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Mr. Don Bloodworth  
Kleinfelder  
550 West C Street, Suite #1200  
San Diego, CA 92101

**Subject: Air Quality and Greenhouse Gas Emissions Assessment for the Camino Del Mar Bridge Replacement Project**

Dear Mr. Bloodworth:

HELIX Environmental Planning, Inc. (HELIX) has assessed air quality and greenhouse gas emissions impacts associated with the Camino del Mar Bridge Replacement Project (project). This letter summarizes the findings of the assessment.

The project has been determined to be exempt from Clean Air Act (CAA) transportation conformity analysis per CFR 93.126, Safety. Therefore, this analysis only addresses impacts related to the air quality and GHG emissions impacts under the California Environmental Quality Act.

## **PROJECT BACKGROUND**

The proposed Camino Del Mar Bridge Replacement Project (proposed project) involves the replacement of the existing Camino del Mar Bridge No. 57C-0209 (bridge), which crosses the San Dieguito Lagoon (lagoon) in the City of Del Mar (Del Mar or City). The bridge was determined in 2010 to be eligible for rehabilitation funding under the Highway Bridge Program but was later determined to be structurally deficient upon preparation of a Final Rehabilitation Strategy Report in 2012. As a result, bridge replacement was recommended. Caltrans is the federal lead agency under the National Environmental Policy Act (NEPA) providing local assistance to the City.

## **PROJECT LOCATION**

The project site includes the existing bridge along Camino del Mar over the lagoon and areas immediately surrounding the bridge in the northwestern part of the City. Regional access to the project is provided from Interstate 5 (I-5), which runs parallel to the bridge about one mile to the east. The bridge serves as an important north-south connection for coastal residents and visitors in the vicinity and the greater San Diego region and is frequently used by motorists, bicyclists, hikers, and pedestrians.

The bridge is situated between the State Fairgrounds and the Pacific Ocean near coastal destinations and provides access to local beaches, open space areas, hiking trails, the Del Mar Village (the City's central business district), and Torrey Pines State Beach. The Camino del Mar roadway becomes Highway 101 north of Via de la Valle within the City of Solana Beach, about one-quarter mile north of the bridge. See Figure 1, *Regional Location* and Figure 2, *Project Location*.

## PROJECT DESCRIPTION

The proposed project involves the replacement of the Camino del Mar bridge to continue providing vehicle, pedestrian, and bicycle movement along Camino del Mar as it crosses the lagoon and to continue to provide coastal access to Del Mar Beach, including Dog Beach. The proposed bridge design consists of a five-span cast-in-place prestressed concrete box girder bridge with variable depth bridge with a length of 624 feet (') between abutments, a width of 68.5', and an area of about 41,800 square feet (sf; 0.96 acre).

In comparison to the existing bridge, the replacement bridge would be located along the same horizontal alignment, would be slightly longer, wider, and higher, and would result in a reduction in the number of piers in the lagoon. The proposed additional 28'-2" in bridge length and additional 7.7' in bridge height near the center of the bridge would accommodate a mid-range sea level rise scenario of 38 inches<sup>1</sup> by the year 2100 during a 100-year flood while maintaining safe roadway design and avoiding roadway conflicts with driveways and coastal access points. The additional bridge width of 7'-5" would accommodate two-way pedestrian and bicycle movement across the bridge. The roadway approach zones within Camino del Mar would also require modifications to accommodate the raised elevation of the bridge, including reconstructing the sidewalks to meet the proposed pedestrian sidewalks on both sides of the replacement bridge. There would be no change in vehicle capacity as the existing two-lane Camino del Mar roadway would continue to provide two vehicle traffic lanes.

## PROJECT CONSTRUCTION

The project is estimated to be constructed over 27 months during 5 distinct construction stages: Stage 1 – Site Preparation; Stage 2 – Replace East Side; Stage 3 – Replace West Side; Stage 4 – Close Bridge Median; and Stage 5, Final Improvements. The contractor will maintain continuous vehicular and pedestrian access (to the maximum extent feasible) along the Camino del Mar bridge throughout construction. Pedestrian coastal (beach) access at four existing coastal access points near the bridge would also be maintained throughout the duration of construction.

