/1/2023	8/15/2023	5	32
6	Site Preparation S2	Site Preparation	7/1/2023	8/15/2023	5	32
7	Building Construction S2	Building Construction	9/1/2023	4/16/2024	5	163
8	Architectural Coating	Architectural Coating	10/1/2023	11/1/2024	5	285
9	Paving	Paving	11/1/2023	9/3/2024	5	220
10	Paving S2	Paving	12/1/2023	1/30/2024	5	43
11	Demolition S3	Demolition	3/20/2024	5/4/2024	5	33
12	Site Preparation S3	Site Preparation	3/20/2024	5/4/2024	5	33
13	Grading S3	Grading	4/15/2024	6/15/2024	5	45
14	Building Construction S3	Building Construction	6/12/2024	9/1/2026	5	580
15	Architectural Coating S2	Architectural Coating	11/2/2024	2/1/2025	5	65
16	Architectural Coating S3	Architectural Coating	6/1/2025	3/1/2026	5	195
17	Paving S3	Paving	10/29/2025	4/14/2026	5	120

Acres of Grading (Site Preparation Phase): 97.5

Acres of Grading (Grading Phase): 201

Acres of Paving: 24.14

Residential Indoor: 1,206,900; Residential Outdoor: 402,300; Non-Residential Indoor: 588,060; Non-Residential Outdoor: 196,020; Striped Parking Area: 40,385 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition S2	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition S2	Excavators	3	8.00	158	0.38
Demolition S2	Rubber Tired Dozers	2	8.00	247	0.40

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

Demolition S3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition S3	Excavators	3	8.00	158	0.38
Demolition S3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation S2	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation S2	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation S3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation S3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading S3	Excavators	2	8.00	158	0.38
Grading S3	Graders	1	8.00	187	0.41
Grading S3	Rubber Tired Dozers	1	8.00	247	0.40
Grading S3	Scrapers	2	8.00	367	0.48
Grading S3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction S2	Cranes	1	7.00	231	0.29
Building Construction S2	Forklifts	3	8.00	89	0.20
Building Construction S2	Generator Sets	1	8.00	84	0.74
Building Construction S2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction S2	Welders	1	8.00	46	0.45

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

Building Construction S3	Cranes	1	7.00	231	0.29
Building Construction S3	Forklifts	3	8.00	89	0.20
Building Construction S3	Generator Sets	1	8.00	84	0.74
Building Construction S3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction S3	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving S2	Pavers	2	8.00	130	0.42
Paving S2	Paving Equipment	2	8.00	132	0.36
Paving S2	Rollers	2	8.00	80	0.38
Paving S3	Pavers	2	8.00	130	0.42
Paving S3	Paving Equipment	2	8.00	132	0.36
Paving S3	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating S2	Air Compressors	1	6.00	78	0.48
Architectural Coating S3	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	188.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Demolition S2	6	15.00	0.00	430.00	14.70	6.90	30.10	LD_Mix	HDT_Mix	HHDT
Demolition S3	6	15.00	0.00	1,306.00	14.70	6.90	16.80	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation S2	7	18.00	0.00	750.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Site Preparation S3	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	250.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT

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

Grading S3	8	20.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction S?	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction S?	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving S2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving S3	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	415.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating S?	1	415.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating S?	1	415.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

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					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6982	0.6384	1.2600e-003		0.0324	0.0324		0.0302	0.0302	0.0000	110.4742	110.4742	0.0309	0.0000	111.2477
Total	0.0738	0.6982	0.6384	1.2600e-003	0.0205	0.0324	0.0529	3.1000e-003	0.0302	0.0333	0.0000	110.4742	110.4742	0.0309	0.0000	111.2477

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	2.2000e-004	0.0119	2.8200e-003	6.0000e-005	2.0300e-003	1.4000e-004	2.1700e-003	5.6000e-004	1.4000e-004	6.9000e-004	0.0000	6.1885	6.1885	9.0000e-005	9.8000e-004	6.4813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.1700e-003	0.0153	4.0000e-005	5.3600e-003	3.0000e-005	5.3800e-003	1.4200e-003	2.0000e-005	1.4500e-003	0.0000	4.0748	4.0748	1.0000e-004	1.1000e-004	4.1096
Total	1.8000e-003	0.0131	0.0181	1.0000e-004	7.3900e-003	1.7000e-004	7.5500e-003	1.9800e-003	1.6000e-004	2.1400e-003	0.0000	10.2633	10.2633	1.9000e-004	1.0900e-003	10.5908

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9900e-003	0.0000	7.9900e-003	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6982	0.6384	1.2600e-003		0.0324	0.0324		0.0302	0.0302	0.0000	110.4741	110.4741	0.0309	0.0000	111.2476
Total	0.0738	0.6982	0.6384	1.2600e-003	7.9900e-003	0.0324	0.0404	1.2100e-003	0.0302	0.0314	0.0000	110.4741	110.4741	0.0309	0.0000	111.2476

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	2.2000e-004	0.0119	2.8200e-003	6.0000e-005	1.8900e-003	1.4000e-004	2.0300e-003	5.2000e-004	1.4000e-004	6.6000e-004	0.0000	6.1885	6.1885	9.0000e-005	9.8000e-004	6.4813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.1700e-003	0.0153	4.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	4.0748	4.0748	1.0000e-004	1.1000e-004	4.1096
Total	1.8000e-003	0.0131	0.0181	1.0000e-004	6.8300e-003	1.7000e-004	7.0000e-003	1.8400e-003	1.6000e-004	2.0000e-003	0.0000	10.2633	10.2633	1.9000e-004	1.0900e-003	10.5908

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.3 Site Preparation - 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					0.6389	0.0000	0.6389	0.3283	0.0000	0.3283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.8945	0.5929	1.2400e-003		0.0412	0.0412		0.0379	0.0379	0.0000	108.7148	108.7148	0.0352	0.0000	109.5938
Total	0.0864	0.8945	0.5929	1.2400e-003	0.6389	0.0412	0.6800	0.3283	0.0379	0.3662	0.0000	108.7148	108.7148	0.0352	0.0000	109.5938

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315
Total	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.3 Site Preparation - 2023

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					0.2492	0.0000	0.2492	0.1281	0.0000	0.1281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.8945	0.5929	1.2400e-003		0.0412	0.0412		0.0379	0.0379	0.0000	108.7146	108.7146	0.0352	0.0000	109.5937
Total	0.0864	0.8945	0.5929	1.2400e-003	0.2492	0.0412	0.2903	0.1281	0.0379	0.1659	0.0000	108.7146	108.7146	0.0352	0.0000	109.5937

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315
Total	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8477	275.8477	0.0656	0.0000	277.4881
Total	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8477	275.8477	0.0656	0.0000	277.4881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0722	2.2848	0.9103	0.0117	0.4210	0.0190	0.4400	0.1215	0.0182	0.1396	0.0000	1,121.2213	1,121.2213	0.0113	0.1658	1,170.9102
Worker	0.8014	0.5937	7.7347	0.0225	2.7153	0.0129	2.7282	0.7210	0.0119	0.7329	0.0000	2,064.9244	2,064.9244	0.0515	0.0548	2,082.5522
Total	0.8736	2.8785	8.6449	0.0342	3.1363	0.0319	3.1682	0.8425	0.0301	0.8726	0.0000	3,186.1458	3,186.1458	0.0629	0.2206	3,253.4624

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2023

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	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8473	275.8473	0.0656	0.0000	277.4878
Total	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8473	275.8473	0.0656	0.0000	277.4878

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0722	2.2848	0.9103	0.0117	0.3942	0.0190	0.4132	0.1149	0.0182	0.1331	0.0000	1,121.2213	1,121.2213	0.0113	0.1658	1,170.9102
Worker	0.8014	0.5937	7.7347	0.0225	2.5034	0.0129	2.5163	0.6690	0.0119	0.6809	0.0000	2,064.9244	2,064.9244	0.0515	0.0548	2,082.5522
Total	0.8736	2.8785	8.6449	0.0342	2.8976	0.0319	2.9295	0.7839	0.0301	0.8140	0.0000	3,186.1458	3,186.1458	0.0629	0.2206	3,253.4624

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5631	302.5631	0.0716	0.0000	304.3518
Total	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5631	302.5631	0.0716	0.0000	304.3518

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0780	2.5058	0.9869	0.0126	0.4617	0.0207	0.4824	0.1332	0.0198	0.1530	0.0000	1,210.6331	1,210.6331	0.0129	0.1787	1,264.2178
Worker	0.8203	0.5795	7.9327	0.0239	2.9777	0.0135	2.9912	0.7907	0.0124	0.8031	0.0000	2,192.7759	2,192.7759	0.0513	0.0558	2,210.6980
Total	0.8983	3.0853	8.9196	0.0365	3.4394	0.0342	3.4736	0.9239	0.0322	0.9561	0.0000	3,403.4090	3,403.4090	0.0641	0.2346	3,474.9158

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

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	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5627	302.5627	0.0716	0.0000	304.3514
Total	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5627	302.5627	0.0716	0.0000	304.3514

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0780	2.5058	0.9869	0.0126	0.4323	0.0207	0.4529	0.1260	0.0198	0.1458	0.0000	1,210.6331	1,210.6331	0.0129	0.1787	1,264.2178
Worker	0.8203	0.5795	7.9327	0.0239	2.7453	0.0135	2.7589	0.7337	0.0124	0.7461	0.0000	2,192.7759	2,192.7759	0.0513	0.0558	2,210.6980
Total	0.8983	3.0853	8.9196	0.0365	3.1776	0.0342	3.2118	0.8596	0.0322	0.8919	0.0000	3,403.4090	3,403.4090	0.0641	0.2346	3,474.9158

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.5 Grading - 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					0.3085	0.0000	0.3085	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1113	1.1563	0.9397	2.0800e-003		0.0477	0.0477		0.0439	0.0439	0.0000	182.6930	182.6930	0.0591	0.0000	184.1701
Total	0.1113	1.1563	0.9397	2.0800e-003	0.3085	0.0477	0.3562	0.1224	0.0439	0.1663	0.0000	182.6930	182.6930	0.0591	0.0000	184.1701

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	1.6000e-004	2.8600e-003	2.3500e-003	1.0000e-005	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5322	0.5322	1.0000e-005	8.0000e-005	0.5574
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6100e-003	0.0210	6.0000e-005	7.3600e-003	4.0000e-005	7.4000e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.6002	5.6002	1.4000e-004	1.5000e-004	5.6480
Total	2.3300e-003	4.4700e-003	0.0233	7.0000e-005	7.4200e-003	5.0000e-005	7.4600e-003	1.9800e-003	4.0000e-005	2.0100e-003	0.0000	6.1324	6.1324	1.5000e-004	2.3000e-004	6.2054

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.5 Grading - 2023

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					0.1203	0.0000	0.1203	0.0477	0.0000	0.0477	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1113	1.1563	0.9397	2.0800e-003		0.0477	0.0477		0.0439	0.0439	0.0000	182.6927	182.6927	0.0591	0.0000	184.1699
Total	0.1113	1.1563	0.9397	2.0800e-003	0.1203	0.0477	0.1680	0.0477	0.0439	0.0916	0.0000	182.6927	182.6927	0.0591	0.0000	184.1699

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	1.6000e-004	2.8600e-003	2.3500e-003	1.0000e-005	5.0000e-005	1.0000e-005	6.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5322	0.5322	1.0000e-005	8.0000e-005	0.5574
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6100e-003	0.0210	6.0000e-005	6.7900e-003	4.0000e-005	6.8200e-003	1.8100e-003	3.0000e-005	1.8500e-003	0.0000	5.6002	5.6002	1.4000e-004	1.5000e-004	5.6480
Total	2.3300e-003	4.4700e-003	0.0233	7.0000e-005	6.8400e-003	5.0000e-005	6.8800e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	6.1324	6.1324	1.5000e-004	2.3000e-004	6.2054

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.6 Demolition S2 - 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					0.0468	0.0000	0.0468	7.0800e-003	0.0000	7.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3438	0.3143	6.2000e-004		0.0160	0.0160		0.0149	0.0149	0.0000	54.3873	54.3873	0.0152	0.0000	54.7681
Total	0.0363	0.3438	0.3143	6.2000e-004	0.0468	0.0160	0.0627	7.0800e-003	0.0149	0.0219	0.0000	54.3873	54.3873	0.0152	0.0000	54.7681

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	5.5000e-004	0.0318	6.9500e-003	1.7000e-004	5.5800e-003	3.9000e-004	5.9700e-003	1.5300e-003	3.7000e-004	1.9000e-003	0.0000	16.9105	16.9105	2.4000e-004	2.6600e-003	17.7105
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.8000e-004	7.5100e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	2.0061	2.0061	5.0000e-005	5.0000e-005	2.0232
Total	1.3300e-003	0.0324	0.0145	1.9000e-004	8.2200e-003	4.0000e-004	8.6200e-003	2.2300e-003	3.8000e-004	2.6100e-003	0.0000	18.9165	18.9165	2.9000e-004	2.7100e-003	19.7337

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.6 Demolition S2 - 2023

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					0.0182	0.0000	0.0182	2.7600e-003	0.0000	2.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3438	0.3143	6.2000e-004		0.0160	0.0160		0.0149	0.0149	0.0000	54.3872	54.3872	0.0152	0.0000	54.7680
Total	0.0363	0.3438	0.3143	6.2000e-004	0.0182	0.0160	0.0342	2.7600e-003	0.0149	0.0176	0.0000	54.3872	54.3872	0.0152	0.0000	54.7680

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	5.5000e-004	0.0318	6.9500e-003	1.7000e-004	5.2000e-003	3.9000e-004	5.5900e-003	1.4400e-003	3.7000e-004	1.8100e-003	0.0000	16.9105	16.9105	2.4000e-004	2.6600e-003	17.7105
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.8000e-004	7.5100e-003	2.0000e-005	2.4300e-003	1.0000e-005	2.4400e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0061	2.0061	5.0000e-005	5.0000e-005	2.0232
Total	1.3300e-003	0.0324	0.0145	1.9000e-004	7.6300e-003	4.0000e-004	8.0300e-003	2.0900e-003	3.8000e-004	2.4700e-003	0.0000	18.9165	18.9165	2.9000e-004	2.7100e-003	19.7337

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.7 Site Preparation S2 - 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					0.3149	0.0000	0.3149	0.1617	0.0000	0.1617	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0426	0.4404	0.2919	6.1000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	53.5211	53.5211	0.0173	0.0000	53.9539
Total	0.0426	0.4404	0.2919	6.1000e-004	0.3149	0.0203	0.3352	0.1617	0.0186	0.1803	0.0000	53.5211	53.5211	0.0173	0.0000	53.9539

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	4.8000e-004	8.5700e-003	7.0400e-003	2.0000e-005	1.7000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	1.5964	1.5964	3.0000e-005	2.5000e-004	1.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.9000e-004	9.0200e-003	3.0000e-005	3.1700e-003	2.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.4073	2.4073	6.0000e-005	6.0000e-005	2.4278
Total	1.4100e-003	9.2600e-003	0.0161	5.0000e-005	3.3400e-003	4.0000e-005	3.3700e-003	8.9000e-004	3.0000e-005	9.1000e-004	0.0000	4.0037	4.0037	9.0000e-005	3.1000e-004	4.0999

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.7 Site Preparation S2 - 2023

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					0.1228	0.0000	0.1228	0.0631	0.0000	0.0631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0426	0.4404	0.2919	6.1000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	53.5211	53.5211	0.0173	0.0000	53.9538
Total	0.0426	0.4404	0.2919	6.1000e-004	0.1228	0.0203	0.1431	0.0631	0.0186	0.0817	0.0000	53.5211	53.5211	0.0173	0.0000	53.9538

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	4.8000e-004	8.5700e-003	7.0400e-003	2.0000e-005	1.6000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	1.5964	1.5964	3.0000e-005	2.5000e-004	1.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.9000e-004	9.0200e-003	3.0000e-005	2.9200e-003	2.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.4073	2.4073	6.0000e-005	6.0000e-005	2.4278
Total	1.4100e-003	9.2600e-003	0.0161	5.0000e-005	3.0800e-003	4.0000e-005	3.1000e-003	8.2000e-004	3.0000e-005	8.5000e-004	0.0000	4.0037	4.0037	9.0000e-005	3.1000e-004	4.0999

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.8 Building Construction S2 - 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					
Off-Road	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0261	0.8256	0.3289	4.2100e-003	0.1521	6.8600e-003	0.1590	0.0439	6.5600e-003	0.0505	0.0000	405.1472	405.1472	4.0900e-003	0.0599	423.1020
Worker	0.2896	0.2145	2.7949	8.1400e-003	0.9812	4.6700e-003	0.9858	0.2605	4.3000e-003	0.2648	0.0000	746.1492	746.1492	0.0186	0.0198	752.5189
Total	0.3157	1.0401	3.1238	0.0124	1.1333	0.0115	1.1448	0.3044	0.0109	0.3153	0.0000	1,151.2964	1,151.2964	0.0227	0.0797	1,175.6209

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.8 Building Construction S2 - 2023

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	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0261	0.8256	0.3289	4.2100e-003	0.1424	6.8600e-003	0.1493	0.0415	6.5600e-003	0.0481	0.0000	405.1472	405.1472	4.0900e-003	0.0599	423.1020
Worker	0.2896	0.2145	2.7949	8.1400e-003	0.9046	4.6700e-003	0.9093	0.2417	4.3000e-003	0.2460	0.0000	746.1492	746.1492	0.0186	0.0198	752.5189
Total	0.3157	1.0401	3.1238	0.0124	1.0470	0.0115	1.0586	0.2833	0.0109	0.2941	0.0000	1,151.2964	1,151.2964	0.0227	0.0797	1,175.6209

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.8 Building Construction S2 - 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	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2619	89.2619	0.0211	0.0000	89.7896
Total	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2619	89.2619	0.0211	0.0000	89.7896

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0230	0.7393	0.2912	3.7100e-003	0.1362	6.1000e-003	0.1423	0.0393	5.8400e-003	0.0451	0.0000	357.1600	357.1600	3.8000e-003	0.0527	372.9685
Worker	0.2420	0.1710	2.3403	7.0600e-003	0.8785	3.9900e-003	0.8825	0.2333	3.6700e-003	0.2369	0.0000	646.9109	646.9109	0.0151	0.0165	652.1983
Total	0.2650	0.9102	2.6314	0.0108	1.0147	0.0101	1.0248	0.2726	9.5100e-003	0.2821	0.0000	1,004.0709	1,004.0709	0.0189	0.0692	1,025.1667

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.8 Building Construction S2 - 2024

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	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2618	89.2618	0.0211	0.0000	89.7895
Total	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2618	89.2618	0.0211	0.0000	89.7895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0230	0.7393	0.2912	3.7100e-003	0.1275	6.1000e-003	0.1336	0.0372	5.8400e-003	0.0430	0.0000	357.1600	357.1600	3.8000e-003	0.0527	372.9685
Worker	0.2420	0.1710	2.3403	7.0600e-003	0.8099	3.9900e-003	0.8139	0.2165	3.6700e-003	0.2201	0.0000	646.9109	646.9109	0.0151	0.0165	652.1983
Total	0.2650	0.9102	2.6314	0.0108	0.9375	0.0101	0.9475	0.2536	9.5100e-003	0.2631	0.0000	1,004.0709	1,004.0709	0.0189	0.0692	1,025.1667

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 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					
Archit. Coating	0.6538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.6601	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0324	0.4223	1.2300e-003	0.1482	7.1000e-004	0.1490	0.0394	6.5000e-004	0.0400	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981
Total	0.0438	0.0324	0.4223	1.2300e-003	0.1482	7.1000e-004	0.1490	0.0394	6.5000e-004	0.0400	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.6601	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0324	0.4223	1.2300e-003	0.1367	7.1000e-004	0.1374	0.0365	6.5000e-004	0.0372	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981
Total	0.0438	0.0324	0.4223	1.2300e-003	0.1367	7.1000e-004	0.1374	0.0365	6.5000e-004	0.0372	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253
Total	2.2329	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1382	0.0976	1.3367	4.0300e-003	0.5018	2.2800e-003	0.5040	0.1332	2.1000e-003	0.1353	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052
Total	0.1382	0.0976	1.3367	4.0300e-003	0.5018	2.2800e-003	0.5040	0.1332	2.1000e-003	0.1353	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 2024

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	2.2130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253
Total	2.2329	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1382	0.0976	1.3367	4.0300e-003	0.4626	2.2800e-003	0.4649	0.1236	2.1000e-003	0.1257	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052
Total	0.1382	0.0976	1.3367	4.0300e-003	0.4626	2.2800e-003	0.4649	0.1236	2.1000e-003	0.1257	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.10 Paving - 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					
Off-Road	0.0222	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059
Paving	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186
Total	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.10 Paving - 2023

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	0.0222	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0577	43.0577	0.0139	0.0000	43.4059
Paving	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0577	43.0577	0.0139	0.0000	43.4059

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.2700e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186
Total	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.2700e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

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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	0.0875	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2348	177.2348	0.0573	0.0000	178.6678
Paving	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1012	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2348	177.2348	0.0573	0.0000	178.6678

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	6.0000e-005	3.9400e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324
Total	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	6.0000e-005	3.9400e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.10 Paving - 2024

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	0.0875	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2346	177.2346	0.0573	0.0000	178.6676
Paving	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1012	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2346	177.2346	0.0573	0.0000	178.6676

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0135	7.0000e-005	0.0135	3.5900e-003	6.0000e-005	3.6600e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324
Total	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0135	7.0000e-005	0.0135	3.5900e-003	6.0000e-005	3.6600e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.11 Paving S2 - 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					
Off-Road	0.0108	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982
Paving	8.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0192	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277
Total	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.11 Paving S2 - 2023

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	0.0108	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982
Paving	8.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0192	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277
Total	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.11 Paving S2 - 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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	8.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0196	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464
Total	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.11 Paving S2 - 2024

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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	8.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0196	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.5000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464
Total	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.5000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.12 Demolition S3 - 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					0.1422	0.0000	0.1422	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.3445	0.3252	6.4000e-004		0.0158	0.0158		0.0147	0.0147	0.0000	56.0935	56.0935	0.0157	0.0000	56.4858
Total	0.0370	0.3445	0.3252	6.4000e-004	0.1422	0.0158	0.1580	0.0215	0.0147	0.0363	0.0000	56.0935	56.0935	0.0157	0.0000	56.4858

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	1.2900e-003	0.0601	0.0173	3.0000e-004	9.4600e-003	6.6000e-004	0.0101	2.6000e-003	6.3000e-004	3.2300e-003	0.0000	29.0501	29.0501	4.4000e-004	4.5800e-003	30.4255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	7.2500e-003	2.0000e-005	2.7200e-003	1.0000e-005	2.7300e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.0032	2.0032	5.0000e-005	5.0000e-005	2.0196
Total	2.0400e-003	0.0607	0.0246	3.2000e-004	0.0122	6.7000e-004	0.0129	3.3200e-003	6.4000e-004	3.9600e-003	0.0000	31.0533	31.0533	4.9000e-004	4.6300e-003	32.4451

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.12 Demolition S3 - 2024

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					0.0555	0.0000	0.0555	8.4000e-003	0.0000	8.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.3445	0.3252	6.4000e-004		0.0158	0.0158		0.0147	0.0147	0.0000	56.0934	56.0934	0.0157	0.0000	56.4858
Total	0.0370	0.3445	0.3252	6.4000e-004	0.0555	0.0158	0.0713	8.4000e-003	0.0147	0.0231	0.0000	56.0934	56.0934	0.0157	0.0000	56.4858

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	1.2900e-003	0.0601	0.0173	3.0000e-004	8.8200e-003	6.6000e-004	9.4800e-003	2.4400e-003	6.3000e-004	3.0700e-003	0.0000	29.0501	29.0501	4.4000e-004	4.5800e-003	30.4255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	7.2500e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0032	2.0032	5.0000e-005	5.0000e-005	2.0196
Total	2.0400e-003	0.0607	0.0246	3.2000e-004	0.0113	6.7000e-004	0.0120	3.1100e-003	6.4000e-004	3.7500e-003	0.0000	31.0533	31.0533	4.9000e-004	4.6300e-003	32.4451