Travel lanes along Camino del Mar, including vehicle, pedestrian, and bicycle lanes, would be shifted from one side to the other, as the bridge is replaced. Bridge demolition and replacement would occur at one half of the bridge at a time, beginning with the east side (lagoon side) followed by the west side (ocean side). During the demolition and replacement of each side of the bridge, the opposite side would be used to re-route both lanes of traffic. Details for each of the construction stages are further described below. See Figure 3, *Construction Work Area*.

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<sup>1</sup> Per the National Research Council's *Sea-Level Rise for the Coasts of California, Oregon, and Washington: Past, Present, Future*, 2012.

## **Stage 1 – Site Preparation**

Stage 1 of construction would involve preparing the site for construction over an estimated two-month period starting in June 2024. Initiation of Stage 1 may involve up to four nights of roadway closures to prepare the bridge site for replacement. Construction activities associated with site preparation would involve the following: installing erosion control measures; preparing the beach level for temporary work trestle (trestle) installation; relocating the pedestrian crosswalks across Camino del Mar away from the abutments; removing the raised concrete median and vegetation/trees within and along the Camino del Mar roadway near the bridge. Erosion control measures would consist of installing straw rolls, gravel bag check dams, and silt fences around work areas. Drainage inlets along Camino del Mar would be protected with gravel bags and silt blankets. The City's water line within the bridge would either be capped and suspended during construction or temporarily relocated (i.e., "high-lined") onto the temporary work trestle and then reinstalled within Camino del Mar Bridge during Stage 4. Other active utilities beneath the bridge would remain in service and would be relocated onto the trestle during construction. Stage 1 would also involve preparation of the beach areas on both sides of the bridge, which would involve establishing construction contractor fencing, installing a covered pedestrian boardwalk (southwest corner) to provide residents and visitors with access to Del Mar Beach, and displaying signage that directs coastal visitors to coastal amenities in the area, including the beach and the City's River Path Del Mar.

## **Stage 2 – East-side Bridge Replacement**

The second stage of construction would involve replacing the eastern half of the bridge on the lagoon side over an estimated 10-month period following site preparation, starting in August 2024. As the western half of the bridge would remain open to vehicle traffic, a temporary work trestle would be constructed to allow construction equipment to access and replace the east side of the bridge. As traffic is re-routed to the west side, a temporary K-rail would be bolted to the middle of the existing bridge deck and bracing would be installed to support the edge of the continuous traffic lane during bridge replacement in Stage 2.

A 50-foot-wide temporary trestle would be constructed at a similar elevation to the existing bridge deck and would connect to the existing abutments that would remain in place. Construction staging for the trestle, including the number of temporary piles, would be determined by the contractor; however, the estimated number of piles is approximately 125 to 150 per side for a total of 150 to 300 temporary piles to support the trestle. Piles would be installed by a variety of methods including, pile driving, oscillation or vibration, and/or helical screw driving.

Once the temporary work trestle is constructed, a netting system (or equivalent) would be installed on the trestle and existing bridge piers to prevent debris from falling into the lagoon and beach areas during demolition. Utilities under the bridge would be temporarily relocated onto the trestle and may remain in service depending on utility owner's disposition. The City's water utility line would be capped during construction.

Next, a steel sheet-pile cofferdam would be installed around each existing bridge pier to remove sand and water surrounding the piers. The height of the cofferdam would extend above the high tide line to prohibit water infiltration into the work area. Water within the cofferdam would be pumped above the walls and returned to the lagoon. Sand removal within the cofferdam at the piers would encounter

ocean water and dewatering activities would occur to create a dry work area. The excavated sand slurry would be stored temporarily during pier removal and reused in the original location or spread around the new bridge, as needed.

Once the cofferdam is in place, the eastern side of the bridge would be demolished, including the bridge deck, piers, columns, and piles. Bridge demolition on the east side would involve the use of crawler and lifting cranes, concrete breakers, and jackhammers that would work from the trestle hoisting chunks of sawcut concrete into hauling trucks for removal.