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.13 Site Preparation S3 - 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					0.3243	0.0000	0.3243	0.1667	0.0000	0.1667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.4484	0.3025	6.3000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	55.2042	55.2042	0.0179	0.0000	55.6505
Total	0.0439	0.4484	0.3025	6.3000e-004	0.3243	0.0203	0.3446	0.1667	0.0187	0.1854	0.0000	55.2042	55.2042	0.0179	0.0000	55.6505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.2600e-003	1.0000e-005	3.2800e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235
Total	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.2600e-003	1.0000e-005	3.2800e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.13 Site Preparation S3 - 2024

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					0.1265	0.0000	0.1265	0.0650	0.0000	0.0650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.4484	0.3025	6.3000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	55.2041	55.2041	0.0179	0.0000	55.6504
Total	0.0439	0.4484	0.3025	6.3000e-004	0.1265	0.0203	0.1468	0.0650	0.0187	0.0837	0.0000	55.2041	55.2041	0.0179	0.0000	55.6504

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.0100e-003	1.0000e-005	3.0200e-003	8.0000e-004	1.0000e-005	8.2000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235
Total	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.0100e-003	1.0000e-005	3.0200e-003	8.0000e-004	1.0000e-005	8.2000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.14 Grading S3 - 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					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608
Total	0.0724	0.7285	0.6238	1.4000e-003	0.2071	0.0301	0.2372	0.0822	0.0276	0.1099	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608

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	9.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	2.3055	2.3055	3.0000e-005	3.6000e-004	2.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.9500e-003	2.0000e-005	4.9700e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
Total	1.4500e-003	5.6100e-003	0.0144	6.0000e-005	5.7100e-003	7.0000e-005	5.7800e-003	1.5200e-003	7.0000e-005	1.5900e-003	0.0000	5.9478	5.9478	1.2000e-004	4.5000e-004	6.0867

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.14 Grading S3 - 2024

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					0.0808	0.0000	0.0808	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606
Total	0.0724	0.7285	0.6238	1.4000e-003	0.0808	0.0301	0.1108	0.0321	0.0276	0.0597	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606

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	9.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	7.1000e-004	5.0000e-005	7.6000e-004	2.0000e-004	5.0000e-005	2.5000e-004	0.0000	2.3055	2.3055	3.0000e-005	3.6000e-004	2.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.5600e-003	2.0000e-005	4.5800e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
Total	1.4500e-003	5.6100e-003	0.0144	6.0000e-005	5.2700e-003	7.0000e-005	5.3400e-003	1.4200e-003	7.0000e-005	1.4900e-003	0.0000	5.9478	5.9478	1.2000e-004	4.5000e-004	6.0867

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0906	168.0906	0.0398	0.0000	169.0843
Total	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0906	168.0906	0.0398	0.0000	169.0843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0433	1.3921	0.5483	6.9900e-003	0.2565	0.0115	0.2680	0.0740	0.0110	0.0850	0.0000	672.5739	672.5739	7.1500e-003	0.0993	702.3432
Worker	0.4557	0.3219	4.4070	0.0133	1.6543	7.5100e-003	1.6618	0.4393	6.9100e-003	0.4462	0.0000	1,218.2089	1,218.2089	0.0285	0.0310	1,228.1656
Total	0.4990	1.7141	4.9553	0.0203	1.9108	0.0190	1.9298	0.5133	0.0179	0.5312	0.0000	1,890.7828	1,890.7828	0.0356	0.1303	1,930.5088

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2024

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	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0904	168.0904	0.0398	0.0000	169.0841
Total	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0904	168.0904	0.0398	0.0000	169.0841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0433	1.3921	0.5483	6.9900e-003	0.2401	0.0115	0.2516	0.0700	0.0110	0.0810	0.0000	672.5739	672.5739	7.1500e-003	0.0993	702.3432
Worker	0.4557	0.3219	4.4070	0.0133	1.5252	7.5100e-003	1.5327	0.4076	6.9100e-003	0.4145	0.0000	1,218.2089	1,218.2089	0.0285	0.0310	1,228.1656
Total	0.4990	1.7141	4.9553	0.0203	1.7653	0.0190	1.7843	0.4776	0.0179	0.4955	0.0000	1,890.7828	1,890.7828	0.0356	0.1303	1,930.5088

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0769	2.4851	0.9759	0.0124	0.4617	0.0207	0.4824	0.1332	0.0198	0.1530	0.0000	1,189.3002	1,189.3002	0.0134	0.1752	1,241.8524
Worker	0.7673	0.5192	7.3843	0.0231	2.9777	0.0128	2.9906	0.7907	0.0118	0.8025	0.0000	2,118.4089	2,118.4089	0.0463	0.0521	2,135.0913
Total	0.8443	3.0042	8.3602	0.0355	3.4394	0.0335	3.4729	0.9239	0.0316	0.9555	0.0000	3,307.7091	3,307.7091	0.0597	0.2273	3,376.9437

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2025

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0769	2.4851	0.9759	0.0124	0.4322	0.0207	0.4529	0.1260	0.0198	0.1458	0.0000	1,189.3002	1,189.3002	0.0134	0.1752	1,241.8524
Worker	0.7673	0.5192	7.3843	0.0231	2.7453	0.0128	2.7582	0.7337	0.0118	0.7455	0.0000	2,118.4089	2,118.4089	0.0463	0.0521	2,135.0913
Total	0.8443	3.0042	8.3602	0.0355	3.1776	0.0335	3.2111	0.8596	0.0316	0.8912	0.0000	3,307.7091	3,307.7091	0.0597	0.2273	3,376.9437

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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					
Off-Road	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.6400	0.6444	8.0800e-003	0.3078	0.0137	0.3215	0.0888	0.0131	0.1019	0.0000	778.4449	778.4449	9.2200e-003	0.1145	812.7875
Worker	0.4810	0.3131	4.6150	0.0149	1.9852	8.0900e-003	1.9933	0.5271	7.4400e-003	0.5346	0.0000	1,368.3151	1,368.3151	0.0280	0.0327	1,378.7510
Total	0.5316	1.9531	5.2594	0.0230	2.2929	0.0218	2.3148	0.6159	0.0206	0.6365	0.0000	2,146.7600	2,146.7600	0.0373	0.1471	2,191.5385

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2026

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	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.6400	0.6444	8.0800e-003	0.2882	0.0137	0.3019	0.0840	0.0131	0.0971	0.0000	778.4449	778.4449	9.2200e-003	0.1145	812.7875
Worker	0.4810	0.3131	4.6150	0.0149	1.8302	8.0900e-003	1.8383	0.4891	7.4400e-003	0.4966	0.0000	1,368.3151	1,368.3151	0.0280	0.0327	1,378.7510
Total	0.5316	1.9531	5.2594	0.0230	2.1184	0.0218	2.1402	0.5731	0.0206	0.5937	0.0000	2,146.7600	2,146.7600	0.0373	0.1471	2,191.5385

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	0.1095	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0264	0.0186	0.2552	7.7000e-004	0.0958	4.3000e-004	0.0962	0.0254	4.0000e-004	0.0258	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146
Total	0.0264	0.0186	0.2552	7.7000e-004	0.0958	4.3000e-004	0.0962	0.0254	4.0000e-004	0.0258	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	0.1095	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0264	0.0186	0.2552	7.7000e-004	0.0883	4.3000e-004	0.0888	0.0236	4.0000e-004	0.0240	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146
Total	0.0264	0.0186	0.2552	7.7000e-004	0.0883	4.3000e-004	0.0888	0.0236	4.0000e-004	0.0240	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 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	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403
Total	0.0598	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0525	2.3000e-004	0.0527	0.0139	2.1000e-004	0.0141	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118
Total	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0525	2.3000e-004	0.0527	0.0139	2.1000e-004	0.0141	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402
Total	0.0598	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0484	2.3000e-004	0.0486	0.0129	2.1000e-004	0.0131	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118
Total	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0484	2.3000e-004	0.0486	0.0129	2.1000e-004	0.0131	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.17 Architectural Coating S3 - 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	4.0486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	4.0617	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0899	0.0608	0.8653	2.7100e-003	0.3490	1.5000e-003	0.3505	0.0927	1.3800e-003	0.0940	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005
Total	0.0899	0.0608	0.8653	2.7100e-003	0.3490	1.5000e-003	0.3505	0.0927	1.3800e-003	0.0940	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.17 Architectural Coating S3 - 2025

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	4.0486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	4.0617	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0899	0.0608	0.8653	2.7100e-003	0.3217	1.5000e-003	0.3232	0.0860	1.3800e-003	0.0874	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005
Total	0.0899	0.0608	0.8653	2.7100e-003	0.3217	1.5000e-003	0.3232	0.0860	1.3800e-003	0.0874	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.17 Architectural Coating S3 - 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	1.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	1.1150	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0151	0.2227	7.2000e-004	0.0958	3.9000e-004	0.0962	0.0254	3.6000e-004	0.0258	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283
Total	0.0232	0.0151	0.2227	7.2000e-004	0.0958	3.9000e-004	0.0962	0.0254	3.6000e-004	0.0258	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.17 Architectural Coating S3 - 2026

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	1.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	1.1150	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0151	0.2227	7.2000e-004	0.0883	3.9000e-004	0.0887	0.0236	3.6000e-004	0.0240	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283
Total	0.0232	0.0151	0.2227	7.2000e-004	0.0883	3.9000e-004	0.0887	0.0236	3.6000e-004	0.0240	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.18 Paving S3 - 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	0.0211	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0443	46.0443	0.0149	0.0000	46.4166
Paving	6.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0276	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0443	46.0443	0.0149	0.0000	46.4166

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189
Total	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.18 Paving S3 - 2025

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	0.0211	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0442	46.0442	0.0149	0.0000	46.4165
Paving	6.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0276	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0442	46.0442	0.0149	0.0000	46.4165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.5000e-003	2.0000e-005	3.5100e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189
Total	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.5000e-003	2.0000e-005	3.5100e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.18 Paving S3 - 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					
Off-Road	0.0339	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6702
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0444	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6702

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	6.1000e-003	2.0000e-005	6.1300e-003	1.6200e-003	2.0000e-005	1.6400e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367
Total	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	6.1000e-003	2.0000e-005	6.1300e-003	1.6200e-003	2.0000e-005	1.6400e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

3.18 Paving S3 - 2026

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	0.0339	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6701
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0444	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	5.6200e-003	2.0000e-005	5.6500e-003	1.5000e-003	2.0000e-005	1.5300e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367
Total	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	5.6200e-003	2.0000e-005	5.6500e-003	1.5000e-003	2.0000e-005	1.5300e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

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	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.17 77	29,728.17 77	1.7224	1.5795	30,241.92 97
Unmitigated	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.17 77	29,728.17 77	1.7224	1.5795	30,241.92 97

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,242.24	2,926.36	2437.64	10,532,248	10,532,248
Apartments Mid Rise	5,608.64	5,062.21	4216.79	18,219,375	18,219,375
City Park	1.15	2.90	3.24	4,898	4,898
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	584.40	132.60	42.00	1,425,082	1,425,082
Hotel	2,257.20	2,211.30	1606.50	5,148,607	5,148,607
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	34,337.36	32,570.91	15828.35	59,819,245	59,819,245
Total	46,031.00	42,906.28	24,134.52	95,149,455	95,149,455

4.3 Trip Type Information

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
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
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
City Park	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Enclosed Parking with Elevator	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
General Office Building	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Hotel	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Parking Lot	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Strip Mall	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Moreno Valley Mall - Construction Only - no mitigation - Riverside-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,632.4217	4,632.4217	0.3910	0.0474	4,656.3195
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,632.4217	4,632.4217	0.3910	0.0474	4,656.3195
Natural Gas Mitigated	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078
Natural Gas Unmitigated	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Apartments Mid Rise	8.57177e+006	0.0462	0.3950	0.1681	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	457.4225	457.4225	8.7700e-003	8.3900e-003	460.1407
Apartments Mid Rise	1.4828e+007	0.0800	0.6833	0.2908	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	791.2795	791.2795	0.0152	0.0145	795.9817
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.70448e+006	9.1900e-003	0.0836	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003	0.0000	90.9576	90.9576	1.7400e-003	1.6700e-003	91.4981
Total		0.2622	2.3145	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.4828e+007	0.0800	0.6833	0.2908	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	791.2795	791.2795	0.0152	0.0145	795.9817
Apartments Mid Rise	8.57177e+006	0.0462	0.3950	0.1681	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	457.4225	457.4225	8.7700e-003	8.3900e-003	460.1407
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.70448e+006	9.1900e-003	0.0836	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003	0.0000	90.9576	90.9576	1.7400e-003	1.6700e-003	91.4981
Total		0.2622	2.3145	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.36017e+006	418.5649	0.0353	4.2800e-003	420.7242
Apartments Mid Rise	4.08277e+006	724.0611	0.0611	7.4100e-003	727.7964
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.15546e+006	204.9150	0.0173	2.1000e-003	205.9721
Enclosed Parking with Elevator	1.52538e+006	270.5186	0.0228	2.7700e-003	271.9142
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Parking Lot	137437	24.3738	2.0600e-003	2.5000e-004	24.4996
Parking Lot	61541.5	10.9141	9.2000e-004	1.1000e-004	10.9704
Strip Mall	9.40563e+006	1,668.0475	0.1408	0.0171	1,676.6526
Total		4,632.4217	0.3910	0.0474	4,656.3195

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	2.36017e+006	418.5649	0.0353	4.2800e-003	420.7242
Apartments Mid Rise	4.08277e+006	724.0611	0.0611	7.4100e-003	727.7964
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.15546e+006	204.9150	0.0173	2.1000e-003	205.9721
Enclosed Parking with Elevator	1.52538e+006	270.5186	0.0228	2.7700e-003	271.9142
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Parking Lot	137437	24.3738	2.0600e-003	2.5000e-004	24.4996
Parking Lot	61541.5	10.9141	9.2000e-004	1.1000e-004	10.9704
Strip Mall	9.40563e+006	1,668.0475	0.1408	0.0171	1,676.6526
Total		4,632.4217	0.3910	0.0474	4,656.3195

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Mall - Construction Only - no mitigation - Riverside-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	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Unmitigated	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

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	1.0924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.3814					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	10.6583	0.8439	20.6854	0.0528		3.1071	3.1071		3.1071	3.1071	345.6369	664.1953	1,009.8322	1.0308	0.0235	1,042.5920
Landscaping	0.5067	0.1934	16.7998	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4798	27.4798	0.0264	0.0000	28.1407
Total	22.6389	1.0374	37.4852	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.3814					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	10.6583	0.8439	20.6854	0.0528		3.1071	3.1071		3.1071	3.1071	345.6369	664.1953	1,009.8322	1.0308	0.0235	1,042.5920
Landscaping	0.5067	0.1934	16.7998	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4798	27.4798	0.0264	0.0000	28.1407
Total	22.6389	1.0374	37.4852	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	693.9766	5.9486	0.1457	886.1109
Unmitigated	693.9766	5.9486	0.1457	886.1109

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	57.3884 / 35.1736	220.0318	1.8870	0.0462	280.9811
Total		693.9766	5.9486	0.1457	886.1109

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	57.3884 / 35.1736	220.0318	1.8870	0.0462	280.9811
Total		693.9766	5.9486	0.1457	886.1109

8.0 Waste Detail

8.1 Mitigation Measures Waste

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	358.4151	21.1817	0.0000	887.9581
Unmitigated	358.4151	21.1817	0.0000	887.9581

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	813.5	165.1332	9.7591	0.0000	409.1104
Total		358.4151	21.1817	0.0000	887.9581

Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	813.5	165.1332	9.7591	0.0000	409.1104
Total		358.4151	21.1817	0.0000	887.9581

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Moreno Valley Mall - Construction Only - no mitigation - Riverside-South Coast County, Annual

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

Moreno Valley Mall - Construction Only - with mitigation

Riverside-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	60.00	1000sqft	1.38	60,000.00	0
Enclosed Parking with Elevator	531.00	Space	4.78	212,400.00	0
Enclosed Parking with Elevator	701.00	Space	6.31	280,400.00	0
Parking Lot	392.68	1000sqft	9.01	392,677.00	0
Parking Lot	175.83	1000sqft	4.04	175,833.00	0
City Park	1.48	Acre	1.48	64,468.80	0
Hotel	270.00	Room	9.00	392,040.00	0
Apartments Mid Rise	596.00	Dwelling Unit	15.68	596,000.00	1705
Apartments Mid Rise	1,031.00	Dwelling Unit	27.13	1,031,000.00	2949
Strip Mall	774.76	1000sqft	17.79	774,764.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Areas from site plan. Parking Lot includes surface parking, drive aisles, and walkways. City Park includes landscaped areas

Construction Phase - anticipated schedule

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

Trips and VMT - onsite borrow site 0.5 mile, construction debris 10.2 miles, concrete asphalt 30.1 miles

Demolition -

Grading -

Architectural Coating - anticipated schedule. SCAQMD Rule 1113

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Area Coating -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	387,382.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	30,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	613,402.00	196,020.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	1,162,146.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	90,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,840,206.00	588,060.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	59,939.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	10,550.00
tblArchitecturalCoating	ConstArea_Parking	63,679.00	40,385.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	695,925.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,098,225.00	402,300.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	2,087,775.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	3,294,675.00	1,206,900.00

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	17.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	25.00
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
tblConstructionPhase	NumDays	110.00	65.00
tblConstructionPhase	NumDays	110.00	195.00
tblConstructionPhase	NumDays	110.00	285.00
tblConstructionPhase	NumDays	1,550.00	580.00
tblConstructionPhase	NumDays	1,550.00	499.00
tblConstructionPhase	NumDays	1,550.00	163.00

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

tblConstructionPhase	NumDays	100.00	65.00
tblConstructionPhase	NumDays	100.00	33.00
tblConstructionPhase	NumDays	100.00	32.00
tblConstructionPhase	NumDays	155.00	45.00
tblConstructionPhase	NumDays	155.00	67.00
tblConstructionPhase	NumDays	110.00	43.00
tblConstructionPhase	NumDays	110.00	120.00
tblConstructionPhase	NumDays	110.00	220.00
tblConstructionPhase	NumDays	60.00	33.00
tblConstructionPhase	NumDays	60.00	65.00
tblConstructionPhase	NumDays	60.00	32.00
tblGrading	MaterialExported	0.00	700.00
tblGrading	MaterialExported	0.00	2,000.00
tblGrading	MaterialExported	0.00	6,000.00
tblLandUse	LandUseSquareFeet	175,830.00	175,833.00
tblLandUse	LandUseSquareFeet	392,680.00	392,677.00
tblLandUse	LandUseSquareFeet	774,760.00	774,764.00
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblTripsAndVMT	HaulingTripLength	20.00	16.80
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	30.10
tblTripsAndVMT	HaulingTripLength	20.00	0.50

2.0 Emissions Summary

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	2.5533	10.2448	18.2306	0.0593	5.7854	0.3343	6.1197	1.8191	0.3116	2.1307	0.0000	5,456.0936	5,456.0936	0.3576	0.3079	5,556.7940
2024	4.8077	11.7714	25.0377	0.0847	7.6736	0.3357	8.0093	2.1489	0.3141	2.4631	0.0000	7,816.3649	7,816.3649	0.4019	0.4508	7,960.7380
2025	5.2762	5.0004	11.9585	0.0429	3.8446	0.1183	3.9629	1.0315	0.1114	1.1429	0.0000	3,967.1381	3,967.1381	0.1532	0.2344	4,040.8243
2026	1.8347	3.3956	7.4731	0.0270	2.3948	0.0847	2.4795	0.6430	0.0795	0.7225	0.0000	2,498.1925	2,498.1925	0.1104	0.1488	2,545.2985
Maximum	5.2762	11.7714	25.0377	0.0847	7.6736	0.3357	8.0093	2.1489	0.3141	2.4631	0.0000	7,816.3649	7,816.3649	0.4019	0.4508	7,960.7380

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

2.1 Overall Construction

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	2.2240	6.4773	18.7426	0.0593	4.6350	0.1440	4.7790	1.3560	0.1374	1.4934	0.0000	5,456.0925	5,456.0925	0.3576	0.3079	5,556.7928
2024	4.5307	8.6000	25.5342	0.0847	6.7287	0.1739	6.9027	1.8529	0.1662	2.0191	0.0000	7,816.3637	7,816.3637	0.4019	0.4508	7,960.7367
2025	5.2028	4.1415	12.0704	0.0429	3.5512	0.0765	3.6277	0.9595	0.0733	1.0327	0.0000	3,967.1376	3,967.1376	0.1532	0.2344	4,040.8239
2026	1.7719	2.6634	7.6065	0.0270	2.2123	0.0486	2.2610	0.5982	0.0465	0.6447	0.0000	2,498.1922	2,498.1922	0.1104	0.1488	2,545.2982
Maximum	5.2028	8.6000	25.5342	0.0847	6.7287	0.1739	6.9027	1.8529	0.1662	2.0191	0.0000	7,816.3637	7,816.3637	0.4019	0.4508	7,960.7367

	ROG	NOx	CO	SO2	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	5.13	28.05	-2.00	0.00	13.05	49.24	14.59	15.52	48.14	19.65	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	6.0158	2.6027
2	4-1-2023	6-30-2023	3.9467	3.1844
3	7-1-2023	9-30-2023	4.5333	3.2526
4	10-1-2023	12-31-2023	6.1587	4.9586
5	1-1-2024	3-31-2024	8.0982	6.4036
6	4-1-2024	6-30-2024	8.2146	6.1063
7	7-1-2024	9-30-2024	7.5032	6.2593
8	10-1-2024	12-31-2024	6.5329	5.7143

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

9	1-1-2025	3-31-2025	1.5019	1.3175
10	4-1-2025	6-30-2025	1.9987	1.8123
11	7-1-2025	9-30-2025	3.2608	3.0724
12	10-1-2025	12-31-2025	3.5112	3.1399
13	1-1-2026	3-31-2026	2.8953	2.4538
14	4-1-2026	6-30-2026	1.4139	1.1875
15	7-1-2026	9-30-2026	0.9447	0.8157
		Highest	8.2146	6.4036

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	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Energy	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	7,227.0111	7,227.0111	0.4407	0.0950	7,266.3273
Mobile	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297
Waste						0.0000	0.0000		0.0000	0.0000	358.4151	0.0000	358.4151	21.1817	0.0000	887.9581
Water						0.0000	0.0000		0.0000	0.0000	57.3935	636.5832	693.9766	5.9486	0.1457	886.1109
Total	38.7450	24.9741	181.3322	0.3894	35.9752	3.6427	39.6179	9.6089	3.6262	13.2351	761.4454	38,283.4470	39,044.8924	30.3507	1.8436	40,353.0587

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Energy	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	7,227.0111	7,227.0111	0.4407	0.0950	7,266.3273
Mobile	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297
Waste						0.0000	0.0000		0.0000	0.0000	358.4151	0.0000	358.4151	21.1817	0.0000	887.9581
Water						0.0000	0.0000		0.0000	0.0000	57.3935	636.5832	693.9766	5.9486	0.1457	886.1109
Total	38.7450	24.9741	181.3322	0.3894	35.9752	3.6427	39.6179	9.6089	3.6262	13.2351	761.4454	38,283.4470	39,044.8924	30.3507	1.8436	40,353.0587

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	4/1/2023	5	65	
2	Site Preparation	Site Preparation	1/1/2023	4/1/2023	5	65	
3	Building Construction	Building Construction	2/1/2023	12/30/2024	5	499	

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

4	Grading	Grading	3/1/2023	6/1/2023	5	67
5	Demolition S2	Demolition	7/1/2023	8/15/2023	5	32
6	Site Preparation S2	Site Preparation	7/1/2023	8/15/2023	5	32
7	Building Construction S2	Building Construction	9/1/2023	4/16/2024	5	163
8	Architectural Coating	Architectural Coating	10/1/2023	11/1/2024	5	285
9	Paving	Paving	11/1/2023	9/3/2024	5	220
10	Paving S2	Paving	12/1/2023	1/30/2024	5	43
11	Demolition S3	Demolition	3/20/2024	5/4/2024	5	33
12	Site Preparation S3	Site Preparation	3/20/2024	5/4/2024	5	33
13	Grading S3	Grading	4/15/2024	6/15/2024	5	45
14	Building Construction S3	Building Construction	6/12/2024	9/1/2026	5	580
15	Architectural Coating S2	Architectural Coating	11/2/2024	2/1/2025	5	65
16	Architectural Coating S3	Architectural Coating	6/1/2025	3/1/2026	5	195
17	Paving S3	Paving	10/29/2025	4/14/2026	5	120