Bridge construction would involve repositioning individual cofferdams to accommodate the new bridge pier widths. For installation of new piles (which may be up to 200 feet deep and anchored into strong material), cofferdams would be positioned and drilling mud used to extract and remove excavated sand material. The excavated sand slurry would be stored in tanks within the construction area and removed as needed; due to the presence of oily particles used for the hydraulic pumping operation in the slurry mixture, it would be unsuitable for return to the ocean and would be removed for suitable disposal. The eastern half of the bridge superstructure and deck would then be formed and constructed, and the relocated utilities would be installed into the east side of the bridge prior to trestle removal. Both lanes of traffic and the pedestrian access would be re-routed from the west side to the newly constructed east side of the bridge in preparation for Stage 3. The temporary trestle would also be disassembled and re-assembled on the west side of the bridge to support construction of Stage 3.

### **Stage 3 – West-side Bridge Replacement**

Stage 3 of construction would involve replacing the western half of the bridge on the ocean side over an estimated 10-month period following the replacement of the eastern side of the bridge, starting in June 2025. Traffic would be relocated to the newly completed eastern side of the bridge. Similar to the description for Stage 2, construction of a temporary trestle, repositioning of individual cofferdams to accommodate the new piers, temporary relocation of utilities, removal of the western side of the bridge, and construction of the bridge using similar construction equipment as Stage 2. Sand reuse/removal and cofferdam dewatering would occur similar to Stage 2. Relocated utilities on the trestle would be installed into the west side of the Camino del Mar bridge and roadway prior to trestle removal.

### **Stage 4 – Bridge Median Improvements**

Once the two halves of the bridge are constructed in Stages 2 and 3, a four-foot-wide closure pour would occur in the center of the bridge, connecting the two sides of the bridge and creating the new median and area for utility lines. Stage 4 would require the use of concrete trucks and pumps, delivery trucks, tool trucks, worker trucks, hauling trucks, and power tools over an approximate two-month period starting in April 2026.

### **Stage 5 – Final Improvements**

Stage 5 would consist of final contour grading and street improvements in Camino del Mar over an approximate three-month period starting in June 2026. Stage 5 would include signage installation, striping on the pavement, water line installation, and the final installation of water quality devices to treat and discharge road runoff during storm events. Finally, construction equipment and debris would

be removed at the end of the construction period. Construction equipment would consist of hauling and worker trucks, including contractor de-mobilization.

## **CLIMATE AND METEOROLOGY**

Climate and meteorology affect the dispersion and chemical reaction of air pollutants, and the resulting concentrations of pollutants, both locally at the project site and in the region. The climate in southern California, including the San Diego Air Basin (SDAB), is controlled largely by the large-scale meteorological condition that dominates the west coast of the United States: a seasonally semi-permanent high-pressure cell centered over the northeastern Pacific Ocean, called the Pacific high, which keeps most storms from affecting the California coast. Areas within 30 miles of the coast in the San Diego region, including the Program facility sites, experience moderate temperatures and comfortable humidity.

Temperature inversion layers (inversions; layers of warmer air over colder air) affect air quality conditions significantly because they influence the mixing depth (i.e., the vertical depth in the atmosphere available for diluting air contaminants near the ground). The highest air pollutant concentrations in the SDAB generally occur during inversions. During the summer, air quality problems in the SDAB are created due to the interaction between the ocean surface and the lower layer of the atmosphere, creating a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and oxides of nitrogen ( $\text{NO}_x$ ) react under the strong, abundant sunlight in the San Diego region, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving the air pollutants inland, toward the foothills. During the fall and winter, air quality problems are created due to carbon monoxide (CO) and  $\text{NO}_x$  emissions. High  $\text{NO}_x$  levels usually occur during autumn or winter, on days with summer-like conditions.

## **AIR QUALITY REGULATORY FRAMEWORK**

### **Criteria Pollutants**

Ambient air quality is described in terms of compliance with state and national standards, and the levels of air pollutant concentrations considered safe, to protect the public health and welfare. These standards are designed to protect people most sensitive to respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. The U.S. Environmental Protection Agency (USEPA), the federal agency that administrates the Federal Clean Air Act of 1970, as amended in 1990, has established national ambient air quality standards (NAAQS) for several air pollution constituents known as criteria pollutants, including: ozone ( $\text{O}_3$ ); CO; coarse particulate matter ( $\text{PM}_{10}$ ; particles 10 microns or less) and fine particulate matter ( $\text{PM}_{2.5}$ ; particles 2.5 microns or less); sulfur dioxide ( $\text{SO}_2$ ); and lead (Pb). As permitted by the Clean Air Act, California has adopted the more stringent California ambient air quality standards (CAAQS) and expanded the number of regulated air constituents. Ground-level ozone is not emitted directly into the environment but is generated from complex chemical and photochemical reactions between precursor pollutants, primarily reactive organic gases (ROGs; also known as volatile organic