Acres of Grading (Site Preparation Phase): 97.5

Acres of Grading (Grading Phase): 201

Acres of Paving: 24.14

Residential Indoor: 1,206,900; Residential Outdoor: 402,300; Non-Residential Indoor: 588,060; Non-Residential Outdoor: 196,020; Striped Parking Area: 40,385 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition S2	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition S2	Excavators	3	8.00	158	0.38
Demolition S2	Rubber Tired Dozers	2	8.00	247	0.40

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

Demolition S3	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition S3	Excavators	3	8.00	158	0.38
Demolition S3	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation S2	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation S2	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation S3	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation S3	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading S3	Excavators	2	8.00	158	0.38
Grading S3	Graders	1	8.00	187	0.41
Grading S3	Rubber Tired Dozers	1	8.00	247	0.40
Grading S3	Scrapers	2	8.00	367	0.48
Grading S3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Building Construction S2	Cranes	1	7.00	231	0.29
Building Construction S2	Forklifts	3	8.00	89	0.20
Building Construction S2	Generator Sets	1	8.00	84	0.74
Building Construction S2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction S2	Welders	1	8.00	46	0.45

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Building Construction S3	Cranes	1	7.00	231	0.29
Building Construction S3	Forklifts	3	8.00	89	0.20
Building Construction S3	Generator Sets	1	8.00	84	0.74
Building Construction S3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction S3	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving S2	Pavers	2	8.00	130	0.42
Paving S2	Paving Equipment	2	8.00	132	0.36
Paving S2	Rollers	2	8.00	80	0.38
Paving S3	Pavers	2	8.00	130	0.42
Paving S3	Paving Equipment	2	8.00	132	0.36
Paving S3	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating S2	Air Compressors	1	6.00	78	0.48
Architectural Coating S3	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	188.00	14.70	6.90	25.00	LD_Mix	HDT_Mix	HHDT
Demolition S2	6	15.00	0.00	430.00	14.70	6.90	30.10	LD_Mix	HDT_Mix	HHDT
Demolition S3	6	15.00	0.00	1,306.00	14.70	6.90	16.80	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation S2	7	18.00	0.00	750.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT
Site Preparation S3	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	250.00	14.70	6.90	0.50	LD_Mix	HDT_Mix	HHDT

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

Grading S3	8	20.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction S?	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction S?	9	2,076.00	560.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving S2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving S3	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	415.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating S?	1	415.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating S?	1	415.00	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
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

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

3.2 Demolition - 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					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.6982	0.6384	1.2600e-003		0.0324	0.0324		0.0302	0.0302	0.0000	110.4742	110.4742	0.0309	0.0000	111.2477
Total	0.0738	0.6982	0.6384	1.2600e-003	0.0205	0.0324	0.0529	3.1000e-003	0.0302	0.0333	0.0000	110.4742	110.4742	0.0309	0.0000	111.2477

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	2.2000e-004	0.0119	2.8200e-003	6.0000e-005	2.0300e-003	1.4000e-004	2.1700e-003	5.6000e-004	1.4000e-004	6.9000e-004	0.0000	6.1885	6.1885	9.0000e-005	9.8000e-004	6.4813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.1700e-003	0.0153	4.0000e-005	5.3600e-003	3.0000e-005	5.3800e-003	1.4200e-003	2.0000e-005	1.4500e-003	0.0000	4.0748	4.0748	1.0000e-004	1.1000e-004	4.1096
Total	1.8000e-003	0.0131	0.0181	1.0000e-004	7.3900e-003	1.7000e-004	7.5500e-003	1.9800e-003	1.6000e-004	2.1400e-003	0.0000	10.2633	10.2633	1.9000e-004	1.0900e-003	10.5908

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9900e-003	0.0000	7.9900e-003	1.2100e-003	0.0000	1.2100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0238	0.1403	0.7501	1.2600e-003		5.9000e-003	5.9000e-003		5.9000e-003	5.9000e-003	0.0000	110.4741	110.4741	0.0309	0.0000	111.2476
Total	0.0238	0.1403	0.7501	1.2600e-003	7.9900e-003	5.9000e-003	0.0139	1.2100e-003	5.9000e-003	7.1100e-003	0.0000	110.4741	110.4741	0.0309	0.0000	111.2476

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	2.2000e-004	0.0119	2.8200e-003	6.0000e-005	1.8900e-003	1.4000e-004	2.0300e-003	5.2000e-004	1.4000e-004	6.6000e-004	0.0000	6.1885	6.1885	9.0000e-005	9.8000e-004	6.4813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.1700e-003	0.0153	4.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3200e-003	2.0000e-005	1.3400e-003	0.0000	4.0748	4.0748	1.0000e-004	1.1000e-004	4.1096
Total	1.8000e-003	0.0131	0.0181	1.0000e-004	6.8300e-003	1.7000e-004	7.0000e-003	1.8400e-003	1.6000e-004	2.0000e-003	0.0000	10.2633	10.2633	1.9000e-004	1.0900e-003	10.5908

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

3.3 Site Preparation - 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					0.6389	0.0000	0.6389	0.3283	0.0000	0.3283	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0864	0.8945	0.5929	1.2400e-003		0.0412	0.0412		0.0379	0.0379	0.0000	108.7148	108.7148	0.0352	0.0000	109.5938
Total	0.0864	0.8945	0.5929	1.2400e-003	0.6389	0.0412	0.6800	0.3283	0.0379	0.3662	0.0000	108.7148	108.7148	0.0352	0.0000	109.5938

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315
Total	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7400e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315

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3.3 Site Preparation - 2023

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					0.2492	0.0000	0.2492	0.1281	0.0000	0.1281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.0656	0.6782	1.2400e-003		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	108.7146	108.7146	0.0352	0.0000	109.5937
Total	0.0151	0.0656	0.6782	1.2400e-003	0.2492	2.0200e-003	0.2512	0.1281	2.0200e-003	0.1301	0.0000	108.7146	108.7146	0.0352	0.0000	109.5937

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315
Total	1.9000e-003	1.4100e-003	0.0183	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6100e-003	0.0000	4.8897	4.8897	1.2000e-004	1.3000e-004	4.9315

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3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8477	275.8477	0.0656	0.0000	277.4881
Total	0.1872	1.7118	1.9330	3.2100e-003		0.0833	0.0833		0.0784	0.0784	0.0000	275.8477	275.8477	0.0656	0.0000	277.4881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0722	2.2848	0.9103	0.0117	0.4210	0.0190	0.4400	0.1215	0.0182	0.1396	0.0000	1,121.2213	1,121.2213	0.0113	0.1658	1,170.9102
Worker	0.8014	0.5937	7.7347	0.0225	2.7153	0.0129	2.7282	0.7210	0.0119	0.7329	0.0000	2,064.9244	2,064.9244	0.0515	0.0548	2,082.5522
Total	0.8736	2.8785	8.6449	0.0342	3.1363	0.0319	3.1682	0.8425	0.0301	0.8726	0.0000	3,186.1458	3,186.1458	0.0629	0.2206	3,253.4624

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

3.4 Building Construction - 2023

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	0.1219	0.9700	1.9736	3.2100e-003		0.0409	0.0409		0.0396	0.0396	0.0000	275.8473	275.8473	0.0656	0.0000	277.4878
Total	0.1219	0.9700	1.9736	3.2100e-003		0.0409	0.0409		0.0396	0.0396	0.0000	275.8473	275.8473	0.0656	0.0000	277.4878

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0722	2.2848	0.9103	0.0117	0.3942	0.0190	0.4132	0.1149	0.0182	0.1331	0.0000	1,121.2213	1,121.2213	0.0113	0.1658	1,170.9102
Worker	0.8014	0.5937	7.7347	0.0225	2.5034	0.0129	2.5163	0.6690	0.0119	0.6809	0.0000	2,064.9244	2,064.9244	0.0515	0.0548	2,082.5522
Total	0.8736	2.8785	8.6449	0.0342	2.8976	0.0319	2.9295	0.7839	0.0301	0.8140	0.0000	3,186.1458	3,186.1458	0.0629	0.2206	3,253.4624

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5631	302.5631	0.0716	0.0000	304.3518
Total	0.1920	1.7544	2.1098	3.5200e-003		0.0800	0.0800		0.0753	0.0753	0.0000	302.5631	302.5631	0.0716	0.0000	304.3518

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0780	2.5058	0.9869	0.0126	0.4617	0.0207	0.4824	0.1332	0.0198	0.1530	0.0000	1,210.6331	1,210.6331	0.0129	0.1787	1,264.2178
Worker	0.8203	0.5795	7.9327	0.0239	2.9777	0.0135	2.9912	0.7907	0.0124	0.8031	0.0000	2,192.7759	2,192.7759	0.0513	0.0558	2,210.6980
Total	0.8983	3.0853	8.9196	0.0365	3.4394	0.0342	3.4736	0.9239	0.0322	0.9561	0.0000	3,403.4090	3,403.4090	0.0641	0.2346	3,474.9158

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

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	0.1262	1.0007	2.1550	3.5200e-003		0.0400	0.0400		0.0387	0.0387	0.0000	302.5627	302.5627	0.0716	0.0000	304.3514
Total	0.1262	1.0007	2.1550	3.5200e-003		0.0400	0.0400		0.0387	0.0387	0.0000	302.5627	302.5627	0.0716	0.0000	304.3514

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0780	2.5058	0.9869	0.0126	0.4323	0.0207	0.4529	0.1260	0.0198	0.1458	0.0000	1,210.6331	1,210.6331	0.0129	0.1787	1,264.2178
Worker	0.8203	0.5795	7.9327	0.0239	2.7453	0.0135	2.7589	0.7337	0.0124	0.7461	0.0000	2,192.7759	2,192.7759	0.0513	0.0558	2,210.6980
Total	0.8983	3.0853	8.9196	0.0365	3.1776	0.0342	3.2118	0.8596	0.0322	0.8919	0.0000	3,403.4090	3,403.4090	0.0641	0.2346	3,474.9158

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.5 Grading - 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					0.3085	0.0000	0.3085	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1113	1.1563	0.9397	2.0800e-003		0.0477	0.0477		0.0439	0.0439	0.0000	182.6930	182.6930	0.0591	0.0000	184.1701
Total	0.1113	1.1563	0.9397	2.0800e-003	0.3085	0.0477	0.3562	0.1224	0.0439	0.1663	0.0000	182.6930	182.6930	0.0591	0.0000	184.1701

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	1.6000e-004	2.8600e-003	2.3500e-003	1.0000e-005	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5322	0.5322	1.0000e-005	8.0000e-005	0.5574
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6100e-003	0.0210	6.0000e-005	7.3600e-003	4.0000e-005	7.4000e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.6002	5.6002	1.4000e-004	1.5000e-004	5.6480
Total	2.3300e-003	4.4700e-003	0.0233	7.0000e-005	7.4200e-003	5.0000e-005	7.4600e-003	1.9800e-003	4.0000e-005	2.0100e-003	0.0000	6.1324	6.1324	1.5000e-004	2.3000e-004	6.2054

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.5 Grading - 2023

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					0.1203	0.0000	0.1203	0.0477	0.0000	0.0477	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0759	0.7555	1.0157	2.0800e-003		0.0282	0.0282		0.0260	0.0260	0.0000	182.6927	182.6927	0.0591	0.0000	184.1699
Total	0.0759	0.7555	1.0157	2.0800e-003	0.1203	0.0282	0.1485	0.0477	0.0260	0.0738	0.0000	182.6927	182.6927	0.0591	0.0000	184.1699

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	1.6000e-004	2.8600e-003	2.3500e-003	1.0000e-005	5.0000e-005	1.0000e-005	6.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.5322	0.5322	1.0000e-005	8.0000e-005	0.5574
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1700e-003	1.6100e-003	0.0210	6.0000e-005	6.7900e-003	4.0000e-005	6.8200e-003	1.8100e-003	3.0000e-005	1.8500e-003	0.0000	5.6002	5.6002	1.4000e-004	1.5000e-004	5.6480
Total	2.3300e-003	4.4700e-003	0.0233	7.0000e-005	6.8400e-003	5.0000e-005	6.8800e-003	1.8200e-003	4.0000e-005	1.8700e-003	0.0000	6.1324	6.1324	1.5000e-004	2.3000e-004	6.2054

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.6 Demolition S2 - 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					0.0468	0.0000	0.0468	7.0800e-003	0.0000	7.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3438	0.3143	6.2000e-004		0.0160	0.0160		0.0149	0.0149	0.0000	54.3873	54.3873	0.0152	0.0000	54.7681
Total	0.0363	0.3438	0.3143	6.2000e-004	0.0468	0.0160	0.0627	7.0800e-003	0.0149	0.0219	0.0000	54.3873	54.3873	0.0152	0.0000	54.7681

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	5.5000e-004	0.0318	6.9500e-003	1.7000e-004	5.5800e-003	3.9000e-004	5.9700e-003	1.5300e-003	3.7000e-004	1.9000e-003	0.0000	16.9105	16.9105	2.4000e-004	2.6600e-003	17.7105
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.8000e-004	7.5100e-003	2.0000e-005	2.6400e-003	1.0000e-005	2.6500e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	2.0061	2.0061	5.0000e-005	5.0000e-005	2.0232
Total	1.3300e-003	0.0324	0.0145	1.9000e-004	8.2200e-003	4.0000e-004	8.6200e-003	2.2300e-003	3.8000e-004	2.6100e-003	0.0000	18.9165	18.9165	2.9000e-004	2.7100e-003	19.7337

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.6 Demolition S2 - 2023

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					0.0182	0.0000	0.0182	2.7600e-003	0.0000	2.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.0691	0.3693	6.2000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003	0.0000	54.3872	54.3872	0.0152	0.0000	54.7680
Total	0.0117	0.0691	0.3693	6.2000e-004	0.0182	2.9100e-003	0.0212	2.7600e-003	2.9100e-003	5.6700e-003	0.0000	54.3872	54.3872	0.0152	0.0000	54.7680

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	5.5000e-004	0.0318	6.9500e-003	1.7000e-004	5.2000e-003	3.9000e-004	5.5900e-003	1.4400e-003	3.7000e-004	1.8100e-003	0.0000	16.9105	16.9105	2.4000e-004	2.6600e-003	17.7105
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.8000e-004	5.8000e-004	7.5100e-003	2.0000e-005	2.4300e-003	1.0000e-005	2.4400e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	2.0061	2.0061	5.0000e-005	5.0000e-005	2.0232
Total	1.3300e-003	0.0324	0.0145	1.9000e-004	7.6300e-003	4.0000e-004	8.0300e-003	2.0900e-003	3.8000e-004	2.4700e-003	0.0000	18.9165	18.9165	2.9000e-004	2.7100e-003	19.7337

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.7 Site Preparation S2 - 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					0.3149	0.0000	0.3149	0.1617	0.0000	0.1617	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0426	0.4404	0.2919	6.1000e-004		0.0203	0.0203		0.0186	0.0186	0.0000	53.5211	53.5211	0.0173	0.0000	53.9539
Total	0.0426	0.4404	0.2919	6.1000e-004	0.3149	0.0203	0.3352	0.1617	0.0186	0.1803	0.0000	53.5211	53.5211	0.0173	0.0000	53.9539

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	4.8000e-004	8.5700e-003	7.0400e-003	2.0000e-005	1.7000e-004	2.0000e-005	1.9000e-004	5.0000e-005	2.0000e-005	6.0000e-005	0.0000	1.5964	1.5964	3.0000e-005	2.5000e-004	1.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.9000e-004	9.0200e-003	3.0000e-005	3.1700e-003	2.0000e-005	3.1800e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.4073	2.4073	6.0000e-005	6.0000e-005	2.4278
Total	1.4100e-003	9.2600e-003	0.0161	5.0000e-005	3.3400e-003	4.0000e-005	3.3700e-003	8.9000e-004	3.0000e-005	9.1000e-004	0.0000	4.0037	4.0037	9.0000e-005	3.1000e-004	4.0999

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.7 Site Preparation S2 - 2023

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					0.1228	0.0000	0.1228	0.0631	0.0000	0.0631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4500e-003	0.0323	0.3339	6.1000e-004		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004	0.0000	53.5211	53.5211	0.0173	0.0000	53.9538
Total	7.4500e-003	0.0323	0.3339	6.1000e-004	0.1228	9.9000e-004	0.1238	0.0631	9.9000e-004	0.0641	0.0000	53.5211	53.5211	0.0173	0.0000	53.9538

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	4.8000e-004	8.5700e-003	7.0400e-003	2.0000e-005	1.6000e-004	2.0000e-005	1.7000e-004	4.0000e-005	2.0000e-005	6.0000e-005	0.0000	1.5964	1.5964	3.0000e-005	2.5000e-004	1.6721
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	6.9000e-004	9.0200e-003	3.0000e-005	2.9200e-003	2.0000e-005	2.9300e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.4073	2.4073	6.0000e-005	6.0000e-005	2.4278
Total	1.4100e-003	9.2600e-003	0.0161	5.0000e-005	3.0800e-003	4.0000e-005	3.1000e-003	8.2000e-004	3.0000e-005	8.5000e-004	0.0000	4.0037	4.0037	9.0000e-005	3.1000e-004	4.0999

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

3.8 Building Construction S2 - 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					
Off-Road	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0261	0.8256	0.3289	4.2100e-003	0.1521	6.8600e-003	0.1590	0.0439	6.5600e-003	0.0505	0.0000	405.1472	405.1472	4.0900e-003	0.0599	423.1020
Worker	0.2896	0.2145	2.7949	8.1400e-003	0.9812	4.6700e-003	0.9858	0.2605	4.3000e-003	0.2648	0.0000	746.1492	746.1492	0.0186	0.0198	752.5189
Total	0.3157	1.0401	3.1238	0.0124	1.1333	0.0115	1.1448	0.3044	0.0109	0.3153	0.0000	1,151.2964	1,151.2964	0.0227	0.0797	1,175.6209

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

3.8 Building Construction S2 - 2023

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	0.0440	0.3505	0.7132	1.1600e-003		0.0148	0.0148		0.0143	0.0143	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687
Total	0.0440	0.3505	0.7132	1.1600e-003		0.0148	0.0148		0.0143	0.0143	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0261	0.8256	0.3289	4.2100e-003	0.1424	6.8600e-003	0.1493	0.0415	6.5600e-003	0.0481	0.0000	405.1472	405.1472	4.0900e-003	0.0599	423.1020
Worker	0.2896	0.2145	2.7949	8.1400e-003	0.9046	4.6700e-003	0.9093	0.2417	4.3000e-003	0.2460	0.0000	746.1492	746.1492	0.0186	0.0198	752.5189
Total	0.3157	1.0401	3.1238	0.0124	1.0470	0.0115	1.0586	0.2833	0.0109	0.2941	0.0000	1,151.2964	1,151.2964	0.0227	0.0797	1,175.6209

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

3.8 Building Construction S2 - 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	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2619	89.2619	0.0211	0.0000	89.7896
Total	0.0567	0.5176	0.6224	1.0400e-003		0.0236	0.0236		0.0222	0.0222	0.0000	89.2619	89.2619	0.0211	0.0000	89.7896

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0230	0.7393	0.2912	3.7100e-003	0.1362	6.1000e-003	0.1423	0.0393	5.8400e-003	0.0451	0.0000	357.1600	357.1600	3.8000e-003	0.0527	372.9685
Worker	0.2420	0.1710	2.3403	7.0600e-003	0.8785	3.9900e-003	0.8825	0.2333	3.6700e-003	0.2369	0.0000	646.9109	646.9109	0.0151	0.0165	652.1983
Total	0.2650	0.9102	2.6314	0.0108	1.0147	0.0101	1.0248	0.2726	9.5100e-003	0.2821	0.0000	1,004.0709	1,004.0709	0.0189	0.0692	1,025.1667

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.8 Building Construction S2 - 2024

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	0.0372	0.2952	0.6358	1.0400e-003		0.0118	0.0118		0.0114	0.0114	0.0000	89.2618	89.2618	0.0211	0.0000	89.7895
Total	0.0372	0.2952	0.6358	1.0400e-003		0.0118	0.0118		0.0114	0.0114	0.0000	89.2618	89.2618	0.0211	0.0000	89.7895

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0230	0.7393	0.2912	3.7100e-003	0.1275	6.1000e-003	0.1336	0.0372	5.8400e-003	0.0430	0.0000	357.1600	357.1600	3.8000e-003	0.0527	372.9685
Worker	0.2420	0.1710	2.3403	7.0600e-003	0.8099	3.9900e-003	0.8139	0.2165	3.6700e-003	0.2201	0.0000	646.9109	646.9109	0.0151	0.0165	652.1983
Total	0.2650	0.9102	2.6314	0.0108	0.9375	0.0101	0.9475	0.2536	9.5100e-003	0.2631	0.0000	1,004.0709	1,004.0709	0.0189	0.0692	1,025.1667

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 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					
Archit. Coating	0.6538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.6601	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0324	0.4223	1.2300e-003	0.1482	7.1000e-004	0.1490	0.0394	6.5000e-004	0.0400	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981
Total	0.0438	0.0324	0.4223	1.2300e-003	0.1482	7.1000e-004	0.1490	0.0394	6.5000e-004	0.0400	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2300e-003	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105
Total	0.6601	0.0424	0.0589	1.0000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	8.2981	8.2981	5.0000e-004	0.0000	8.3105

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0324	0.4223	1.2300e-003	0.1367	7.1000e-004	0.1374	0.0365	6.5000e-004	0.0372	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981
Total	0.0438	0.0324	0.4223	1.2300e-003	0.1367	7.1000e-004	0.1374	0.0365	6.5000e-004	0.0372	0.0000	112.7357	112.7357	2.8100e-003	2.9900e-003	113.6981

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

3.9 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.2130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253
Total	2.2329	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1382	0.0976	1.3367	4.0300e-003	0.5018	2.2800e-003	0.5040	0.1332	2.1000e-003	0.1353	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052
Total	0.1382	0.0976	1.3367	4.0300e-003	0.5018	2.2800e-003	0.5040	0.1332	2.1000e-003	0.1353	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.9 Architectural Coating - 2024

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	2.2130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253
Total	2.2329	0.1341	0.1991	3.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	28.0858	28.0858	1.5800e-003	0.0000	28.1253

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1382	0.0976	1.3367	4.0300e-003	0.4626	2.2800e-003	0.4649	0.1236	2.1000e-003	0.1257	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052
Total	0.1382	0.0976	1.3367	4.0300e-003	0.4626	2.2800e-003	0.4649	0.1236	2.1000e-003	0.1257	0.0000	369.4853	369.4853	8.6400e-003	9.4100e-003	372.5052

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

3.10 Paving - 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					
Off-Road	0.0222	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059
Paving	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0255	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186
Total	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186

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

3.10 Paving - 2023

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	6.0300e-003	0.0261	0.3719	4.9000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	43.0577	43.0577	0.0139	0.0000	43.4059
Paving	3.3400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.3700e-003	0.0261	0.3719	4.9000e-004		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	43.0577	43.0577	0.0139	0.0000	43.4059

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.2700e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186
Total	1.0500e-003	7.7000e-004	0.0101	3.0000e-005	3.2700e-003	2.0000e-005	3.2800e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6956	2.6956	7.0000e-005	7.0000e-005	2.7186

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

3.10 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0875	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2348	177.2348	0.0573	0.0000	178.6678
Paving	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1012	0.8429	1.2944	2.0200e-003		0.0415	0.0415		0.0382	0.0382	0.0000	177.2348	177.2348	0.0573	0.0000	178.6678

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	6.0000e-005	3.9400e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324
Total	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0146	7.0000e-005	0.0147	3.8700e-003	6.0000e-005	3.9400e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324

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

3.10 Paving - 2024

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	0.0248	0.1076	1.5307	2.0200e-003		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	177.2346	177.2346	0.0573	0.0000	178.6676
Paving	0.0138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0386	0.1076	1.5307	2.0200e-003		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	177.2346	177.2346	0.0573	0.0000	178.6676

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0135	7.0000e-005	0.0135	3.5900e-003	6.0000e-005	3.6600e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324
Total	4.0200e-003	2.8400e-003	0.0389	1.2000e-004	0.0135	7.0000e-005	0.0135	3.5900e-003	6.0000e-005	3.6600e-003	0.0000	10.7446	10.7446	2.5000e-004	2.7000e-004	10.8324

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

3.11 Paving S2 - 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					
Off-Road	0.0108	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982
Paving	8.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0192	0.1070	0.1531	2.4000e-004		5.3600e-003	5.3600e-003		4.9300e-003	4.9300e-003	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277
Total	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.11 Paving S2 - 2023

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	2.9400e-003	0.0128	0.1816	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982
Paving	8.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0113	0.0128	0.1816	2.4000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	21.0282	21.0282	6.8000e-003	0.0000	21.1982

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277
Total	5.1000e-004	3.8000e-004	4.9300e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3277

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

3.11 Paving S2 - 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	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	8.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0196	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464
Total	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464

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

3.11 Paving S2 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0134	0.1903	2.5000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	8.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0118	0.0134	0.1903	2.5000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.5000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464
Total	5.0000e-004	3.5000e-004	4.8300e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.5000e-004	1.0000e-005	4.5000e-004	0.0000	1.3355	1.3355	3.0000e-005	3.0000e-005	1.3464

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

3.12 Demolition S3 - 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					0.1422	0.0000	0.1422	0.0215	0.0000	0.0215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.3445	0.3252	6.4000e-004		0.0158	0.0158		0.0147	0.0147	0.0000	56.0935	56.0935	0.0157	0.0000	56.4858
Total	0.0370	0.3445	0.3252	6.4000e-004	0.1422	0.0158	0.1580	0.0215	0.0147	0.0363	0.0000	56.0935	56.0935	0.0157	0.0000	56.4858

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	1.2900e-003	0.0601	0.0173	3.0000e-004	9.4600e-003	6.6000e-004	0.0101	2.6000e-003	6.3000e-004	3.2300e-003	0.0000	29.0501	29.0501	4.4000e-004	4.5800e-003	30.4255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	7.2500e-003	2.0000e-005	2.7200e-003	1.0000e-005	2.7300e-003	7.2000e-004	1.0000e-005	7.3000e-004	0.0000	2.0032	2.0032	5.0000e-005	5.0000e-005	2.0196
Total	2.0400e-003	0.0607	0.0246	3.2000e-004	0.0122	6.7000e-004	0.0129	3.3200e-003	6.4000e-004	3.9600e-003	0.0000	31.0533	31.0533	4.9000e-004	4.6300e-003	32.4451

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

3.12 Demolition S3 - 2024

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					0.0555	0.0000	0.0555	8.4000e-003	0.0000	8.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.0684	0.3807	6.4000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	56.0934	56.0934	0.0157	0.0000	56.4858
Total	0.0118	0.0684	0.3807	6.4000e-004	0.0555	2.7000e-003	0.0582	8.4000e-003	2.7000e-003	0.0111	0.0000	56.0934	56.0934	0.0157	0.0000	56.4858

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	1.2900e-003	0.0601	0.0173	3.0000e-004	8.8200e-003	6.6000e-004	9.4800e-003	2.4400e-003	6.3000e-004	3.0700e-003	0.0000	29.0501	29.0501	4.4000e-004	4.5800e-003	30.4255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	7.2500e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0032	2.0032	5.0000e-005	5.0000e-005	2.0196
Total	2.0400e-003	0.0607	0.0246	3.2000e-004	0.0113	6.7000e-004	0.0120	3.1100e-003	6.4000e-004	3.7500e-003	0.0000	31.0533	31.0533	4.9000e-004	4.6300e-003	32.4451

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

3.13 Site Preparation S3 - 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					0.3243	0.0000	0.3243	0.1667	0.0000	0.1667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0439	0.4484	0.3025	6.3000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	55.2042	55.2042	0.0179	0.0000	55.6505
Total	0.0439	0.4484	0.3025	6.3000e-004	0.3243	0.0203	0.3446	0.1667	0.0187	0.1854	0.0000	55.2042	55.2042	0.0179	0.0000	55.6505

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.2600e-003	1.0000e-005	3.2800e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235
Total	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.2600e-003	1.0000e-005	3.2800e-003	8.7000e-004	1.0000e-005	8.8000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235

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

3.13 Site Preparation S3 - 2024

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					0.1265	0.0000	0.1265	0.0650	0.0000	0.0650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6800e-003	0.0333	0.3443	6.3000e-004		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	55.2041	55.2041	0.0179	0.0000	55.6504
Total	7.6800e-003	0.0333	0.3443	6.3000e-004	0.1265	1.0200e-003	0.1275	0.0650	1.0200e-003	0.0660	0.0000	55.2041	55.2041	0.0179	0.0000	55.6504

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.0100e-003	1.0000e-005	3.0200e-003	8.0000e-004	1.0000e-005	8.2000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235
Total	9.0000e-004	6.4000e-004	8.7000e-003	3.0000e-005	3.0100e-003	1.0000e-005	3.0200e-003	8.0000e-004	1.0000e-005	8.2000e-004	0.0000	2.4039	2.4039	6.0000e-005	6.0000e-005	2.4235

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

3.14 Grading S3 - 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					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608
Total	0.0724	0.7285	0.6238	1.4000e-003	0.2071	0.0301	0.2372	0.0822	0.0276	0.1099	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608

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	9.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	2.3055	2.3055	3.0000e-005	3.6000e-004	2.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.9500e-003	2.0000e-005	4.9700e-003	1.3100e-003	2.0000e-005	1.3300e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
Total	1.4500e-003	5.6100e-003	0.0144	6.0000e-005	5.7100e-003	7.0000e-005	5.7800e-003	1.5200e-003	7.0000e-005	1.5900e-003	0.0000	5.9478	5.9478	1.2000e-004	4.5000e-004	6.0867

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

3.14 Grading S3 - 2024

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					0.0808	0.0000	0.0808	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0491	0.4698	0.6737	1.4000e-003		0.0176	0.0176		0.0163	0.0163	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606
Total	0.0491	0.4698	0.6737	1.4000e-003	0.0808	0.0176	0.0984	0.0321	0.0163	0.0484	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606

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	9.0000e-005	4.6500e-003	1.2300e-003	2.0000e-005	7.1000e-004	5.0000e-005	7.6000e-004	2.0000e-004	5.0000e-005	2.5000e-004	0.0000	2.3055	2.3055	3.0000e-005	3.6000e-004	2.4147
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3600e-003	9.6000e-004	0.0132	4.0000e-005	4.5600e-003	2.0000e-005	4.5800e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.6422	3.6422	9.0000e-005	9.0000e-005	3.6720
Total	1.4500e-003	5.6100e-003	0.0144	6.0000e-005	5.2700e-003	7.0000e-005	5.3400e-003	1.4200e-003	7.0000e-005	1.4900e-003	0.0000	5.9478	5.9478	1.2000e-004	4.5000e-004	6.0867

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0906	168.0906	0.0398	0.0000	169.0843
Total	0.1067	0.9747	1.1721	1.9500e-003		0.0445	0.0445		0.0418	0.0418	0.0000	168.0906	168.0906	0.0398	0.0000	169.0843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0433	1.3921	0.5483	6.9900e-003	0.2565	0.0115	0.2680	0.0740	0.0110	0.0850	0.0000	672.5739	672.5739	7.1500e-003	0.0993	702.3432
Worker	0.4557	0.3219	4.4070	0.0133	1.6543	7.5100e-003	1.6618	0.4393	6.9100e-003	0.4462	0.0000	1,218.2089	1,218.2089	0.0285	0.0310	1,228.1656
Total	0.4990	1.7141	4.9553	0.0203	1.9108	0.0190	1.9298	0.5133	0.0179	0.5312	0.0000	1,890.7828	1,890.7828	0.0356	0.1303	1,930.5088

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2024

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	0.0701	0.5560	1.1972	1.9500e-003		0.0222	0.0222		0.0215	0.0215	0.0000	168.0904	168.0904	0.0398	0.0000	169.0841
Total	0.0701	0.5560	1.1972	1.9500e-003		0.0222	0.0222		0.0215	0.0215	0.0000	168.0904	168.0904	0.0398	0.0000	169.0841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0433	1.3921	0.5483	6.9900e-003	0.2401	0.0115	0.2516	0.0700	0.0110	0.0810	0.0000	672.5739	672.5739	7.1500e-003	0.0993	702.3432
Worker	0.4557	0.3219	4.4070	0.0133	1.5252	7.5100e-003	1.5327	0.4076	6.9100e-003	0.4145	0.0000	1,218.2089	1,218.2089	0.0285	0.0310	1,228.1656
Total	0.4990	1.7141	4.9553	0.0203	1.7653	0.0190	1.7843	0.4776	0.0179	0.4955	0.0000	1,890.7828	1,890.7828	0.0356	0.1303	1,930.5088

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0769	2.4851	0.9759	0.0124	0.4617	0.0207	0.4824	0.1332	0.0198	0.1530	0.0000	1,189.3002	1,189.3002	0.0134	0.1752	1,241.8524
Worker	0.7673	0.5192	7.3843	0.0231	2.9777	0.0128	2.9906	0.7907	0.0118	0.8025	0.0000	2,118.4089	2,118.4089	0.0463	0.0521	2,135.0913
Total	0.8443	3.0042	8.3602	0.0355	3.4394	0.0335	3.4729	0.9239	0.0316	0.9555	0.0000	3,307.7091	3,307.7091	0.0597	0.2273	3,376.9437

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2025

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	0.1196	0.9378	2.1484	3.5200e-003		0.0359	0.0359		0.0347	0.0347	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1196	0.9378	2.1484	3.5200e-003		0.0359	0.0359		0.0347	0.0347	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0769	2.4851	0.9759	0.0124	0.4322	0.0207	0.4529	0.1260	0.0198	0.1458	0.0000	1,189.3002	1,189.3002	0.0134	0.1752	1,241.8524
Worker	0.7673	0.5192	7.3843	0.0231	2.7453	0.0128	2.7582	0.7337	0.0118	0.7455	0.0000	2,118.4089	2,118.4089	0.0463	0.0521	2,135.0913
Total	0.8443	3.0042	8.3602	0.0355	3.1776	0.0335	3.2111	0.8596	0.0316	0.8912	0.0000	3,307.7091	3,307.7091	0.0597	0.2273	3,376.9437

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 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					
Off-Road	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557
Total	0.1190	1.0849	1.3994	2.3500e-003		0.0459	0.0459		0.0432	0.0432	0.0000	201.7699	201.7699	0.0474	0.0000	202.9557

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.6400	0.6444	8.0800e-003	0.3078	0.0137	0.3215	0.0888	0.0131	0.1019	0.0000	778.4449	778.4449	9.2200e-003	0.1145	812.7875
Worker	0.4810	0.3131	4.6150	0.0149	1.9852	8.0900e-003	1.9933	0.5271	7.4400e-003	0.5346	0.0000	1,368.3151	1,368.3151	0.0280	0.0327	1,378.7510
Total	0.5316	1.9531	5.2594	0.0230	2.2929	0.0218	2.3148	0.6159	0.0206	0.6365	0.0000	2,146.7600	2,146.7600	0.0373	0.1471	2,191.5385

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.15 Building Construction S3 - 2026

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	0.0797	0.6252	1.4323	2.3500e-003		0.0239	0.0239		0.0231	0.0231	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554
Total	0.0797	0.6252	1.4323	2.3500e-003		0.0239	0.0239		0.0231	0.0231	0.0000	201.7697	201.7697	0.0474	0.0000	202.9554

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0507	1.6400	0.6444	8.0800e-003	0.2882	0.0137	0.3019	0.0840	0.0131	0.0971	0.0000	778.4449	778.4449	9.2200e-003	0.1145	812.7875
Worker	0.4810	0.3131	4.6150	0.0149	1.8302	8.0900e-003	1.8383	0.4891	7.4400e-003	0.4966	0.0000	1,368.3151	1,368.3151	0.0280	0.0327	1,378.7510
Total	0.5316	1.9531	5.2594	0.0230	2.1184	0.0218	2.1402	0.5731	0.0206	0.5937	0.0000	2,146.7600	2,146.7600	0.0373	0.1471	2,191.5385

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	0.1095	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0264	0.0186	0.2552	7.7000e-004	0.0958	4.3000e-004	0.0962	0.0254	4.0000e-004	0.0258	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146
Total	0.0264	0.0186	0.2552	7.7000e-004	0.0958	4.3000e-004	0.0962	0.0254	4.0000e-004	0.0258	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1057					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694
Total	0.1095	0.0256	0.0380	6.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	5.3618	5.3618	3.0000e-004	0.0000	5.3694

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0264	0.0186	0.2552	7.7000e-004	0.0883	4.3000e-004	0.0888	0.0236	4.0000e-004	0.0240	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146
Total	0.0264	0.0186	0.2552	7.7000e-004	0.0883	4.3000e-004	0.0888	0.0236	4.0000e-004	0.0240	0.0000	70.5381	70.5381	1.6500e-003	1.8000e-003	71.1146

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 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	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403
Total	0.0598	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9403

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0525	2.3000e-004	0.0527	0.0139	2.1000e-004	0.0141	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118
Total	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0525	2.3000e-004	0.0527	0.0139	2.1000e-004	0.0141	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.16 Architectural Coating S2 - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402
Total	0.0598	0.0132	0.0208	3.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	2.9362	2.9362	1.6000e-004	0.0000	2.9402

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0484	2.3000e-004	0.0486	0.0129	2.1000e-004	0.0131	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118
Total	0.0135	9.1500e-003	0.1301	4.1000e-004	0.0484	2.3000e-004	0.0486	0.0129	2.1000e-004	0.0131	0.0000	37.3180	37.3180	8.2000e-004	9.2000e-004	37.6118

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

3.17 Architectural Coating S3 - 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	4.0486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	4.0617	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0899	0.0608	0.8653	2.7100e-003	0.3490	1.5000e-003	0.3505	0.0927	1.3800e-003	0.0940	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005
Total	0.0899	0.0608	0.8653	2.7100e-003	0.3490	1.5000e-003	0.3505	0.0927	1.3800e-003	0.0940	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005

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3.17 Architectural Coating S3 - 2025

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	4.0486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	4.0617	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0899	0.0608	0.8653	2.7100e-003	0.3217	1.5000e-003	0.3232	0.0860	1.3800e-003	0.0874	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005
Total	0.0899	0.0608	0.8653	2.7100e-003	0.3217	1.5000e-003	0.3232	0.0860	1.3800e-003	0.0874	0.0000	248.2456	248.2456	5.4300e-003	6.1000e-003	250.2005

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3.17 Architectural Coating S3 - 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	1.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	1.1150	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0151	0.2227	7.2000e-004	0.0958	3.9000e-004	0.0962	0.0254	3.6000e-004	0.0258	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283
Total	0.0232	0.0151	0.2227	7.2000e-004	0.0958	3.9000e-004	0.0962	0.0254	3.6000e-004	0.0258	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283

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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					
Archit. Coating	1.1114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	1.1150	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0232	0.0151	0.2227	7.2000e-004	0.0883	3.9000e-004	0.0887	0.0236	3.6000e-004	0.0240	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283
Total	0.0232	0.0151	0.2227	7.2000e-004	0.0883	3.9000e-004	0.0887	0.0236	3.6000e-004	0.0240	0.0000	66.0248	66.0248	1.3500e-003	1.5800e-003	66.5283

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3.18 Paving S3 - 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	0.0211	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0443	46.0443	0.0149	0.0000	46.4166
Paving	6.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0276	0.1974	0.3353	5.2000e-004		9.6300e-003	9.6300e-003		8.8600e-003	8.8600e-003	0.0000	46.0443	46.0443	0.0149	0.0000	46.4166

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189
Total	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8100e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189

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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					
Off-Road	6.4500e-003	0.0280	0.3978	5.2000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.0442	46.0442	0.0149	0.0000	46.4165
Paving	6.5500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0130	0.0280	0.3978	5.2000e-004		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	46.0442	46.0442	0.0149	0.0000	46.4165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.5000e-003	2.0000e-005	3.5100e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189
Total	9.8000e-004	6.6000e-004	9.4000e-003	3.0000e-005	3.5000e-003	2.0000e-005	3.5100e-003	9.3000e-004	2.0000e-005	9.5000e-004	0.0000	2.6977	2.6977	6.0000e-005	7.0000e-005	2.7189

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

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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	0.0339	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6702
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0444	0.3175	0.5394	8.4000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	74.0712	74.0712	0.0240	0.0000	74.6702

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	6.1000e-003	2.0000e-005	6.1300e-003	1.6200e-003	2.0000e-005	1.6400e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367
Total	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	6.1000e-003	2.0000e-005	6.1300e-003	1.6200e-003	2.0000e-005	1.6400e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367

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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					
Off-Road	0.0104	0.0450	0.6399	8.4000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	74.0712	74.0712	0.0240	0.0000	74.6701
Paving	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0209	0.0450	0.6399	8.4000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	74.0712	74.0712	0.0240	0.0000	74.6701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	5.6200e-003	2.0000e-005	5.6500e-003	1.5000e-003	2.0000e-005	1.5300e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367
Total	1.4800e-003	9.6000e-004	0.0142	5.0000e-005	5.6200e-003	2.0000e-005	5.6500e-003	1.5000e-003	2.0000e-005	1.5300e-003	0.0000	4.2047	4.2047	9.0000e-005	1.0000e-004	4.2367

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297
Unmitigated	15.8439	21.6222	142.3497	0.3214	35.9752	0.2614	36.2365	9.6089	0.2448	9.8537	0.0000	29,728.1777	29,728.1777	1.7224	1.5795	30,241.9297

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,242.24	2,926.36	2437.64	10,532,248	10,532,248
Apartments Mid Rise	5,608.64	5,062.21	4216.79	18,219,375	18,219,375
City Park	1.15	2.90	3.24	4,898	4,898
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	584.40	132.60	42.00	1,425,082	1,425,082
Hotel	2,257.20	2,211.30	1606.50	5,148,607	5,148,607
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	34,337.36	32,570.91	15828.35	59,819,245	59,819,245
Total	46,031.00	42,906.28	24,134.52	95,149,455	95,149,455

4.3 Trip Type Information

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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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
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
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
City Park	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Enclosed Parking with Elevator	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
General Office Building	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Hotel	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Parking Lot	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Strip Mall	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Moreno Valley Mall - Construction Only - with mitigation - Riverside-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,632.4217	4,632.4217	0.3910	0.0474	4,656.3195
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,632.4217	4,632.4217	0.3910	0.0474	4,656.3195
Natural Gas Mitigated	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078
Natural Gas Unmitigated	0.2622	2.3146	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Apartments Mid Rise	8.57177e+006	0.0462	0.3950	0.1681	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	457.4225	457.4225	8.7700e-003	8.3900e-003	460.1407
Apartments Mid Rise	1.4828e+007	0.0800	0.6833	0.2908	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	791.2795	791.2795	0.0152	0.0145	795.9817
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.70448e+006	9.1900e-003	0.0836	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003	0.0000	90.9576	90.9576	1.7400e-003	1.6700e-003	91.4981
Total		0.2622	2.3145	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.4828e+007	0.0800	0.6833	0.2908	4.3600e-003		0.0552	0.0552		0.0552	0.0552	0.0000	791.2795	791.2795	0.0152	0.0145	795.9817
Apartments Mid Rise	8.57177e+006	0.0462	0.3950	0.1681	2.5200e-003		0.0319	0.0319		0.0319	0.0319	0.0000	457.4225	457.4225	8.7700e-003	8.3900e-003	460.1407
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.70448e+006	9.1900e-003	0.0836	0.0702	5.0000e-004		6.3500e-003	6.3500e-003		6.3500e-003	6.3500e-003	0.0000	90.9576	90.9576	1.7400e-003	1.6700e-003	91.4981
Total		0.2622	2.3145	1.4973	0.0143		0.1811	0.1811		0.1811	0.1811	0.0000	2,594.5894	2,594.5894	0.0497	0.0476	2,610.0078

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.36017e+006	418.5649	0.0353	4.2800e-003	420.7242
Apartments Mid Rise	4.08277e+006	724.0611	0.0611	7.4100e-003	727.7964
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.15546e+006	204.9150	0.0173	2.1000e-003	205.9721
Enclosed Parking with Elevator	1.52538e+006	270.5186	0.0228	2.7700e-003	271.9142
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Parking Lot	137437	24.3738	2.0600e-003	2.5000e-004	24.4996
Parking Lot	61541.5	10.9141	9.2000e-004	1.1000e-004	10.9704
Strip Mall	9.40563e+006	1,668.0475	0.1408	0.0171	1,676.6526
Total		4,632.4217	0.3910	0.0474	4,656.3195

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	2.36017e+006	418.5649	0.0353	4.2800e-003	420.7242
Apartments Mid Rise	4.08277e+006	724.0611	0.0611	7.4100e-003	727.7964
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.15546e+006	204.9150	0.0173	2.1000e-003	205.9721
Enclosed Parking with Elevator	1.52538e+006	270.5186	0.0228	2.7700e-003	271.9142
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Parking Lot	137437	24.3738	2.0600e-003	2.5000e-004	24.4996
Parking Lot	61541.5	10.9141	9.2000e-004	1.1000e-004	10.9704
Strip Mall	9.40563e+006	1,668.0475	0.1408	0.0171	1,676.6526
Total		4,632.4217	0.3910	0.0474	4,656.3195

6.0 Area Detail

6.1 Mitigation Measures Area

Moreno Valley Mall - Construction Only - with mitigation - Riverside-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	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326
Unmitigated	22.6389	1.0374	37.4851	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

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	1.0924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.3814					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	10.6583	0.8439	20.6854	0.0528		3.1071	3.1071		3.1071	3.1071	345.6369	664.1953	1,009.8322	1.0308	0.0235	1,042.5920
Landscaping	0.5067	0.1934	16.7998	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4798	27.4798	0.0264	0.0000	28.1407
Total	22.6389	1.0374	37.4852	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.0924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	10.3814					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	10.6583	0.8439	20.6854	0.0528		3.1071	3.1071		3.1071	3.1071	345.6369	664.1953	1,009.8322	1.0308	0.0235	1,042.5920
Landscaping	0.5067	0.1934	16.7998	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4798	27.4798	0.0264	0.0000	28.1407
Total	22.6389	1.0374	37.4852	0.0537		3.2002	3.2002		3.2002	3.2002	345.6369	691.6752	1,037.3120	1.0572	0.0235	1,070.7326

7.0 Water Detail

7.1 Mitigation Measures Water

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	693.9766	5.9486	0.1457	886.1109
Unmitigated	693.9766	5.9486	0.1457	886.1109

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	57.3884 / 35.1736	220.0318	1.8870	0.0462	280.9811
Total		693.9766	5.9486	0.1457	886.1109

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	57.3884 / 35.1736	220.0318	1.8870	0.0462	280.9811
Total		693.9766	5.9486	0.1457	886.1109

8.0 Waste Detail

8.1 Mitigation Measures Waste

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	358.4151	21.1817	0.0000	887.9581
Unmitigated	358.4151	21.1817	0.0000	887.9581

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	813.5	165.1332	9.7591	0.0000	409.1104
Total		358.4151	21.1817	0.0000	887.9581

Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	813.5	165.1332	9.7591	0.0000	409.1104
Total		358.4151	21.1817	0.0000	887.9581

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Moreno Valley Mall - Construction Only - with mitigation - Riverside-South Coast County, Annual

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Operations Only Modeling

Moreno Valley Redevelopment Project - Operations - Riverside-South Coast County, Annual

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

Moreno Valley Redevelopment Project - Operations

Riverside-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	60.00	1000sqft	1.38	60,000.00	0
Enclosed Parking with Elevator	1,053.00	Space	9.48	421,200.00	0
City Park	1.48	Acre	1.48	64,263.98	0
Hotel	270.00	Room	9.00	392,040.00	0
Apartments Mid Rise	1,627.00	Dwelling Unit	42.82	1,867,700.00	4653
Strip Mall	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - multi-family square feet based on site plan, other land uses conservatively use default settings which are higher, landscape area shown as park,