compounds [VOCs]),<sup>2</sup> and NO<sub>x</sub>. PM<sub>10</sub> and PM<sub>2.5</sub> are generated from a variety of sources, including road dust, diesel exhaust, fuel combustion, tire and brake wear, and windblown dust. In addition, PM<sub>10</sub> and PM<sub>2.5</sub> can also be formed through chemical and photochemical reactions of precursor pollutants in the atmosphere.

Areas that do not meet the NAAQS or CAAQS for a particular pollutant are considered to be “nonattainment areas” for that pollutant. The air quality attainment status of the SDAB is shown in Table 1, *San Diego Air Basin Attainment Status*. Effective July 2, 2021, the SDAB was classified as a severe nonattainment area for the 8-hour NAAQS for ozone (USEPA 2021a). The SDAB is a nonattainment area for the 1-hour ozone, 8-hour ozone, PM<sub>10</sub>, and PM<sub>2.5</sub> CAAQS. The SDAB is an attainment area or unclassified for all other criteria pollutants (San Diego Air Pollution Control District [SDAPCD] 2020a).

**Table 1**  
**SAN DIEGO AIR BASIN ATTAINMENT STATUS**

Pollutant	Federal Attainment Status	State of California Attainment Status
Ozone (1-hour)	(No federal standard)	Nonattainment
Ozone (8-hour)	Nonattainment	Nonattainment
Coarse Particulate Matter (PM <sub>10</sub> )	Unclassifiable <sup>1</sup>	Nonattainment
Fine Particulate Matter (PM <sub>2.5</sub> )	Attainment	Nonattainment
Carbon Monoxide (CO)	Attainment	Attainment
Nitrogen Dioxide (NO <sub>2</sub> )	Attainment	Attainment
Lead	Attainment	Attainment
Sulfur Dioxide (SO <sub>2</sub> )	Attainment	Attainment
Sulfates	No Federal Standard	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Visibility Reducing Particles	No Federal Standard	Unclassified

Sources: SDAPCD 2020a

<sup>1</sup> At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.

## Attainment Plan

The SDAPCD and San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The regional air quality plan for the County is SDAPCD’s 2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County (Attainment Plan; SDAPCD 2020b). The Attainment Plan, which would be a revision to the SIP, outlines SDAPCD’s plans and control measures designed to attain the NAAQS for ozone. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and CARB, and the

<sup>2</sup> The California Air Resources Board (CARB) defines and uses the term ROG while the U.S. Environmental Protection Agency (USEPA) defines and uses the term VOCs. The compounds included in the lists of ROG and VOCs and the methods of calculation are slightly different. However, for the purposes of estimating criteria pollutant precursor emissions, the two terms are often used interchangeably.

emissions and reduction strategies related to mobile sources are considered in the Attainment Plan and SIP.

## **Toxic Air Contaminants**

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute effects such as eye watering, respiratory irritation (a cough), runny nose, throat pain, and headaches. TACs may be carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For carcinogenic TACs, there is no level of exposure that is considered safe, and impacts are evaluated in terms of overall relative risk expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is referred to as diesel particulate matter (DPM). Almost all DPM is 10 microns or less in diameter, and 90 percent of DPM is less than 2.5 microns in diameter (CARB 2021a). Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. In 1998, CARB identified DPM as a TAC based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM has a notable effect on California's population—it is estimated that about 70 percent of total known cancer risk related to air toxics in California is attributable to DPM (CARB 2021a).

Asbestos is a mineral fiber that naturally occurs in some rock and soil. Long-term exposure to airborne asbestos fibers has been linked to major health effects including lung cancer; mesothelioma, a rare form of cancer that is found in the thin lining of the lung, chest, abdomen, and heart; and asbestosis, a serious progressive, long-term, non-cancer disease of the lungs (USEPA 2021b). Because of its fiber strength and heat resistance, asbestos has been used in structures constructed before 1979. Asbestos fibers may be released into the air by the disturbance of asbestos containing material (ACM) during demolition activities; or during earth disturbing activities in areas where naturally occurring asbestos (NOA) is present in the rock or soil. NOA is not likely to be present in the soil and rock of San Diego County (California Department of Conservation 2000).