Construction Phase - Operations only Model, no construction

Off-road Equipment - operations only, no construction

Trips and VMT - Operations only Model, no construction

Vehicle Trips - residential trip rate $7,390/1,627 = 4.542102028272895$, Hotel rate $2158/270 = 7.992592592592593$, office rate $652/60 = 10.866666666666667$, mall addition $876/24 = 36.5$,

Moreno Valley Redevelopment Project - Operations - Riverside-South Coast County, Annual

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

Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Woodstoves - no wood burning per SCAQMD Rule 445

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Fleet Mix - modified fleet mix based on traffic study

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	1.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	81.35	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06

Moreno Valley Redevelopment Project - Operations - Riverside-South Coast County, Annual

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

tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14

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tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00

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tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblLandUse	LandUseSquareFeet	64,468.80	64,263.98
tblLandUse	LandUseSquareFeet	1,627,000.00	1,867,700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	332.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,567.00	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.34	5.04
tblVehicleEF	HHD	0.22	0.19
tblVehicleEF	HHD	2.2440e-003	2.0750e-003
tblVehicleEF	HHD	1,303.68	775.04
tblVehicleEF	HHD	1,185.67	1,500.37
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.21	0.12
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	6.75	3.98
tblVehicleEF	HHD	1.88	1.45
tblVehicleEF	HHD	2.39	2.76
tblVehicleEF	HHD	2.6250e-003	1.8450e-003
tblVehicleEF	HHD	0.06	0.07

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tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.5110e-003	1.7600e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	1.0000e-006	1.2900e-004
tblVehicleEF	HHD	3.5000e-005	3.3000e-005
tblVehicleEF	HHD	0.56	0.33
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.3000e-005	3.4000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	7.0390e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.2900e-004
tblVehicleEF	HHD	3.5000e-005	3.3000e-005
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	1.3000e-005	3.4000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.23	4.97
tblVehicleEF	HHD	0.23	0.19
tblVehicleEF	HHD	2.1300e-003	1.9580e-003
tblVehicleEF	HHD	1,286.98	765.93
tblVehicleEF	HHD	1,185.67	1,500.37

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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.20	0.12
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	6.42	3.79
tblVehicleEF	HHD	1.77	1.38
tblVehicleEF	HHD	2.39	2.76
tblVehicleEF	HHD	2.3220e-003	1.6370e-003
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.2220e-003	1.5620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.0000e-006	1.8300e-004
tblVehicleEF	HHD	3.9000e-005	3.6000e-005
tblVehicleEF	HHD	0.60	0.35
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.3000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	6.9530e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.8300e-004
tblVehicleEF	HHD	3.9000e-005	3.6000e-005
tblVehicleEF	HHD	0.68	0.49
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	1.3000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.49	5.13
tblVehicleEF	HHD	0.22	0.19
tblVehicleEF	HHD	2.2470e-003	2.0530e-003
tblVehicleEF	HHD	1,326.74	787.61
tblVehicleEF	HHD	1,185.67	1,500.37
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.21	0.13
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	7.20	4.24
tblVehicleEF	HHD	1.86	1.43
tblVehicleEF	HHD	2.39	2.76
tblVehicleEF	HHD	3.0430e-003	2.1320e-003
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.9110e-003	2.0350e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	1.0000e-006	1.3100e-004
tblVehicleEF	HHD	3.8000e-005	3.3000e-005
tblVehicleEF	HHD	0.52	0.30
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01

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tblVehicleEF	HHD	1.4000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	7.1580e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.3100e-004
tblVehicleEF	HHD	3.8000e-005	3.3000e-005
tblVehicleEF	HHD	0.59	0.44
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	1.4000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	LDA	1.3900e-003	1.7950e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.49	0.63
tblVehicleEF	LDA	1.78	2.42
tblVehicleEF	LDA	226.97	254.28
tblVehicleEF	LDA	46.78	63.08
tblVehicleEF	LDA	3.5640e-003	3.8500e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003
tblVehicleEF	LDA	0.05	0.29
tblVehicleEF	LDA	0.08	0.08

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tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	4.8900e-003	6.4240e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.15	0.24
tblVehicleEF	LDA	2.2450e-003	2.5140e-003
tblVehicleEF	LDA	4.6300e-004	6.2400e-004
tblVehicleEF	LDA	0.05	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	7.1090e-003	9.3600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.16	0.27
tblVehicleEF	LDA	1.5850e-003	1.9070e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.60	0.84
tblVehicleEF	LDA	1.58	2.03
tblVehicleEF	LDA	246.66	275.38
tblVehicleEF	LDA	46.39	62.35
tblVehicleEF	LDA	3.3980e-003	3.4260e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.19
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003
tblVehicleEF	LDA	0.10	0.37

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tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.07	0.00
tblVehicleEF	LDA	5.5160e-003	6.7360e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.13	0.21
tblVehicleEF	LDA	2.4400e-003	2.7220e-003
tblVehicleEF	LDA	4.5900e-004	6.1600e-004
tblVehicleEF	LDA	0.10	0.37
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.07	0.00
tblVehicleEF	LDA	8.0220e-003	9.8150e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.14	0.23
tblVehicleEF	LDA	1.3420e-003	1.7830e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.46	0.59
tblVehicleEF	LDA	1.82	2.40
tblVehicleEF	LDA	221.60	250.72
tblVehicleEF	LDA	46.84	63.05
tblVehicleEF	LDA	3.4590e-003	3.7410e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003

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tblVehicleEF	LDA	0.04	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.7260e-003	6.3810e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.15	0.24
tblVehicleEF	LDA	2.1920e-003	2.4780e-003
tblVehicleEF	LDA	4.6400e-004	6.2300e-004
tblVehicleEF	LDA	0.04	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	6.8700e-003	9.2970e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.16	0.27
tblVehicleEF	LDT1	3.9800e-003	7.5830e-003
tblVehicleEF	LDT1	0.05	0.11
tblVehicleEF	LDT1	0.94	1.67
tblVehicleEF	LDT1	1.97	5.32
tblVehicleEF	LDT1	273.46	328.61
tblVehicleEF	LDT1	57.18	85.64
tblVehicleEF	LDT1	6.1070e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	0.20	0.41
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003
tblVehicleEF	LDT1	0.02	2.9700e-003
tblVehicleEF	LDT1	1.4120e-003	1.8240e-003

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tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.14	0.81
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.25	0.57
tblVehicleEF	LDT1	2.7060e-003	3.2490e-003
tblVehicleEF	LDT1	5.6600e-004	8.4700e-004
tblVehicleEF	LDT1	0.14	0.81
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.28	0.62
tblVehicleEF	LDT1	4.5000e-003	8.0280e-003
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	1.14	2.22
tblVehicleEF	LDT1	1.75	4.42
tblVehicleEF	LDT1	294.44	353.57
tblVehicleEF	LDT1	56.72	83.93
tblVehicleEF	LDT1	5.8110e-003	9.7840e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.13
tblVehicleEF	LDT1	0.19	0.38
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003
tblVehicleEF	LDT1	0.02	2.9700e-003

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tblVehicleEF	LDT1	1.4120e-003	1.8240e-003
tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.28	1.04
tblVehicleEF	LDT1	0.21	0.22
tblVehicleEF	LDT1	0.19	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.22	0.48
tblVehicleEF	LDT1	2.9140e-003	3.4950e-003
tblVehicleEF	LDT1	5.6100e-004	8.3000e-004
tblVehicleEF	LDT1	0.28	1.04
tblVehicleEF	LDT1	0.21	0.22
tblVehicleEF	LDT1	0.19	0.00
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.24	0.53
tblVehicleEF	LDT1	3.8250e-003	7.5320e-003
tblVehicleEF	LDT1	0.05	0.11
tblVehicleEF	LDT1	0.87	1.58
tblVehicleEF	LDT1	2.02	5.28
tblVehicleEF	LDT1	267.05	324.40
tblVehicleEF	LDT1	57.28	85.58
tblVehicleEF	LDT1	5.9500e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	0.20	0.40
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003

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tblVehicleEF	LDT1	0.02	2.9700e-003
tblVehicleEF	LDT1	1.4120e-003	1.8240e-003
tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.12	0.81
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.09	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.26	0.57
tblVehicleEF	LDT1	2.6430e-003	3.2070e-003
tblVehicleEF	LDT1	5.6700e-004	8.4600e-004
tblVehicleEF	LDT1	0.12	0.81
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.09	0.00
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.28	0.62
tblVehicleEF	LDT2	2.5050e-003	2.4680e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.69	0.77
tblVehicleEF	LDT2	2.28	2.97
tblVehicleEF	LDT2	282.19	330.84
tblVehicleEF	LDT2	59.29	82.24
tblVehicleEF	LDT2	4.9570e-003	5.3210e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.20	0.27
tblVehicleEF	LDT2	0.04	8.0340e-003
tblVehicleEF	LDT2	1.2190e-003	1.2010e-003

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tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.08	0.00
tblVehicleEF	LDT2	9.6580e-003	9.2330e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.22	0.31
tblVehicleEF	LDT2	2.7920e-003	3.2700e-003
tblVehicleEF	LDT2	5.8700e-004	8.1300e-004
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.08	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.34
tblVehicleEF	LDT2	2.8500e-003	2.6200e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.85	1.02
tblVehicleEF	LDT2	2.03	2.48
tblVehicleEF	LDT2	301.79	353.19
tblVehicleEF	LDT2	58.79	81.33
tblVehicleEF	LDT2	4.7400e-003	4.7480e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.19	0.26
tblVehicleEF	LDT2	0.04	8.0340e-003

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tblVehicleEF	LDT2	1.2190e-003	1.2010e-003
tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.17	0.38
tblVehicleEF	LDT2	0.13	0.08
tblVehicleEF	LDT2	0.14	0.00
tblVehicleEF	LDT2	0.01	9.6820e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.19	0.26
tblVehicleEF	LDT2	2.9860e-003	3.4910e-003
tblVehicleEF	LDT2	5.8200e-004	8.0400e-004
tblVehicleEF	LDT2	0.17	0.38
tblVehicleEF	LDT2	0.13	0.08
tblVehicleEF	LDT2	0.14	0.00
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.21	0.29
tblVehicleEF	LDT2	2.4030e-003	2.4520e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.64	0.72
tblVehicleEF	LDT2	2.34	2.95
tblVehicleEF	LDT2	276.19	327.07
tblVehicleEF	LDT2	59.40	82.21
tblVehicleEF	LDT2	4.8280e-003	5.1750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.20	0.27

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tblVehicleEF	LDT2	0.04	8.0340e-003
tblVehicleEF	LDT2	1.2190e-003	1.2010e-003
tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	9.2730e-003	9.1700e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.22	0.31
tblVehicleEF	LDT2	2.7320e-003	3.2330e-003
tblVehicleEF	LDT2	5.8800e-004	8.1300e-004
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.34
tblVehicleEF	LHD1	4.2850e-003	4.5140e-003
tblVehicleEF	LHD1	3.2600e-003	1.9150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.48
tblVehicleEF	LHD1	0.83	1.73
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.54	316.95
tblVehicleEF	LHD1	9.70	14.68

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tblVehicleEF	LHD1	8.6900e-004	8.0200e-004
tblVehicleEF	LHD1	0.04	4.1540e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.93	0.07
tblVehicleEF	LHD1	0.25	0.35
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	4.4260e-003
tblVehicleEF	LHD1	8.1560e-003	6.0100e-004
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.1060e-003
tblVehicleEF	LHD1	7.7850e-003	5.5300e-004
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004
tblVehicleEF	LHD1	2.4640e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2690e-003	0.00
tblVehicleEF	LHD1	0.04	9.2130e-003
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	3.1330e-003
tblVehicleEF	LHD1	9.6000e-005	1.4500e-004
tblVehicleEF	LHD1	2.4640e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.03	0.03

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tblVehicleEF	LHD1	1.2690e-003	0.00
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	4.2960e-003	4.5310e-003
tblVehicleEF	LHD1	3.3020e-003	2.0830e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.14
tblVehicleEF	LHD1	0.80	1.64
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.54	216.88
tblVehicleEF	LHD1	9.63	14.53
tblVehicleEF	LHD1	8.7000e-004	8.0400e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.88	0.67
tblVehicleEF	LHD1	0.24	0.34
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	5.4860e-003
tblVehicleEF	LHD1	8.1560e-003	0.01
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.3720e-003
tblVehicleEF	LHD1	7.7850e-003	0.01
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004

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tblVehicleEF	LHD1	4.5870e-003	0.14
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3790e-003	0.00
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	2.0550e-003
tblVehicleEF	LHD1	9.5000e-005	1.4400e-004
tblVehicleEF	LHD1	4.5870e-003	0.14
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.3790e-003	0.00
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2840e-003	4.5170e-003
tblVehicleEF	LHD1	3.2550e-003	2.0830e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.14
tblVehicleEF	LHD1	0.84	1.72
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.53	216.88
tblVehicleEF	LHD1	9.71	14.66
tblVehicleEF	LHD1	8.6900e-004	8.0300e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.92	0.70
tblVehicleEF	LHD1	0.25	0.35
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	5.4860e-003
tblVehicleEF	LHD1	8.1560e-003	0.01
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.3720e-003
tblVehicleEF	LHD1	7.7850e-003	0.01
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004
tblVehicleEF	LHD1	2.1280e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1510e-003	0.00
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.18	0.06
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	2.0550e-003
tblVehicleEF	LHD1	9.6000e-005	1.4500e-004
tblVehicleEF	LHD1	2.1280e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1510e-003	0.00
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.18	0.06

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tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD2	2.7640e-003	2.5080e-003
tblVehicleEF	LHD2	2.6030e-003	5.4400e-004
tblVehicleEF	LHD2	6.4920e-003	9.0070e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.17
tblVehicleEF	LHD2	0.48	0.86
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	171.91
tblVehicleEF	LHD2	6.62	7.42
tblVehicleEF	LHD2	1.8460e-003	1.9070e-003
tblVehicleEF	LHD2	0.06	1.9320e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.05	0.03
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.02
tblVehicleEF	LHD2	0.01	2.1700e-003
tblVehicleEF	LHD2	0.01	2.5300e-004
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	8.4250e-003
tblVehicleEF	LHD2	2.7190e-003	5.4300e-004
tblVehicleEF	LHD2	0.01	2.3300e-004
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	1.3200e-003	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	7.1200e-004	0.00
tblVehicleEF	LHD2	0.04	2.3740e-003
tblVehicleEF	LHD2	0.08	0.02
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	1.7000e-003
tblVehicleEF	LHD2	6.6000e-005	7.3000e-005
tblVehicleEF	LHD2	1.3200e-003	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.1200e-004	0.00
tblVehicleEF	LHD2	0.05	3.4650e-003
tblVehicleEF	LHD2	0.08	0.02
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7710e-003	2.5170e-003
tblVehicleEF	LHD2	2.6180e-003	3.0790e-003
tblVehicleEF	LHD2	6.2730e-003	8.6680e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.18
tblVehicleEF	LHD2	0.45	0.82
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	422.91
tblVehicleEF	LHD2	6.58	7.34
tblVehicleEF	LHD2	1.8470e-003	1.9080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.99	0.85
tblVehicleEF	LHD2	0.15	0.17

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tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.07
tblVehicleEF	LHD2	0.01	8.8530e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	2.7190e-003	2.2130e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	2.4810e-003	0.07
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.3230e-003	0.00
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	4.0070e-003
tblVehicleEF	LHD2	6.5000e-005	7.3000e-005
tblVehicleEF	LHD2	2.4810e-003	0.07
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3230e-003	0.00
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7630e-003	2.5090e-003
tblVehicleEF	LHD2	2.5990e-003	3.0790e-003

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tblVehicleEF	LHD2	6.5370e-003	8.9490e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.18
tblVehicleEF	LHD2	0.48	0.86
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	422.91
tblVehicleEF	LHD2	6.63	7.41
tblVehicleEF	LHD2	1.8460e-003	1.9070e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	0.89
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.07
tblVehicleEF	LHD2	0.01	8.8530e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	2.7190e-003	2.2130e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	9.9900e-004	0.06
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.9700e-004	0.00
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	LHD2	0.08	0.03

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tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	4.0070e-003
tblVehicleEF	LHD2	6.6000e-005	7.3000e-005
tblVehicleEF	LHD2	9.9900e-004	0.06
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.9700e-004	0.00
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.24	0.17
tblVehicleEF	MCY	18.21	12.72
tblVehicleEF	MCY	8.64	7.70
tblVehicleEF	MCY	208.24	188.15
tblVehicleEF	MCY	59.22	46.82
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.5250e-003
tblVehicleEF	MCY	1.11	0.56
tblVehicleEF	MCY	0.26	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003
tblVehicleEF	MCY	1.68	2.49
tblVehicleEF	MCY	0.82	3.58

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tblVehicleEF	MCY	0.90	0.00
tblVehicleEF	MCY	2.10	1.06
tblVehicleEF	MCY	0.46	1.33
tblVehicleEF	MCY	1.79	1.24
tblVehicleEF	MCY	2.0610e-003	1.8600e-003
tblVehicleEF	MCY	5.8600e-004	4.6300e-004
tblVehicleEF	MCY	1.68	2.49
tblVehicleEF	MCY	0.82	3.58
tblVehicleEF	MCY	0.90	0.00
tblVehicleEF	MCY	2.62	1.28
tblVehicleEF	MCY	0.46	1.33
tblVehicleEF	MCY	1.94	1.35
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.21	0.15
tblVehicleEF	MCY	18.86	12.86
tblVehicleEF	MCY	8.01	6.90
tblVehicleEF	MCY	209.23	188.36
tblVehicleEF	MCY	57.61	45.06
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.3800e-003
tblVehicleEF	MCY	0.97	0.49
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003
tblVehicleEF	MCY	3.33	3.64

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tblVehicleEF	MCY	1.23	3.76
tblVehicleEF	MCY	2.04	0.00
tblVehicleEF	MCY	2.09	1.05
tblVehicleEF	MCY	0.46	1.39
tblVehicleEF	MCY	1.60	1.09
tblVehicleEF	MCY	2.0710e-003	1.8620e-003
tblVehicleEF	MCY	5.7000e-004	4.4600e-004
tblVehicleEF	MCY	3.33	3.64
tblVehicleEF	MCY	1.23	3.76
tblVehicleEF	MCY	2.04	0.00
tblVehicleEF	MCY	2.60	1.27
tblVehicleEF	MCY	0.46	1.39
tblVehicleEF	MCY	1.74	1.19
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.24	0.17
tblVehicleEF	MCY	17.80	12.54
tblVehicleEF	MCY	8.61	7.53
tblVehicleEF	MCY	207.58	187.84
tblVehicleEF	MCY	59.21	46.47
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.02	7.5190e-003
tblVehicleEF	MCY	1.11	0.54
tblVehicleEF	MCY	0.26	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003

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tblVehicleEF	MCY	1.59	2.59
tblVehicleEF	MCY	1.00	3.60
tblVehicleEF	MCY	0.72	0.00
tblVehicleEF	MCY	2.10	1.05
tblVehicleEF	MCY	0.52	1.43
tblVehicleEF	MCY	1.79	1.21
tblVehicleEF	MCY	2.0540e-003	1.8570e-003
tblVehicleEF	MCY	5.8600e-004	4.5900e-004
tblVehicleEF	MCY	1.59	2.59
tblVehicleEF	MCY	1.00	3.60
tblVehicleEF	MCY	0.72	0.00
tblVehicleEF	MCY	2.61	1.27
tblVehicleEF	MCY	0.52	1.43
tblVehicleEF	MCY	1.95	1.32
tblVehicleEF	MDV	3.0610e-003	3.5140e-003
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.75	0.94
tblVehicleEF	MDV	2.53	3.36
tblVehicleEF	MDV	354.28	409.67
tblVehicleEF	MDV	73.99	101.49
tblVehicleEF	MDV	6.8880e-003	7.8940e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.25	0.37
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003
tblVehicleEF	MDV	0.02	2.9190e-003
tblVehicleEF	MDV	1.1600e-003	1.2330e-003

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tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.12	0.43
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.10	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.28	0.43
tblVehicleEF	MDV	3.5020e-003	4.0470e-003
tblVehicleEF	MDV	7.3200e-004	1.0030e-003
tblVehicleEF	MDV	0.12	0.43
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.10	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.30	0.47
tblVehicleEF	MDV	3.4860e-003	3.7310e-003
tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.92	1.25
tblVehicleEF	MDV	2.23	2.80
tblVehicleEF	MDV	374.80	432.81
tblVehicleEF	MDV	73.40	100.41
tblVehicleEF	MDV	6.6270e-003	7.1270e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.24	0.34
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003
tblVehicleEF	MDV	0.02	2.9190e-003

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tblVehicleEF	MDV	1.1600e-003	1.2330e-003
tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.22	0.52
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.18	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MDV	3.7050e-003	4.2760e-003
tblVehicleEF	MDV	7.2600e-004	9.9300e-004
tblVehicleEF	MDV	0.22	0.52
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.18	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.27	0.40
tblVehicleEF	MDV	2.9380e-003	3.4900e-003
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.70	0.88
tblVehicleEF	MDV	2.59	3.33
tblVehicleEF	MDV	348.03	405.76
tblVehicleEF	MDV	74.10	101.46
tblVehicleEF	MDV	6.7340e-003	7.6980e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.25	0.37
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003

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tblVehicleEF	MDV	0.02	2.9190e-003
tblVehicleEF	MDV	1.1600e-003	1.2330e-003
tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.09	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.07	0.03
tblVehicleEF	MDV	0.28	0.43
tblVehicleEF	MDV	3.4400e-003	4.0090e-003
tblVehicleEF	MDV	7.3300e-004	1.0030e-003
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.09	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.03
tblVehicleEF	MDV	0.31	0.47
tblVehicleEF	MH	6.2700e-003	6.6450e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.69	0.72
tblVehicleEF	MH	1.72	2.05
tblVehicleEF	MH	1,362.78	1,515.66
tblVehicleEF	MH	16.59	21.02
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.39	1.46
tblVehicleEF	MH	0.23	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	0.92	32.51
tblVehicleEF	MH	0.05	7.39
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.01	2.0590e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.92	32.51
tblVehicleEF	MH	0.05	7.39
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	2.0590e-003
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	6.3920e-003	6.7810e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.71	0.74
tblVehicleEF	MH	1.60	1.91
tblVehicleEF	MH	1,362.80	1,515.69
tblVehicleEF	MH	16.40	20.78
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.30	1.37

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tblVehicleEF	MH	0.22	0.29
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	1.67	40.27
tblVehicleEF	MH	0.06	7.97
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.01	2.1260e-003
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6200e-004	2.0500e-004
tblVehicleEF	MH	1.67	40.27
tblVehicleEF	MH	0.06	7.97
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.01	2.1260e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	6.2570e-003	6.6560e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.69	0.72
tblVehicleEF	MH	1.73	2.05
tblVehicleEF	MH	1,362.78	1,515.66
tblVehicleEF	MH	16.61	21.01

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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.38	1.44
tblVehicleEF	MH	0.23	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	0.87	32.67
tblVehicleEF	MH	0.06	7.39
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.01	2.1050e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.87	32.67
tblVehicleEF	MH	0.06	7.39
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	2.1050e-003
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MHD	3.2690e-003	0.02
tblVehicleEF	MHD	9.7500e-004	6.8800e-003
tblVehicleEF	MHD	7.7720e-003	5.4780e-003

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tblVehicleEF	MHD	0.35	0.66
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.84	0.62
tblVehicleEF	MHD	64.48	165.28
tblVehicleEF	MHD	900.30	1,088.35
tblVehicleEF	MHD	7.99	5.64
tblVehicleEF	MHD	9.3230e-003	0.03
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.4790e-003	3.9890e-003
tblVehicleEF	MHD	0.35	0.86
tblVehicleEF	MHD	0.88	0.67
tblVehicleEF	MHD	1.74	1.49
tblVehicleEF	MHD	2.6600e-004	1.1960e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005
tblVehicleEF	MHD	2.5400e-004	1.1440e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	5.5300e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	2.9600e-004	0.00
tblVehicleEF	MHD	9.6690e-003	0.01
tblVehicleEF	MHD	0.01	9.6690e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1200e-004	1.5180e-003
tblVehicleEF	MHD	8.5800e-003	0.01

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tblVehicleEF	MHD	7.9000e-005	5.6000e-005
tblVehicleEF	MHD	5.5300e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.9600e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.01	9.6690e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	3.1120e-003	0.02
tblVehicleEF	MHD	9.8800e-004	6.8950e-003
tblVehicleEF	MHD	7.5230e-003	5.2660e-003
tblVehicleEF	MHD	0.31	0.62
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.80	0.59
tblVehicleEF	MHD	64.28	163.79
tblVehicleEF	MHD	900.30	1,088.35
tblVehicleEF	MHD	7.92	5.58
tblVehicleEF	MHD	9.2600e-003	0.03
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.4040e-003	3.9140e-003
tblVehicleEF	MHD	0.34	0.83
tblVehicleEF	MHD	0.83	0.63
tblVehicleEF	MHD	1.74	1.48
tblVehicleEF	MHD	2.2700e-004	1.0200e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005
tblVehicleEF	MHD	2.1700e-004	9.7500e-004
tblVehicleEF	MHD	0.06	0.01

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tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	1.0540e-003	0.02
tblVehicleEF	MHD	0.02	4.2250e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.5900e-004	0.00
tblVehicleEF	MHD	9.7230e-003	0.01
tblVehicleEF	MHD	0.02	9.9910e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1000e-004	1.5040e-003
tblVehicleEF	MHD	8.5800e-003	0.01
tblVehicleEF	MHD	7.8000e-005	5.5000e-005
tblVehicleEF	MHD	1.0540e-003	0.02
tblVehicleEF	MHD	0.02	4.2250e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	5.5900e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	9.9910e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	3.4970e-003	0.02
tblVehicleEF	MHD	9.6400e-004	6.8810e-003
tblVehicleEF	MHD	7.8420e-003	5.4280e-003
tblVehicleEF	MHD	0.42	0.72
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.85	0.62
tblVehicleEF	MHD	64.75	167.33
tblVehicleEF	MHD	900.29	1,088.35
tblVehicleEF	MHD	8.01	5.63
tblVehicleEF	MHD	9.4140e-003	0.03

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tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.5240e-003	3.9650e-003
tblVehicleEF	MHD	0.37	0.90
tblVehicleEF	MHD	0.87	0.65
tblVehicleEF	MHD	1.74	1.48
tblVehicleEF	MHD	3.1900e-004	1.4400e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005
tblVehicleEF	MHD	3.0500e-004	1.3770e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	3.9400e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	2.3300e-004	0.00
tblVehicleEF	MHD	9.6260e-003	0.01
tblVehicleEF	MHD	0.02	9.8710e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1400e-004	1.5370e-003
tblVehicleEF	MHD	8.5800e-003	0.01
tblVehicleEF	MHD	7.9000e-005	5.6000e-005
tblVehicleEF	MHD	3.9400e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.3300e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	9.8710e-003

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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	OBUS	8.4050e-003	0.02
tblVehicleEF	OBUS	3.3940e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.52	0.51
tblVehicleEF	OBUS	0.41	0.67
tblVehicleEF	OBUS	2.22	2.58
tblVehicleEF	OBUS	71.13	70.55
tblVehicleEF	OBUS	1,246.29	1,346.11
tblVehicleEF	OBUS	18.79	21.62
tblVehicleEF	OBUS	9.2540e-003	9.4290e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.27	0.26
tblVehicleEF	OBUS	0.78	1.00
tblVehicleEF	OBUS	0.78	0.69
tblVehicleEF	OBUS	9.1000e-005	4.5000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	8.7000e-005	4.3000e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02
tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	2.5200e-003	0.13
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	1.1050e-003	0.00
tblVehicleEF	OBUS	0.02	0.05

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tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.7800e-004	6.2900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.1400e-004
tblVehicleEF	OBUS	2.5200e-003	0.13
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	1.1050e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.4810e-003	0.02
tblVehicleEF	OBUS	3.4670e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.52	0.50
tblVehicleEF	OBUS	0.41	0.68
tblVehicleEF	OBUS	2.08	2.40
tblVehicleEF	OBUS	70.35	70.02
tblVehicleEF	OBUS	1,246.30	1,346.13
tblVehicleEF	OBUS	18.55	21.31
tblVehicleEF	OBUS	9.1360e-003	9.3490e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.26	0.25
tblVehicleEF	OBUS	0.73	0.93
tblVehicleEF	OBUS	0.77	0.68
tblVehicleEF	OBUS	8.1000e-005	3.8600e-004
tblVehicleEF	OBUS	0.13	0.05

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tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	7.7000e-005	3.6900e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02
tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	4.5960e-003	0.17
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.0760e-003	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	6.7100e-004	6.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8400e-004	2.1100e-004
tblVehicleEF	OBUS	4.5960e-003	0.17
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	2.0760e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.3290e-003	0.02
tblVehicleEF	OBUS	3.3710e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.53	0.52
tblVehicleEF	OBUS	0.40	0.67
tblVehicleEF	OBUS	2.24	2.57

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tblVehicleEF	OBUS	72.21	71.30
tblVehicleEF	OBUS	1,246.29	1,346.11
tblVehicleEF	OBUS	18.83	21.60
tblVehicleEF	OBUS	9.4230e-003	9.5470e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.29	0.27
tblVehicleEF	OBUS	0.78	0.98
tblVehicleEF	OBUS	0.78	0.68
tblVehicleEF	OBUS	1.0500e-004	5.3900e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	1.0000e-004	5.1500e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02
tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	2.2040e-003	0.14
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	1.0340e-003	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.8800e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.1400e-004
tblVehicleEF	OBUS	2.2040e-003	0.14
tblVehicleEF	OBUS	0.02	0.03

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tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	1.0340e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	SBUS	0.08	0.51
tblVehicleEF	SBUS	5.5200e-003	1.36
tblVehicleEF	SBUS	7.3930e-003	7.7090e-003
tblVehicleEF	SBUS	3.25	3.05
tblVehicleEF	SBUS	0.45	5.22
tblVehicleEF	SBUS	0.94	0.98
tblVehicleEF	SBUS	354.78	271.75
tblVehicleEF	SBUS	1,057.65	1,223.93
tblVehicleEF	SBUS	6.15	6.23
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	0.13	0.16
tblVehicleEF	SBUS	7.4230e-003	7.2280e-003
tblVehicleEF	SBUS	3.05	1.19
tblVehicleEF	SBUS	3.89	2.35
tblVehicleEF	SBUS	0.98	0.17
tblVehicleEF	SBUS	2.7150e-003	1.4160e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.5970e-003	1.3400e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005

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tblVehicleEF	SBUS	1.7830e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	8.7100e-004	0.00
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	3.3900e-003	1.4080e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	6.1000e-005	6.2000e-005
tblVehicleEF	SBUS	1.7830e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	8.7100e-004	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	0.08	0.51
tblVehicleEF	SBUS	5.5830e-003	1.36
tblVehicleEF	SBUS	6.2000e-003	6.4280e-003
tblVehicleEF	SBUS	3.22	3.04
tblVehicleEF	SBUS	0.46	5.23
tblVehicleEF	SBUS	0.68	0.70
tblVehicleEF	SBUS	362.08	274.92
tblVehicleEF	SBUS	1,057.66	1,223.95
tblVehicleEF	SBUS	5.72	5.76
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	0.12	0.16
tblVehicleEF	SBUS	7.1800e-003	6.9590e-003

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tblVehicleEF	SBUS	3.11	1.22
tblVehicleEF	SBUS	3.66	2.20
tblVehicleEF	SBUS	0.97	0.17
tblVehicleEF	SBUS	2.2970e-003	1.2590e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.1970e-003	1.1900e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005
tblVehicleEF	SBUS	3.2020e-003	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	1.5880e-003	0.00
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	3.4590e-003	1.4380e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	3.2020e-003	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	1.5880e-003	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.08	0.51

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tblVehicleEF	SBUS	5.5110e-003	1.36
tblVehicleEF	SBUS	7.6670e-003	7.8450e-003
tblVehicleEF	SBUS	3.29	3.07
tblVehicleEF	SBUS	0.45	5.22
tblVehicleEF	SBUS	0.99	1.00
tblVehicleEF	SBUS	344.70	267.36
tblVehicleEF	SBUS	1,057.65	1,223.93
tblVehicleEF	SBUS	6.23	6.27
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.13	0.16
tblVehicleEF	SBUS	7.5280e-003	7.2910e-003
tblVehicleEF	SBUS	2.97	1.15
tblVehicleEF	SBUS	3.86	2.31
tblVehicleEF	SBUS	0.98	0.17
tblVehicleEF	SBUS	3.2920e-003	1.6330e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	3.1500e-003	1.5470e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005
tblVehicleEF	SBUS	1.5040e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	8.3300e-004	0.00
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02

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tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	3.2950e-003	1.3660e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	1.5040e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	8.3300e-004	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50
tblVehicleEF	UBUS	1.44	2.81
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.65	27.13
tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.31	0.48
tblVehicleEF	UBUS	0.15	0.27
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004
tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003
tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.0760e-003	0.06

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tblVehicleEF	UBUS	7.9910e-003	0.02
tblVehicleEF	UBUS	6.3100e-004	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	8.6200e-004	1.2520e-003
tblVehicleEF	UBUS	0.07	0.14
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6500e-004	2.6800e-004
tblVehicleEF	UBUS	1.0760e-003	0.06
tblVehicleEF	UBUS	7.9910e-003	0.02
tblVehicleEF	UBUS	6.3100e-004	0.00
tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	8.6200e-004	1.2520e-003
tblVehicleEF	UBUS	0.07	0.15
tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50
tblVehicleEF	UBUS	1.22	2.39
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.28	26.42
tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.30	0.47
tblVehicleEF	UBUS	0.15	0.25
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004
tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003

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

tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.9350e-003	0.09
tblVehicleEF	UBUS	9.6880e-003	0.02
tblVehicleEF	UBUS	1.3100e-003	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	8.3800e-004	1.3110e-003
tblVehicleEF	UBUS	0.06	0.13
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6100e-004	2.6100e-004
tblVehicleEF	UBUS	1.9350e-003	0.09
tblVehicleEF	UBUS	9.6880e-003	0.02
tblVehicleEF	UBUS	1.3100e-003	0.00
tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	8.3800e-004	1.3110e-003
tblVehicleEF	UBUS	0.07	0.14
tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50
tblVehicleEF	UBUS	1.43	2.79
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.63	27.10
tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.30	0.47
tblVehicleEF	UBUS	0.15	0.26
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004

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

tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003
tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.1530e-003	0.07
tblVehicleEF	UBUS	9.2230e-003	0.02
tblVehicleEF	UBUS	6.7300e-004	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	9.9400e-004	1.2930e-003
tblVehicleEF	UBUS	0.07	0.14
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6500e-004	2.6800e-004
tblVehicleEF	UBUS	1.1530e-003	0.07
tblVehicleEF	UBUS	9.2230e-003	0.02
tblVehicleEF	UBUS	6.7300e-004	0.00
tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	9.9400e-004	1.2930e-003
tblVehicleEF	UBUS	0.07	0.15
tblVehicleTrips	ST_TR	4.91	4.54
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	10.87
tblVehicleTrips	ST_TR	8.19	7.99
tblVehicleTrips	ST_TR	42.04	36.50
tblVehicleTrips	SU_TR	4.09	4.54
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	10.87
tblVehicleTrips	SU_TR	5.95	7.99
tblVehicleTrips	SU_TR	20.43	36.50

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tblVehicleTrips	WD_TR	5.44	4.54
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	10.87
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	44.32	36.50
tblWoodstoves	NumberCatalytic	81.35	0.00
tblWoodstoves	NumberNoncatalytic	81.35	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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

		Highest	
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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	9.8463	0.4800	16.9028	2.7200e-003		0.1163	0.1163		0.1163	0.1163	0.0000	359.5403	359.5403	0.0327	6.0900e-003	362.1722
Energy	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	5,418.1303	5,418.1303	0.2938	0.0757	5,448.0457
Mobile	6.0034	3.7051	55.7064	0.1128	11.6958	0.0553	11.7511	2.9062	0.0509	2.9571	0.0000	10,352.8742	10,352.8742	0.5347	0.3386	10,467.1531
Waste						0.0000	0.0000		0.0000	0.0000	198.3973	0.0000	198.3973	11.7249	0.0000	491.5209
Water						0.0000	0.0000		0.0000	0.0000	39.7508	441.0101	480.7609	4.1200	0.1009	613.8338
Total	16.1029	6.4187	74.0385	0.1293	11.6958	0.3465	12.0423	2.9062	0.3421	3.2483	238.1480	16,571.5549	16,809.7029	16.7062	0.5214	17,382.7257

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	9.8127	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Energy	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	5,418.1303	5,418.1303	0.2938	0.0757	5,448.0457
Mobile	5.3239	2.6122	37.5727	0.0660	6.7005	0.0354	6.7359	1.6650	0.0326	1.6976	0.0000	6,054.3910	6,054.3910	0.4254	0.2477	6,138.8336
Waste						0.0000	0.0000		0.0000	0.0000	198.3973	0.0000	198.3973	11.7249	0.0000	491.5209
Water						0.0000	0.0000		0.0000	0.0000	31.8006	373.8907	405.6913	3.2978	0.0810	512.2584
Total	15.3899	5.0390	55.7827	0.0807	6.7005	0.3035	7.0040	1.6650	0.3007	1.9656	230.1979	11,873.8547	12,104.0526	15.7683	0.4044	12,618.7597

	ROG	NOx	CO	SO2	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	4.43	21.49	24.66	37.62	42.71	12.42	41.84	42.71	12.12	39.49	3.34	28.35	27.99	5.61	22.44	27.41

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	3/14/2022	3/14/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 9.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Building Construction - 2022

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

	ROG	NOx	CO	SO2	Fugitive 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	5.3239	2.6122	37.5727	0.0660	6.7005	0.0354	6.7359	1.6650	0.0326	1.6976	0.0000	6,054.3910	6,054.3910	0.4254	0.2477	6,138.8336
Unmitigated	6.0034	3.7051	55.7064	0.1128	11.6958	0.0553	11.7511	2.9062	0.0509	2.9571	0.0000	10,352.8742	10,352.8742	0.5347	0.3386	10,467.1531

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	7,390.00	7,390.00	7390.00	25,252,753	14,467,193
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	652.00	652.00	652.00	2,100,393	1,203,306
Hotel	2,158.00	2,158.00	2158.00	5,149,357	2,950,044
Strip Mall	876.00	876.00	876.00	1,666,673	954,830
Total	11,076.00	11,076.00	11,076.00	34,169,176	19,575,373

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

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

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
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
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
City Park	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Enclosed Parking with Elevator	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
General Office Building	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Hotel	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Strip Mall	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,911.6808	2,911.6808	0.2458	0.0298	2,926.7017
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,911.6808	2,911.6808	0.2458	0.0298	2,926.7017
Natural Gas Mitigated	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440
Natural Gas Unmitigated	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440

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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	tons/yr										MT/yr					
Apartments Mid Rise	2.33998e+007	0.1262	1.0782	0.4588	6.8800e-003		0.0872	0.0872		0.0872	0.0872	0.0000	1,248.7019	1,248.7019	0.0239	0.0229	1,256.1224
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Strip Mall	52800	2.8000e-004	2.5900e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8176	2.8176	5.0000e-005	5.0000e-005	2.8344
Total		0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.33998e+007	0.1262	1.0782	0.4588	6.8800e-003		0.0872	0.0872		0.0872	0.0872	0.0000	1,248.7019	1,248.7019	0.0239	0.0229	1,256.1224
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Strip Mall	52800	2.8000e-004	2.5900e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8176	2.8176	5.0000e-005	5.0000e-005	2.8344
Total		0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	6.44294e+006	1,142.6260	0.0964	0.0117	1,148.5207
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.29133e+006	406.3568	0.0343	4.1600e-003	408.4531
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Strip Mall	291360	51.6714	4.3600e-003	5.3000e-004	51.9380
Total		2,911.6808	0.2458	0.0298	2,926.7017

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	6.44294e+006	1,142.6260	0.0964	0.0117	1,148.5207
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.29133e+006	406.3568	0.0343	4.1600e-003	408.4531
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Strip Mall	291360	51.6714	4.3600e-003	5.3000e-004	51.9380
Total		2,911.6808	0.2458	0.0298	2,926.7017

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.8127	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Unmitigated	9.8463	0.4800	16.9028	2.7200e-003		0.1163	0.1163		0.1163	0.1163	0.0000	359.5403	359.5403	0.0327	6.0900e-003	362.1722

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	0.8108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0336	0.2868	0.1220	1.8300e-003		0.0232	0.0232		0.0232	0.0232	0.0000	332.0977	332.0977	6.3700e-003	6.0900e-003	334.0711
Landscaping	0.5050	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Total	9.8463	0.4800	16.9028	2.7200e-003		0.1163	0.1163		0.1163	0.1163	0.0000	359.5403	359.5403	0.0327	6.0900e-003	362.1722

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.8108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5050	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Total	9.8127	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	405.6913	3.2978	0.0810	512.2584
Unmitigated	480.7609	4.1200	0.1009	613.8338

Moreno Valley Redevelopment Project - Operations - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Strip Mall	1.77774 / 1.08958	6.8160	0.0585	1.4300e-003	8.7041
Total		480.7609	4.1200	0.1009	613.8338

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	84.8045 / 62.753	346.3793	2.7903	0.0685	436.5554
City Park	0 / 1.65583	3.2625	2.8000e-004	3.0000e-005	3.2793
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.53122 / 6.13732	34.4994	0.2807	6.8900e-003	43.5692
Hotel	5.47922 / 0.714582	15.7990	0.1797	4.3600e-003	21.5913
Strip Mall	1.42219 / 1.02312	5.7512	0.0468	1.1500e-003	7.2632
Total		405.6913	3.2978	0.0810	512.2584

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	198.3973	11.7249	0.0000	491.5209
Unmitigated	198.3973	11.7249	0.0000	491.5209

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Strip Mall	25.2	5.1154	0.3023	0.0000	12.6731
Total		198.3973	11.7249	0.0000	491.5209

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Strip Mall	25.2	5.1154	0.3023	0.0000	12.6731
Total		198.3973	11.7249	0.0000	491.5209

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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

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

11.0 Vegetation

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

**Moreno Valley Redevelopment Project - Operations Mitigated
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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	60.00	1000sqft	1.38	60,000.00	0
Enclosed Parking with Elevator	1,053.00	Space	9.48	421,200.00	0
City Park	1.48	Acre	1.48	64,263.98	0
Hotel	270.00	Room	9.00	392,040.00	0
Apartments Mid Rise	1,627.00	Dwelling Unit	42.82	1,867,700.00	4653
Strip Mall	24.00	1000sqft	0.55	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - multi-family square feet based on site plan, other land uses conservatively use default settings which are higher, landscape area shown as park,

Construction Phase - Operations only Model, no construction

Off-road Equipment - operations only, no construction

Trips and VMT - Operations only Model, no construction

Vehicle Trips - residential trip rate $7,390/1,627 = 4.542102028272895$, Hotel rate $2158/270 = 7.992592592592593$, office rate $652/60 = 10.866666666666667$, mall addition $876/24 = 36.5$,

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Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Vehicle Emission Factors - EMFAC 2021 - Riverside County (SC)2026

Woodstoves - no wood burning per SCAQMD Rule 445

Consumer Products -

Area Coating - area mitigation

Mobile Land Use Mitigation - DU acres 583, Jobs acres 414

Mobile Commute Mitigation - TDM Mitigation

Area Mitigation - Area source mitigation

Energy Mitigation - Energy Mitigation

Water Mitigation -

Waste Mitigation - Recycling mitigation

Fleet Mix - modified fleet mix based on traffic study

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstructionPhase	NumDays	1,110.00	1.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	1,382.95	0.00
tblFireplaces	NumberNoFireplace	162.70	0.00
tblFireplaces	NumberWood	81.35	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00

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

tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD1	0.02	0.03
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00

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

tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	LHD2	6.9600e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MH	4.6890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	6.0800e-004	0.00

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

tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	OBUS	6.0800e-004	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	SBUS	1.0910e-003	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblFleetMix	UBUS	2.9800e-004	0.00
tblLandUse	LandUseSquareFeet	64,468.80	64,263.98
tblLandUse	LandUseSquareFeet	1,627,000.00	1,867,700.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	332.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,567.00	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.34	5.04

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tblVehicleEF	HHD	0.22	0.19
tblVehicleEF	HHD	2.2440e-003	2.0750e-003
tblVehicleEF	HHD	1,303.68	775.04
tblVehicleEF	HHD	1,185.67	1,500.37
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.21	0.12
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	6.75	3.98
tblVehicleEF	HHD	1.88	1.45
tblVehicleEF	HHD	2.39	2.76
tblVehicleEF	HHD	2.6250e-003	1.8450e-003
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.5110e-003	1.7600e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	1.0000e-006	1.2900e-004
tblVehicleEF	HHD	3.5000e-005	3.3000e-005
tblVehicleEF	HHD	0.56	0.33
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.3000e-005	3.4000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	7.0390e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.2900e-004

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

tblVehicleEF	HHD	3.5000e-005	3.3000e-005
tblVehicleEF	HHD	0.64	0.47
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	1.3000e-005	3.4000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.23	4.97
tblVehicleEF	HHD	0.23	0.19
tblVehicleEF	HHD	2.1300e-003	1.9580e-003
tblVehicleEF	HHD	1,286.98	765.93
tblVehicleEF	HHD	1,185.67	1,500.37
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.20	0.12
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	6.42	3.79
tblVehicleEF	HHD	1.77	1.38
tblVehicleEF	HHD	2.39	2.76
tblVehicleEF	HHD	2.3220e-003	1.6370e-003
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.2220e-003	1.5620e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.0000e-006	1.8300e-004

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

tblVehicleEF	HHD	3.9000e-005	3.6000e-005
tblVehicleEF	HHD	0.60	0.35
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.3000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	6.9530e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.8300e-004
tblVehicleEF	HHD	3.9000e-005	3.6000e-005
tblVehicleEF	HHD	0.68	0.49
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	1.3000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.11
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.49	5.13
tblVehicleEF	HHD	0.22	0.19
tblVehicleEF	HHD	2.2470e-003	2.0530e-003
tblVehicleEF	HHD	1,326.74	787.61
tblVehicleEF	HHD	1,185.67	1,500.37
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.21	0.13
tblVehicleEF	HHD	0.19	0.24
tblVehicleEF	HHD	1.0000e-006	4.0000e-006
tblVehicleEF	HHD	7.20	4.24
tblVehicleEF	HHD	1.86	1.43
tblVehicleEF	HHD	2.39	2.76

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

tblVehicleEF	HHD	3.0430e-003	2.1320e-003
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	2.9110e-003	2.0350e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8900e-003	8.7810e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	1.0000e-006	1.3100e-004
tblVehicleEF	HHD	3.8000e-005	3.3000e-005
tblVehicleEF	HHD	0.52	0.30
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.4000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.01	7.1580e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.0000e-006	1.3100e-004
tblVehicleEF	HHD	3.8000e-005	3.3000e-005
tblVehicleEF	HHD	0.59	0.44
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	1.4000e-005	3.6000e-005
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	LDA	1.3900e-003	1.7950e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.49	0.63
tblVehicleEF	LDA	1.78	2.42
tblVehicleEF	LDA	226.97	254.28

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

tblVehicleEF	LDA	46.78	63.08
tblVehicleEF	LDA	3.5640e-003	3.8500e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003
tblVehicleEF	LDA	0.05	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	4.8900e-003	6.4240e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.15	0.24
tblVehicleEF	LDA	2.2450e-003	2.5140e-003
tblVehicleEF	LDA	4.6300e-004	6.2400e-004
tblVehicleEF	LDA	0.05	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.04	0.00
tblVehicleEF	LDA	7.1090e-003	9.3600e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.16	0.27
tblVehicleEF	LDA	1.5850e-003	1.9070e-003
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.60	0.84
tblVehicleEF	LDA	1.58	2.03

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tblVehicleEF	LDA	246.66	275.38
tblVehicleEF	LDA	46.39	62.35
tblVehicleEF	LDA	3.3980e-003	3.4260e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.13	0.19
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003
tblVehicleEF	LDA	0.10	0.37
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.07	0.00
tblVehicleEF	LDA	5.5160e-003	6.7360e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.13	0.21
tblVehicleEF	LDA	2.4400e-003	2.7220e-003
tblVehicleEF	LDA	4.5900e-004	6.1600e-004
tblVehicleEF	LDA	0.10	0.37
tblVehicleEF	LDA	0.09	0.08
tblVehicleEF	LDA	0.07	0.00
tblVehicleEF	LDA	8.0220e-003	9.8150e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.14	0.23
tblVehicleEF	LDA	1.3420e-003	1.7830e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.46	0.59

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tblVehicleEF	LDA	1.82	2.40
tblVehicleEF	LDA	221.60	250.72
tblVehicleEF	LDA	46.84	63.05
tblVehicleEF	LDA	3.4590e-003	3.7410e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.14	0.20
tblVehicleEF	LDA	0.04	6.8120e-003
tblVehicleEF	LDA	1.1390e-003	1.1350e-003
tblVehicleEF	LDA	1.5610e-003	1.8510e-003
tblVehicleEF	LDA	0.02	2.3840e-003
tblVehicleEF	LDA	1.0480e-003	1.0440e-003
tblVehicleEF	LDA	1.4360e-003	1.7020e-003
tblVehicleEF	LDA	0.04	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.7260e-003	6.3810e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.15	0.24
tblVehicleEF	LDA	2.1920e-003	2.4780e-003
tblVehicleEF	LDA	4.6400e-004	6.2300e-004
tblVehicleEF	LDA	0.04	0.29
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	6.8700e-003	9.2970e-003
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	0.16	0.27
tblVehicleEF	LDT1	3.9800e-003	7.5830e-003
tblVehicleEF	LDT1	0.05	0.11

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tblVehicleEF	LDT1	0.94	1.67
tblVehicleEF	LDT1	1.97	5.32
tblVehicleEF	LDT1	273.46	328.61
tblVehicleEF	LDT1	57.18	85.64
tblVehicleEF	LDT1	6.1070e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	0.20	0.41
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003
tblVehicleEF	LDT1	0.02	2.9700e-003
tblVehicleEF	LDT1	1.4120e-003	1.8240e-003
tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.14	0.81
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.25	0.57
tblVehicleEF	LDT1	2.7060e-003	3.2490e-003
tblVehicleEF	LDT1	5.6600e-004	8.4700e-004
tblVehicleEF	LDT1	0.14	0.81
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.10	0.00
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.28	0.62
tblVehicleEF	LDT1	4.5000e-003	8.0280e-003

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tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	1.14	2.22
tblVehicleEF	LDT1	1.75	4.42
tblVehicleEF	LDT1	294.44	353.57
tblVehicleEF	LDT1	56.72	83.93
tblVehicleEF	LDT1	5.8110e-003	9.7840e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.13
tblVehicleEF	LDT1	0.19	0.38
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003
tblVehicleEF	LDT1	0.02	2.9700e-003
tblVehicleEF	LDT1	1.4120e-003	1.8240e-003
tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.28	1.04
tblVehicleEF	LDT1	0.21	0.22
tblVehicleEF	LDT1	0.19	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.22	0.48
tblVehicleEF	LDT1	2.9140e-003	3.4950e-003
tblVehicleEF	LDT1	5.6100e-004	8.3000e-004
tblVehicleEF	LDT1	0.28	1.04
tblVehicleEF	LDT1	0.21	0.22
tblVehicleEF	LDT1	0.19	0.00
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.24	0.53

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tblVehicleEF	LDT1	3.8250e-003	7.5320e-003
tblVehicleEF	LDT1	0.05	0.11
tblVehicleEF	LDT1	0.87	1.58
tblVehicleEF	LDT1	2.02	5.28
tblVehicleEF	LDT1	267.05	324.40
tblVehicleEF	LDT1	57.28	85.58
tblVehicleEF	LDT1	5.9500e-003	0.01
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.07	0.15
tblVehicleEF	LDT1	0.20	0.40
tblVehicleEF	LDT1	0.04	8.4870e-003
tblVehicleEF	LDT1	1.5350e-003	1.9820e-003
tblVehicleEF	LDT1	2.0570e-003	3.0340e-003
tblVehicleEF	LDT1	0.02	2.9700e-003
tblVehicleEF	LDT1	1.4120e-003	1.8240e-003
tblVehicleEF	LDT1	1.8920e-003	2.7890e-003
tblVehicleEF	LDT1	0.12	0.81
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.09	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.26	0.57
tblVehicleEF	LDT1	2.6430e-003	3.2070e-003
tblVehicleEF	LDT1	5.6700e-004	8.4600e-004
tblVehicleEF	LDT1	0.12	0.81
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.09	0.00
tblVehicleEF	LDT1	0.02	0.05
tblVehicleEF	LDT1	0.09	0.07

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tblVehicleEF	LDT1	0.28	0.62
tblVehicleEF	LDT2	2.5050e-003	2.4680e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.69	0.77
tblVehicleEF	LDT2	2.28	2.97
tblVehicleEF	LDT2	282.19	330.84
tblVehicleEF	LDT2	59.29	82.24
tblVehicleEF	LDT2	4.9570e-003	5.3210e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.20	0.27
tblVehicleEF	LDT2	0.04	8.0340e-003
tblVehicleEF	LDT2	1.2190e-003	1.2010e-003
tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.08	0.00
tblVehicleEF	LDT2	9.6580e-003	9.2330e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.22	0.31
tblVehicleEF	LDT2	2.7920e-003	3.2700e-003
tblVehicleEF	LDT2	5.8700e-004	8.1300e-004
tblVehicleEF	LDT2	0.09	0.30
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.08	0.00
tblVehicleEF	LDT2	0.01	0.01

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tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.34
tblVehicleEF	LDT2	2.8500e-003	2.6200e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.85	1.02
tblVehicleEF	LDT2	2.03	2.48
tblVehicleEF	LDT2	301.79	353.19
tblVehicleEF	LDT2	58.79	81.33
tblVehicleEF	LDT2	4.7400e-003	4.7480e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.19	0.26
tblVehicleEF	LDT2	0.04	8.0340e-003
tblVehicleEF	LDT2	1.2190e-003	1.2010e-003
tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.17	0.38
tblVehicleEF	LDT2	0.13	0.08
tblVehicleEF	LDT2	0.14	0.00
tblVehicleEF	LDT2	0.01	9.6820e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.19	0.26
tblVehicleEF	LDT2	2.9860e-003	3.4910e-003
tblVehicleEF	LDT2	5.8200e-004	8.0400e-004
tblVehicleEF	LDT2	0.17	0.38
tblVehicleEF	LDT2	0.13	0.08
tblVehicleEF	LDT2	0.14	0.00

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tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.21	0.29
tblVehicleEF	LDT2	2.4030e-003	2.4520e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.64	0.72
tblVehicleEF	LDT2	2.34	2.95
tblVehicleEF	LDT2	276.19	327.07
tblVehicleEF	LDT2	59.40	82.21
tblVehicleEF	LDT2	4.8280e-003	5.1750e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.20	0.27
tblVehicleEF	LDT2	0.04	8.0340e-003
tblVehicleEF	LDT2	1.2190e-003	1.2010e-003
tblVehicleEF	LDT2	1.6200e-003	1.9310e-003
tblVehicleEF	LDT2	0.02	2.8120e-003
tblVehicleEF	LDT2	1.1220e-003	1.1040e-003
tblVehicleEF	LDT2	1.4900e-003	1.7750e-003
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.11	0.07
tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	9.2730e-003	9.1700e-003
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.22	0.31
tblVehicleEF	LDT2	2.7320e-003	3.2330e-003
tblVehicleEF	LDT2	5.8800e-004	8.1300e-004
tblVehicleEF	LDT2	0.07	0.31
tblVehicleEF	LDT2	0.11	0.07

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tblVehicleEF	LDT2	0.06	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.05	0.02
tblVehicleEF	LDT2	0.24	0.34
tblVehicleEF	LHD1	4.2850e-003	4.5140e-003
tblVehicleEF	LHD1	3.2600e-003	1.9150e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.48
tblVehicleEF	LHD1	0.83	1.73
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.54	316.95
tblVehicleEF	LHD1	9.70	14.68
tblVehicleEF	LHD1	8.6900e-004	8.0200e-004
tblVehicleEF	LHD1	0.04	4.1540e-003
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.93	0.07
tblVehicleEF	LHD1	0.25	0.35
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	4.4260e-003
tblVehicleEF	LHD1	8.1560e-003	6.0100e-004
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.1060e-003
tblVehicleEF	LHD1	7.7850e-003	5.5300e-004
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004

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tblVehicleEF	LHD1	2.4640e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2690e-003	0.00
tblVehicleEF	LHD1	0.04	9.2130e-003
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	3.1330e-003
tblVehicleEF	LHD1	9.6000e-005	1.4500e-004
tblVehicleEF	LHD1	2.4640e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2690e-003	0.00
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	4.2960e-003	4.5310e-003
tblVehicleEF	LHD1	3.3020e-003	2.0830e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.14
tblVehicleEF	LHD1	0.80	1.64
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.54	216.88
tblVehicleEF	LHD1	9.63	14.53
tblVehicleEF	LHD1	8.7000e-004	8.0400e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.88	0.67
tblVehicleEF	LHD1	0.24	0.34
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	5.4860e-003
tblVehicleEF	LHD1	8.1560e-003	0.01
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.3720e-003
tblVehicleEF	LHD1	7.7850e-003	0.01
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004
tblVehicleEF	LHD1	4.5870e-003	0.14
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.3790e-003	0.00
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.17	0.06
tblVehicleEF	LHD1	0.05	0.08
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	2.0550e-003
tblVehicleEF	LHD1	9.5000e-005	1.4400e-004
tblVehicleEF	LHD1	4.5870e-003	0.14
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.3790e-003	0.00
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.17	0.06

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tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD1	4.2840e-003	4.5170e-003
tblVehicleEF	LHD1	3.2550e-003	2.0830e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	0.18
tblVehicleEF	LHD1	0.44	0.14
tblVehicleEF	LHD1	0.84	1.72
tblVehicleEF	LHD1	9.02	8.92
tblVehicleEF	LHD1	594.53	216.88
tblVehicleEF	LHD1	9.71	14.66
tblVehicleEF	LHD1	8.6900e-004	8.0300e-004
tblVehicleEF	LHD1	0.04	0.03
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.92	0.70
tblVehicleEF	LHD1	0.25	0.35
tblVehicleEF	LHD1	1.0100e-003	9.0100e-004
tblVehicleEF	LHD1	0.08	0.04
tblVehicleEF	LHD1	0.01	5.4860e-003
tblVehicleEF	LHD1	8.1560e-003	0.01
tblVehicleEF	LHD1	1.9700e-004	1.6100e-004
tblVehicleEF	LHD1	9.6600e-004	8.6200e-004
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	2.5110e-003	1.3720e-003
tblVehicleEF	LHD1	7.7850e-003	0.01
tblVehicleEF	LHD1	1.8100e-004	1.4800e-004
tblVehicleEF	LHD1	2.1280e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.02	0.02

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tblVehicleEF	LHD1	1.1510e-003	0.00
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.18	0.06
tblVehicleEF	LHD1	0.05	0.09
tblVehicleEF	LHD1	8.7000e-005	8.6000e-005
tblVehicleEF	LHD1	5.7810e-003	2.0550e-003
tblVehicleEF	LHD1	9.6000e-005	1.4500e-004
tblVehicleEF	LHD1	2.1280e-003	0.12
tblVehicleEF	LHD1	0.07	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1510e-003	0.00
tblVehicleEF	LHD1	0.05	0.05
tblVehicleEF	LHD1	0.18	0.06
tblVehicleEF	LHD1	0.06	0.09
tblVehicleEF	LHD2	2.7640e-003	2.5080e-003
tblVehicleEF	LHD2	2.6030e-003	5.4400e-004
tblVehicleEF	LHD2	6.4920e-003	9.0070e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.17
tblVehicleEF	LHD2	0.48	0.86
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	171.91
tblVehicleEF	LHD2	6.62	7.42
tblVehicleEF	LHD2	1.8460e-003	1.9070e-003
tblVehicleEF	LHD2	0.06	1.9320e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.05	0.03
tblVehicleEF	LHD2	0.16	0.18

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tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.02
tblVehicleEF	LHD2	0.01	2.1700e-003
tblVehicleEF	LHD2	0.01	2.5300e-004
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	8.4250e-003
tblVehicleEF	LHD2	2.7190e-003	5.4300e-004
tblVehicleEF	LHD2	0.01	2.3300e-004
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	1.3200e-003	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	7.1200e-004	0.00
tblVehicleEF	LHD2	0.04	2.3740e-003
tblVehicleEF	LHD2	0.08	0.02
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	1.7000e-003
tblVehicleEF	LHD2	6.6000e-005	7.3000e-005
tblVehicleEF	LHD2	1.3200e-003	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.1200e-004	0.00
tblVehicleEF	LHD2	0.05	3.4650e-003
tblVehicleEF	LHD2	0.08	0.02
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7710e-003	2.5170e-003
tblVehicleEF	LHD2	2.6180e-003	3.0790e-003

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tblVehicleEF	LHD2	6.2730e-003	8.6680e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.18
tblVehicleEF	LHD2	0.45	0.82
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	422.91
tblVehicleEF	LHD2	6.58	7.34
tblVehicleEF	LHD2	1.8470e-003	1.9080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.99	0.85
tblVehicleEF	LHD2	0.15	0.17
tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.07
tblVehicleEF	LHD2	0.01	8.8530e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	2.7190e-003	2.2130e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	2.4810e-003	0.07
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	1.3230e-003	0.00
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	LHD2	0.08	0.03

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tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	4.0070e-003
tblVehicleEF	LHD2	6.5000e-005	7.3000e-005
tblVehicleEF	LHD2	2.4810e-003	0.07
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3230e-003	0.00
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.7630e-003	2.5090e-003
tblVehicleEF	LHD2	2.5990e-003	3.0790e-003
tblVehicleEF	LHD2	6.5370e-003	8.9490e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.34	0.18
tblVehicleEF	LHD2	0.48	0.86
tblVehicleEF	LHD2	14.23	14.45
tblVehicleEF	LHD2	594.26	422.91
tblVehicleEF	LHD2	6.63	7.41
tblVehicleEF	LHD2	1.8460e-003	1.9070e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	1.04	0.89
tblVehicleEF	LHD2	0.16	0.18
tblVehicleEF	LHD2	1.4850e-003	1.5170e-003
tblVehicleEF	LHD2	0.09	0.07
tblVehicleEF	LHD2	0.01	8.8530e-003

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.9000e-005	6.2000e-005
tblVehicleEF	LHD2	1.4210e-003	1.4510e-003
tblVehicleEF	LHD2	0.04	0.02
tblVehicleEF	LHD2	2.7190e-003	2.2130e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.1000e-005	5.7000e-005
tblVehicleEF	LHD2	9.9900e-004	0.06
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.9700e-004	0.00
tblVehicleEF	LHD2	0.04	0.07
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3800e-004
tblVehicleEF	LHD2	5.7240e-003	4.0070e-003
tblVehicleEF	LHD2	6.6000e-005	7.3000e-005
tblVehicleEF	LHD2	9.9900e-004	0.06
tblVehicleEF	LHD2	0.04	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.9700e-004	0.00
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.03
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.24	0.17
tblVehicleEF	MCY	18.21	12.72
tblVehicleEF	MCY	8.64	7.70
tblVehicleEF	MCY	208.24	188.15

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tblVehicleEF	MCY	59.22	46.82
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.5250e-003
tblVehicleEF	MCY	1.11	0.56
tblVehicleEF	MCY	0.26	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003
tblVehicleEF	MCY	1.68	2.49
tblVehicleEF	MCY	0.82	3.58
tblVehicleEF	MCY	0.90	0.00
tblVehicleEF	MCY	2.10	1.06
tblVehicleEF	MCY	0.46	1.33
tblVehicleEF	MCY	1.79	1.24
tblVehicleEF	MCY	2.0610e-003	1.8600e-003
tblVehicleEF	MCY	5.8600e-004	4.6300e-004
tblVehicleEF	MCY	1.68	2.49
tblVehicleEF	MCY	0.82	3.58
tblVehicleEF	MCY	0.90	0.00
tblVehicleEF	MCY	2.62	1.28
tblVehicleEF	MCY	0.46	1.33
tblVehicleEF	MCY	1.94	1.35
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.21	0.15
tblVehicleEF	MCY	18.86	12.86
tblVehicleEF	MCY	8.01	6.90

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tblVehicleEF	MCY	209.23	188.36
tblVehicleEF	MCY	57.61	45.06
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.01	7.3800e-003
tblVehicleEF	MCY	0.97	0.49
tblVehicleEF	MCY	0.25	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003
tblVehicleEF	MCY	3.33	3.64
tblVehicleEF	MCY	1.23	3.76
tblVehicleEF	MCY	2.04	0.00
tblVehicleEF	MCY	2.09	1.05
tblVehicleEF	MCY	0.46	1.39
tblVehicleEF	MCY	1.60	1.09
tblVehicleEF	MCY	2.0710e-003	1.8620e-003
tblVehicleEF	MCY	5.7000e-004	4.4600e-004
tblVehicleEF	MCY	3.33	3.64
tblVehicleEF	MCY	1.23	3.76
tblVehicleEF	MCY	2.04	0.00
tblVehicleEF	MCY	2.60	1.27
tblVehicleEF	MCY	0.46	1.39
tblVehicleEF	MCY	1.74	1.19
tblVehicleEF	MCY	0.31	0.16
tblVehicleEF	MCY	0.24	0.17
tblVehicleEF	MCY	17.80	12.54

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tblVehicleEF	MCY	8.61	7.53
tblVehicleEF	MCY	207.58	187.84
tblVehicleEF	MCY	59.21	46.47
tblVehicleEF	MCY	0.06	0.04
tblVehicleEF	MCY	0.02	7.5190e-003
tblVehicleEF	MCY	1.11	0.54
tblVehicleEF	MCY	0.26	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	1.9650e-003	1.8680e-003
tblVehicleEF	MCY	2.7270e-003	3.1930e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.8340e-003	1.7460e-003
tblVehicleEF	MCY	2.5560e-003	2.9950e-003
tblVehicleEF	MCY	1.59	2.59
tblVehicleEF	MCY	1.00	3.60
tblVehicleEF	MCY	0.72	0.00
tblVehicleEF	MCY	2.10	1.05
tblVehicleEF	MCY	0.52	1.43
tblVehicleEF	MCY	1.79	1.21
tblVehicleEF	MCY	2.0540e-003	1.8570e-003
tblVehicleEF	MCY	5.8600e-004	4.5900e-004
tblVehicleEF	MCY	1.59	2.59
tblVehicleEF	MCY	1.00	3.60
tblVehicleEF	MCY	0.72	0.00
tblVehicleEF	MCY	2.61	1.27
tblVehicleEF	MCY	0.52	1.43
tblVehicleEF	MCY	1.95	1.32
tblVehicleEF	MDV	3.0610e-003	3.5140e-003
tblVehicleEF	MDV	0.06	0.09

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tblVehicleEF	MDV	0.75	0.94
tblVehicleEF	MDV	2.53	3.36
tblVehicleEF	MDV	354.28	409.67
tblVehicleEF	MDV	73.99	101.49
tblVehicleEF	MDV	6.8880e-003	7.8940e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.25	0.37
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003
tblVehicleEF	MDV	0.02	2.9190e-003
tblVehicleEF	MDV	1.1600e-003	1.2330e-003
tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.12	0.43
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.10	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.28	0.43
tblVehicleEF	MDV	3.5020e-003	4.0470e-003
tblVehicleEF	MDV	7.3200e-004	1.0030e-003
tblVehicleEF	MDV	0.12	0.43
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.10	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.30	0.47
tblVehicleEF	MDV	3.4860e-003	3.7310e-003

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tblVehicleEF	MDV	0.05	0.08
tblVehicleEF	MDV	0.92	1.25
tblVehicleEF	MDV	2.23	2.80
tblVehicleEF	MDV	374.80	432.81
tblVehicleEF	MDV	73.40	100.41
tblVehicleEF	MDV	6.6270e-003	7.1270e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.24	0.34
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003
tblVehicleEF	MDV	0.02	2.9190e-003
tblVehicleEF	MDV	1.1600e-003	1.2330e-003
tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.22	0.52
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.18	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.24	0.37
tblVehicleEF	MDV	3.7050e-003	4.2760e-003
tblVehicleEF	MDV	7.2600e-004	9.9300e-004
tblVehicleEF	MDV	0.22	0.52
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	0.18	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.03
tblVehicleEF	MDV	0.27	0.40

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tblVehicleEF	MDV	2.9380e-003	3.4900e-003
tblVehicleEF	MDV	0.06	0.09
tblVehicleEF	MDV	0.70	0.88
tblVehicleEF	MDV	2.59	3.33
tblVehicleEF	MDV	348.03	405.76
tblVehicleEF	MDV	74.10	101.46
tblVehicleEF	MDV	6.7340e-003	7.6980e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.25	0.37
tblVehicleEF	MDV	0.04	8.3400e-003
tblVehicleEF	MDV	1.2580e-003	1.3360e-003
tblVehicleEF	MDV	1.6330e-003	2.0170e-003
tblVehicleEF	MDV	0.02	2.9190e-003
tblVehicleEF	MDV	1.1600e-003	1.2330e-003
tblVehicleEF	MDV	1.5010e-003	1.8550e-003
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.09	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.07	0.03
tblVehicleEF	MDV	0.28	0.43
tblVehicleEF	MDV	3.4400e-003	4.0090e-003
tblVehicleEF	MDV	7.3300e-004	1.0030e-003
tblVehicleEF	MDV	0.09	0.43
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.09	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.03

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tblVehicleEF	MDV	0.31	0.47
tblVehicleEF	MH	6.2700e-003	6.6450e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.69	0.72
tblVehicleEF	MH	1.72	2.05
tblVehicleEF	MH	1,362.78	1,515.66
tblVehicleEF	MH	16.59	21.02
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.39	1.46
tblVehicleEF	MH	0.23	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	0.92	32.51
tblVehicleEF	MH	0.05	7.39
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.01	2.0590e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.92	32.51
tblVehicleEF	MH	0.05	7.39

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tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	2.0590e-003
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	6.3920e-003	6.7810e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.71	0.74
tblVehicleEF	MH	1.60	1.91
tblVehicleEF	MH	1,362.80	1,515.69
tblVehicleEF	MH	16.40	20.78
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.30	1.37
tblVehicleEF	MH	0.22	0.29
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	1.67	40.27
tblVehicleEF	MH	0.06	7.97
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.01	2.1260e-003
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	1.6200e-004	2.0500e-004
tblVehicleEF	MH	1.67	40.27
tblVehicleEF	MH	0.06	7.97
tblVehicleEF	MH	0.67	0.00
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.01	2.1260e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	6.2570e-003	6.6560e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.69	0.72
tblVehicleEF	MH	1.73	2.05
tblVehicleEF	MH	1,362.78	1,515.66
tblVehicleEF	MH	16.61	21.01
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.38	1.44
tblVehicleEF	MH	0.23	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	2.0100e-004	2.3400e-004
tblVehicleEF	MH	0.06	0.01
tblVehicleEF	MH	3.3180e-003	3.3130e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.8500e-004	2.1500e-004
tblVehicleEF	MH	0.87	32.67
tblVehicleEF	MH	0.06	7.39
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.04	0.05

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tblVehicleEF	MH	0.01	2.1050e-003
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.6400e-004	2.0800e-004
tblVehicleEF	MH	0.87	32.67
tblVehicleEF	MH	0.06	7.39
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.01	2.1050e-003
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MHD	3.2690e-003	0.02
tblVehicleEF	MHD	9.7500e-004	6.8800e-003
tblVehicleEF	MHD	7.7720e-003	5.4780e-003
tblVehicleEF	MHD	0.35	0.66
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.84	0.62
tblVehicleEF	MHD	64.48	165.28
tblVehicleEF	MHD	900.30	1,088.35
tblVehicleEF	MHD	7.99	5.64
tblVehicleEF	MHD	9.3230e-003	0.03
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.4790e-003	3.9890e-003
tblVehicleEF	MHD	0.35	0.86
tblVehicleEF	MHD	0.88	0.67
tblVehicleEF	MHD	1.74	1.49
tblVehicleEF	MHD	2.6600e-004	1.1960e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005

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tblVehicleEF	MHD	2.5400e-004	1.1440e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	5.5300e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	2.9600e-004	0.00
tblVehicleEF	MHD	9.6690e-003	0.01
tblVehicleEF	MHD	0.01	9.6690e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1200e-004	1.5180e-003
tblVehicleEF	MHD	8.5800e-003	0.01
tblVehicleEF	MHD	7.9000e-005	5.6000e-005
tblVehicleEF	MHD	5.5300e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.9600e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.01	9.6690e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	3.1120e-003	0.02
tblVehicleEF	MHD	9.8800e-004	6.8950e-003
tblVehicleEF	MHD	7.5230e-003	5.2660e-003
tblVehicleEF	MHD	0.31	0.62
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.80	0.59
tblVehicleEF	MHD	64.28	163.79
tblVehicleEF	MHD	900.30	1,088.35

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tblVehicleEF	MHD	7.92	5.58
tblVehicleEF	MHD	9.2600e-003	0.03
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.4040e-003	3.9140e-003
tblVehicleEF	MHD	0.34	0.83
tblVehicleEF	MHD	0.83	0.63
tblVehicleEF	MHD	1.74	1.48
tblVehicleEF	MHD	2.2700e-004	1.0200e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005
tblVehicleEF	MHD	2.1700e-004	9.7500e-004
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	1.0540e-003	0.02
tblVehicleEF	MHD	0.02	4.2250e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	5.5900e-004	0.00
tblVehicleEF	MHD	9.7230e-003	0.01
tblVehicleEF	MHD	0.02	9.9910e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1000e-004	1.5040e-003
tblVehicleEF	MHD	8.5800e-003	0.01
tblVehicleEF	MHD	7.8000e-005	5.5000e-005
tblVehicleEF	MHD	1.0540e-003	0.02
tblVehicleEF	MHD	0.02	4.2250e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	5.5900e-004	0.00

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tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	9.9910e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	3.4970e-003	0.02
tblVehicleEF	MHD	9.6400e-004	6.8810e-003
tblVehicleEF	MHD	7.8420e-003	5.4280e-003
tblVehicleEF	MHD	0.42	0.72
tblVehicleEF	MHD	0.13	0.14
tblVehicleEF	MHD	0.85	0.62
tblVehicleEF	MHD	64.75	167.33
tblVehicleEF	MHD	900.29	1,088.35
tblVehicleEF	MHD	8.01	5.63
tblVehicleEF	MHD	9.4140e-003	0.03
tblVehicleEF	MHD	0.12	0.15
tblVehicleEF	MHD	6.5240e-003	3.9650e-003
tblVehicleEF	MHD	0.37	0.90
tblVehicleEF	MHD	0.87	0.65
tblVehicleEF	MHD	1.74	1.48
tblVehicleEF	MHD	3.1900e-004	1.4400e-003
tblVehicleEF	MHD	0.13	0.04
tblVehicleEF	MHD	9.4320e-003	8.6070e-003
tblVehicleEF	MHD	9.2000e-005	6.1000e-005
tblVehicleEF	MHD	3.0500e-004	1.3770e-003
tblVehicleEF	MHD	0.06	0.01
tblVehicleEF	MHD	9.0210e-003	8.2320e-003
tblVehicleEF	MHD	8.5000e-005	5.6000e-005
tblVehicleEF	MHD	3.9400e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.02

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tblVehicleEF	MHD	2.3300e-004	0.00
tblVehicleEF	MHD	9.6260e-003	0.01
tblVehicleEF	MHD	0.02	9.8710e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.1400e-004	1.5370e-003
tblVehicleEF	MHD	8.5800e-003	0.01
tblVehicleEF	MHD	7.9000e-005	5.6000e-005
tblVehicleEF	MHD	3.9400e-004	0.02
tblVehicleEF	MHD	0.02	3.9230e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	2.3300e-004	0.00
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.02	9.8710e-003
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	OBUS	8.4050e-003	0.02
tblVehicleEF	OBUS	3.3940e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.52	0.51
tblVehicleEF	OBUS	0.41	0.67
tblVehicleEF	OBUS	2.22	2.58
tblVehicleEF	OBUS	71.13	70.55
tblVehicleEF	OBUS	1,246.29	1,346.11
tblVehicleEF	OBUS	18.79	21.62
tblVehicleEF	OBUS	9.2540e-003	9.4290e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.27	0.26
tblVehicleEF	OBUS	0.78	1.00
tblVehicleEF	OBUS	0.78	0.69

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tblVehicleEF	OBUS	9.1000e-005	4.5000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	8.7000e-005	4.3000e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02
tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	2.5200e-003	0.13
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	1.1050e-003	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.7800e-004	6.2900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.1400e-004
tblVehicleEF	OBUS	2.5200e-003	0.13
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	1.1050e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	OBUS	8.4810e-003	0.02
tblVehicleEF	OBUS	3.4670e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.52	0.50

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tblVehicleEF	OBUS	0.41	0.68
tblVehicleEF	OBUS	2.08	2.40
tblVehicleEF	OBUS	70.35	70.02
tblVehicleEF	OBUS	1,246.30	1,346.13
tblVehicleEF	OBUS	18.55	21.31
tblVehicleEF	OBUS	9.1360e-003	9.3490e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.26	0.25
tblVehicleEF	OBUS	0.73	0.93
tblVehicleEF	OBUS	0.77	0.68
tblVehicleEF	OBUS	8.1000e-005	3.8600e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	7.7000e-005	3.6900e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02
tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	4.5960e-003	0.17
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	2.0760e-003	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.10	0.12
tblVehicleEF	OBUS	6.7100e-004	6.2400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8400e-004	2.1100e-004

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tblVehicleEF	OBUS	4.5960e-003	0.17
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	2.0760e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	8.3290e-003	0.02
tblVehicleEF	OBUS	3.3710e-003	0.04
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.53	0.52
tblVehicleEF	OBUS	0.40	0.67
tblVehicleEF	OBUS	2.24	2.57
tblVehicleEF	OBUS	72.21	71.30
tblVehicleEF	OBUS	1,246.29	1,346.11
tblVehicleEF	OBUS	18.83	21.60
tblVehicleEF	OBUS	9.4230e-003	9.5470e-003
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.29	0.27
tblVehicleEF	OBUS	0.78	0.98
tblVehicleEF	OBUS	0.78	0.68
tblVehicleEF	OBUS	1.0500e-004	5.3900e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	8.2900e-003	0.02
tblVehicleEF	OBUS	2.0200e-004	1.8500e-004
tblVehicleEF	OBUS	1.0000e-004	5.1500e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.9170e-003	0.02

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tblVehicleEF	OBUS	1.8600e-004	1.7000e-004
tblVehicleEF	OBUS	2.2040e-003	0.14
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	1.0340e-003	0.00
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	6.8800e-004	6.3600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.8600e-004	2.1400e-004
tblVehicleEF	OBUS	2.2040e-003	0.14
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.06	0.07
tblVehicleEF	OBUS	1.0340e-003	0.00
tblVehicleEF	OBUS	0.03	0.09
tblVehicleEF	OBUS	0.08	0.05
tblVehicleEF	OBUS	0.12	0.14
tblVehicleEF	SBUS	0.08	0.51
tblVehicleEF	SBUS	5.5200e-003	1.36
tblVehicleEF	SBUS	7.3930e-003	7.7090e-003
tblVehicleEF	SBUS	3.25	3.05
tblVehicleEF	SBUS	0.45	5.22
tblVehicleEF	SBUS	0.94	0.98
tblVehicleEF	SBUS	354.78	271.75
tblVehicleEF	SBUS	1,057.65	1,223.93
tblVehicleEF	SBUS	6.15	6.23
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	0.13	0.16

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tblVehicleEF	SBUS	7.4230e-003	7.2280e-003
tblVehicleEF	SBUS	3.05	1.19
tblVehicleEF	SBUS	3.89	2.35
tblVehicleEF	SBUS	0.98	0.17
tblVehicleEF	SBUS	2.7150e-003	1.4160e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.5970e-003	1.3400e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005
tblVehicleEF	SBUS	1.7830e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	8.7100e-004	0.00
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	3.3900e-003	1.4080e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	6.1000e-005	6.2000e-005
tblVehicleEF	SBUS	1.7830e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	8.7100e-004	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02

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tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	0.08	0.51
tblVehicleEF	SBUS	5.5830e-003	1.36
tblVehicleEF	SBUS	6.2000e-003	6.4280e-003
tblVehicleEF	SBUS	3.22	3.04
tblVehicleEF	SBUS	0.46	5.23
tblVehicleEF	SBUS	0.68	0.70
tblVehicleEF	SBUS	362.08	274.92
tblVehicleEF	SBUS	1,057.66	1,223.95
tblVehicleEF	SBUS	5.72	5.76
tblVehicleEF	SBUS	0.05	0.04
tblVehicleEF	SBUS	0.12	0.16
tblVehicleEF	SBUS	7.1800e-003	6.9590e-003
tblVehicleEF	SBUS	3.11	1.22
tblVehicleEF	SBUS	3.66	2.20
tblVehicleEF	SBUS	0.97	0.17
tblVehicleEF	SBUS	2.2970e-003	1.2590e-003
tblVehicleEF	SBUS	0.74	0.05
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	2.1970e-003	1.1900e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005
tblVehicleEF	SBUS	3.2020e-003	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	1.5880e-003	0.00

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tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	3.4590e-003	1.4380e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	3.2020e-003	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	1.5880e-003	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.08	0.51
tblVehicleEF	SBUS	5.5110e-003	1.36
tblVehicleEF	SBUS	7.6670e-003	7.8450e-003
tblVehicleEF	SBUS	3.29	3.07
tblVehicleEF	SBUS	0.45	5.22
tblVehicleEF	SBUS	0.99	1.00
tblVehicleEF	SBUS	344.70	267.36
tblVehicleEF	SBUS	1,057.65	1,223.93
tblVehicleEF	SBUS	6.23	6.27
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.13	0.16
tblVehicleEF	SBUS	7.5280e-003	7.2910e-003
tblVehicleEF	SBUS	2.97	1.15
tblVehicleEF	SBUS	3.86	2.31
tblVehicleEF	SBUS	0.98	0.17
tblVehicleEF	SBUS	3.2920e-003	1.6330e-003
tblVehicleEF	SBUS	0.74	0.05

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

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	3.1500e-003	1.5470e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.6480e-003	2.5540e-003
tblVehicleEF	SBUS	0.02	0.01
tblVehicleEF	SBUS	4.6000e-005	4.7000e-005
tblVehicleEF	SBUS	1.5040e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.37	0.30
tblVehicleEF	SBUS	8.3300e-004	0.00
tblVehicleEF	SBUS	0.08	0.08
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.04	0.05
tblVehicleEF	SBUS	3.2950e-003	1.3660e-003
tblVehicleEF	SBUS	0.01	7.0020e-003
tblVehicleEF	SBUS	1.5040e-003	0.08
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.54	0.89
tblVehicleEF	SBUS	8.3300e-004	0.00
tblVehicleEF	SBUS	0.09	1.46
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50
tblVehicleEF	UBUS	1.44	2.81
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.65	27.13

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

tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.31	0.48
tblVehicleEF	UBUS	0.15	0.27
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004
tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003
tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.0760e-003	0.06
tblVehicleEF	UBUS	7.9910e-003	0.02
tblVehicleEF	UBUS	6.3100e-004	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	8.6200e-004	1.2520e-003
tblVehicleEF	UBUS	0.07	0.14
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6500e-004	2.6800e-004
tblVehicleEF	UBUS	1.0760e-003	0.06
tblVehicleEF	UBUS	7.9910e-003	0.02
tblVehicleEF	UBUS	6.3100e-004	0.00
tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	8.6200e-004	1.2520e-003
tblVehicleEF	UBUS	0.07	0.15
tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50

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

tblVehicleEF	UBUS	1.22	2.39
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.28	26.42
tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.30	0.47
tblVehicleEF	UBUS	0.15	0.25
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004
tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003
tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.9350e-003	0.09
tblVehicleEF	UBUS	9.6880e-003	0.02
tblVehicleEF	UBUS	1.3100e-003	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	8.3800e-004	1.3110e-003
tblVehicleEF	UBUS	0.06	0.13
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6100e-004	2.6100e-004
tblVehicleEF	UBUS	1.9350e-003	0.09
tblVehicleEF	UBUS	9.6880e-003	0.02
tblVehicleEF	UBUS	1.3100e-003	0.00
tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	8.3800e-004	1.3110e-003
tblVehicleEF	UBUS	0.07	0.14

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

tblVehicleEF	UBUS	3.36	0.93
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	26.11	16.50
tblVehicleEF	UBUS	1.43	2.79
tblVehicleEF	UBUS	1,572.01	1,771.46
tblVehicleEF	UBUS	16.63	27.10
tblVehicleEF	UBUS	0.23	0.25
tblVehicleEF	UBUS	0.02	0.03
tblVehicleEF	UBUS	0.30	0.47
tblVehicleEF	UBUS	0.15	0.26
tblVehicleEF	UBUS	0.09	0.11
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	2.8020e-003	6.5900e-004
tblVehicleEF	UBUS	2.1900e-004	1.9200e-004
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	5.4780e-003	5.8730e-003
tblVehicleEF	UBUS	2.6610e-003	6.1000e-004
tblVehicleEF	UBUS	2.0200e-004	1.7600e-004
tblVehicleEF	UBUS	1.1530e-003	0.07
tblVehicleEF	UBUS	9.2230e-003	0.02
tblVehicleEF	UBUS	6.7300e-004	0.00
tblVehicleEF	UBUS	0.05	0.02
tblVehicleEF	UBUS	9.9400e-004	1.2930e-003
tblVehicleEF	UBUS	0.07	0.14
tblVehicleEF	UBUS	4.4660e-003	5.5490e-003
tblVehicleEF	UBUS	1.6500e-004	2.6800e-004
tblVehicleEF	UBUS	1.1530e-003	0.07
tblVehicleEF	UBUS	9.2230e-003	0.02
tblVehicleEF	UBUS	6.7300e-004	0.00

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

tblVehicleEF	UBUS	3.43	0.95
tblVehicleEF	UBUS	9.9400e-004	1.2930e-003
tblVehicleEF	UBUS	0.07	0.15
tblVehicleTrips	ST_TR	4.91	4.54
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	10.87
tblVehicleTrips	ST_TR	8.19	7.99
tblVehicleTrips	ST_TR	42.04	36.50
tblVehicleTrips	SU_TR	4.09	4.54
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	10.87
tblVehicleTrips	SU_TR	5.95	7.99
tblVehicleTrips	SU_TR	20.43	36.50
tblVehicleTrips	WD_TR	5.44	4.54
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	10.87
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	44.32	36.50
tblWoodstoves	NumberCatalytic	81.35	0.00
tblWoodstoves	NumberNoncatalytic	81.35	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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

		Highest	
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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	9.7024	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Energy	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	5,418.1303	5,418.1303	0.2938	0.0757	5,448.0457
Mobile	6.0034	3.7051	55.7064	0.1128	11.6958	0.0553	11.7511	2.9062	0.0509	2.9571	0.0000	10,352.8742	10,352.8742	0.5347	0.3386	10,467.1531
Waste						0.0000	0.0000		0.0000	0.0000	198.3973	0.0000	198.3973	11.7249	0.0000	491.5209
Water						0.0000	0.0000		0.0000	0.0000	39.7508	441.0101	480.7609	4.1200	0.1009	613.8338
Total	15.9590	6.1319	73.9164	0.1275	11.6958	0.3233	12.0191	2.9062	0.3190	3.2252	238.1480	16,239.4572	16,477.6053	16.6998	0.5153	17,048.6546

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	9.4623	0.1534	12.7498	5.8000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	19.1975	19.1975	0.0138	0.0000	19.5420
Energy	0.2153	1.8960	1.1977	0.0117		0.1487	0.1487		0.1487	0.1487	0.0000	4,338.4523	4,338.4523	0.2272	0.0617	4,362.5030
Mobile	5.1337	2.3062	32.4952	0.0529	5.3018	0.0299	5.3316	1.3174	0.0275	1.3449	0.0000	4,850.8078	4,850.8078	0.3948	0.2222	4,926.8961
Waste						0.0000	0.0000		0.0000	0.0000	49.5993	0.0000	49.5993	2.9312	0.0000	122.8802
Water						0.0000	0.0000		0.0000	0.0000	31.8006	373.8907	405.6913	3.2978	0.0810	512.2584
Total	14.8113	4.3556	46.4427	0.0652	5.3018	0.2480	5.5497	1.3174	0.2456	1.5630	81.3999	9,582.3482	9,663.7481	6.8648	0.3648	9,944.0798

	ROG	NOx	CO	SO2	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	7.19	28.97	37.17	48.89	54.67	23.31	53.83	54.67	23.00	51.54	65.82	40.99	41.35	58.89	29.20	41.67

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	3/14/2022	3/14/2022	5	1	

Acres of Grading (Site Preparation Phase): 0

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.48

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 Building Construction - 2022

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Transit Accessibility
- Improve Pedestrian Network
- Implement Trip Reduction Program
- Employee Vanpool/Shuttle
- Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	5.1337	2.3062	32.4952	0.0529	5.3018	0.0299	5.3316	1.3174	0.0275	1.3449	0.0000	4,850.8078	4,850.8078	0.3948	0.2222	4,926.8961
Unmitigated	6.0034	3.7051	55.7064	0.1128	11.6958	0.0553	11.7511	2.9062	0.0509	2.9571	0.0000	10,352.8742	10,352.8742	0.5347	0.3386	10,467.1531

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	7,390.00	7,390.00	7390.00	25,252,753	11,675,106
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	652.00	652.00	652.00	2,100,393	895,784
Hotel	2,158.00	2,158.00	2158.00	5,149,357	2,204,150
Strip Mall	876.00	876.00	876.00	1,666,673	714,041
Total	11,076.00	11,076.00	11,076.00	34,169,176	15,489,082

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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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
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
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
City Park	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Enclosed Parking with Elevator	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
General Office Building	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Hotel	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000
Strip Mall	0.550222	0.063995	0.181756	0.141347	0.031986	0.000000	0.000000	0.000000	0.000000	0.000000	0.030695	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,208.1724	2,208.1724	0.1864	0.0226	2,219.5640
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,911.6808	2,911.6808	0.2458	0.0298	2,926.7017
NaturalGas Mitigated	0.2153	1.8960	1.1977	0.0117		0.1487	0.1487		0.1487	0.1487	0.0000	2,130.2798	2,130.2798	0.0408	0.0391	2,142.9390
NaturalGas Unmitigated	0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Apartments Mid Rise	2.33998e+007	0.1262	1.0782	0.4588	6.8800e-003		0.0872	0.0872		0.0872	0.0872	0.0000	1,248.7019	1,248.7019	0.0239	0.0229	1,256.1224
City Park	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
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	205800	1.1100e-003	0.0101	8.4700e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	10.9823	10.9823	2.1000e-004	2.0000e-004	11.0475
Hotel	2.33107e+007	0.1257	1.1427	0.9599	6.8600e-003		0.0868	0.0868		0.0868	0.0868	0.0000	1,243.9476	1,243.9476	0.0238	0.0228	1,251.3398
Strip Mall	52800	2.8000e-004	2.5900e-003	2.1700e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8176	2.8176	5.0000e-005	5.0000e-005	2.8344
Total		0.2533	2.2336	1.4293	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.4495	2,506.4495	0.0480	0.0460	2,521.3440

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.0682e+007	0.1115	0.9530	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	0.0000	1,103.6700	1,103.6700	0.0212	0.0202	1,110.2286
City Park	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
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	164640	8.9000e-004	8.0700e-003	6.7800e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7858	8.7858	1.7000e-004	1.6000e-004	8.8380
Hotel	1.90296e+007	0.1026	0.9328	0.7836	5.6000e-003		0.0709	0.0709		0.0709	0.0709	0.0000	1,015.4931	1,015.4931	0.0195	0.0186	1,021.5277
Strip Mall	43680	2.4000e-004	2.1400e-003	1.8000e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3309	2.3309	4.0000e-005	4.0000e-005	2.3448
Total		0.2153	1.8960	1.1977	0.0117		0.1487	0.1487		0.1487	0.1487	0.0000	2,130.2798	2,130.2798	0.0408	0.0391	2,142.9390

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	6.44294e+006	1,142.6260	0.0964	0.0117	1,148.5207
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.29133e+006	406.3568	0.0343	4.1600e-003	408.4531
General Office Building	551400	97.7883	8.2500e-003	1.0000e-003	98.2928
Hotel	6.8411e+006	1,213.2383	0.1024	0.0124	1,219.4971
Strip Mall	291360	51.6714	4.3600e-003	5.3000e-004	51.9380
Total		2,911.6808	0.2458	0.0298	2,926.7017

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	5.11153e+006	906.5078	0.0765	9.2700e-003	911.1843
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.59719e+006	283.2546	0.0239	2.9000e-003	284.7159
General Office Building	414816	73.5658	6.2100e-003	7.5000e-004	73.9453
Hotel	5.11032e+006	906.2925	0.0765	9.2700e-003	910.9679
Strip Mall	217382	38.5518	3.2500e-003	3.9000e-004	38.7507
Total		2,208.1724	0.1864	0.0226	2,219.5640

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Electric Lawnmower
- Use Electric Leafblower
- Use Electric Chainsaw
- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	9.4623	0.1534	12.7498	5.8000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	19.1975	19.1975	0.0138	0.0000	19.5420
Unmitigated	9.7024	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

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	0.7005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5050	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011
Total	9.7024	0.1933	16.7807	8.9000e-004		0.0931	0.0931		0.0931	0.0931	0.0000	27.4427	27.4427	0.0263	0.0000	28.1011

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.4969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2678	0.1534	12.7498	5.8000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	19.1975	19.1975	0.0138	0.0000	19.5420
Total	9.4623	0.1534	12.7498	5.8000e-004		0.0694	0.0694		0.0694	0.0694	0.0000	19.1975	19.1975	0.0138	0.0000	19.5420

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	405.6913	3.2978	0.0810	512.2584
Unmitigated	480.7609	4.1200	0.1009	613.8338

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	106.006 / 66.8296	410.0956	3.4860	0.0854	522.6977
City Park	0 / 1.76339	3.4744	2.9000e-004	4.0000e-005	3.4924
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	10.664 / 6.53602	40.8867	0.3507	8.5900e-003	52.2124
Hotel	6.84903 / 0.761003	19.4882	0.2246	5.4500e-003	26.7273
Strip Mall	1.77774 / 1.08958	6.8160	0.0585	1.4300e-003	8.7041
Total		480.7609	4.1200	0.1009	613.8338

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	84.8045 / 62.753	346.3793	2.7903	0.0685	436.5554
City Park	0 / 1.65583	3.2625	2.8000e-004	3.0000e-005	3.2793
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.53122 / 6.13732	34.4994	0.2807	6.8900e-003	43.5692
Hotel	5.47922 / 0.714582	15.7990	0.1797	4.3600e-003	21.5913
Strip Mall	1.42219 / 1.02312	5.7512	0.0468	1.1500e-003	7.2632
Total		405.6913	3.2978	0.0810	512.2584

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.5993	2.9312	0.0000	122.8802
Unmitigated	198.3973	11.7249	0.0000	491.5209

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	748.42	151.9225	8.9784	0.0000	376.3816
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	55.8	11.3269	0.6694	0.0000	28.0619
Hotel	147.82	30.0061	1.7733	0.0000	74.3389
Strip Mall	25.2	5.1154	0.3023	0.0000	12.6731
Total		198.3973	11.7249	0.0000	491.5209

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	187.105	37.9806	2.2446	0.0000	94.0954
City Park	0.0325	6.6000e-003	3.9000e-004	0.0000	0.0163
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	13.95	2.8317	0.1674	0.0000	7.0155
Hotel	36.955	7.5015	0.4433	0.0000	18.5847
Strip Mall	6.3	1.2788	0.0756	0.0000	3.1683
Total		49.5993	2.9312	0.0000	122.8802

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Moreno Valley Redevelopment Project - Operations Mitigated - Riverside-South Coast County, Annual

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

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

Equipment Type	Number
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11.0 Vegetation