Lead is a naturally occurring metallic element that is found in small amounts in the earth's crust. In addition to its status as a criteria pollutant, lead is listed as a TAC because, depending on the level and duration of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems, and the cardiovascular system. There is also a probable link between lead exposure and kidney cancer, brain cancer (gliomas), and lung cancer (USEPA 2021c). Lead was commonly used as an additive to gasoline until sale of leaded gasoline was banned for most uses by the Clean Air Act in 1996. Because lead was emitted in vehicle exhaust for decades, aerially-deposited lead (ADL) may be present in the soils adjacent to older roadways. Lead particulate matter can also be emitted during demolition and renovation activities that disturb material that contains lead-based paint (LBP), most typically found in structures built before 1978.

## **Sensitive Receptors**

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005; OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptors. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers.

The closest sensitive receptors to the project site are single- and multi-family residences adjacent to Camino Del Mar starting at the south end of the exiting bridge near the lagoon. The closest school to the project site is the Saint James Academy, approximately 2,000 feet northeast of the intersection of Camino Del Mar and Via De La Valle. There are no hospitals or day care centers within one mile of the project site.

## **GREENHOUSE GAS EMISSIONS REGULATORY FRAMEWORK**

Greenhouse gases, as defined under California's Assembly Bill (AB) 32, include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF<sub>6</sub>). AB 32, the California Global Warming Solutions Act of 2006, recognizes that California is a source of substantial amounts of GHG emissions. The statute states that:

*Global warming poses a serious threat to the economic wellbeing, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.*

In order to help avert these potential consequences, AB 32 established a State goal of reducing GHG emissions to 1990 levels by the year 2020, which is a reduction of approximately 16 percent from forecasted emission levels, with further reductions to follow. In addition, AB 32 required CARB to develop a Scoping Plan to help the State achieve the targeted GHG emission reductions. In 2015, Executive Order (EO) B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California's GHG emission reduction targets with those of leading international governments, including the 28 nation European Union. California is on track to meet or exceed the target of reducing GHG emissions to 1990 levels by 2020, with annual emissions in 2016 through 2019 below the 2020 target (CARB 2021b). As a follow-up to AB 32 and in response to EO-B-30-15, Senate Bill (SB) 32 was passed by the California legislature in 2016 to codify the EO's California GHG emission reduction target of 40 percent below 1990 levels by 2030. The most recent update to the Scoping Plan was adopted in December 2017 and establishes a proposed framework for California to meet the EO-B-30-15 reduction target (CARB 2017).

The City adopted a Climate Action Plan (CAP) in June 2016 which sets targets for reducing greenhouse gas emissions by 2020 and 2035; identifies strategies to meet the targets; and formulates a plan for



implementation. The CAP aims to reduce GHGs from the baseline year (2015) levels 15 percent by 2020, and 50 percent by 2035. The CAP also includes a renewable energy goal of 50 percent by 2020 and 100 percent by 2035. Additional CAP strategies include reducing water consumption and waste generation, promoting energy efficiency, and encouraging sustainable transportation alternatives (City of Del Mar 2016).

## METHODOLOGY AND ASSUMPTIONS

Criteria pollutant emissions for project construction were estimated using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California air districts. CalEEMod allows for the use of default data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The calculation methodology and default data used in the model are available in the CalEEMod User’s Guide, Appendices A, D, and E (CAPCOA 2021). The CalEEMod output files are included in Attachment A to this letter.

Construction is anticipated commence as early as June 2024 and be completed in August 2026 for an overall duration of approximately 27 months. Table 2, *Construction Stage Activities*, shows the modeling assumptions for the general activities and approximate duration of each activity.

**Table 2**  
**CONSTRUCTION STAGE ACTIVITIES**

Stage	Activity	Workdays
Stage 1 – Site Preparation June 2024 to July 2024	Site Preparation	43
	Night Delivery (concurrent with site prep)	4
Stage 2 – Replace East Side August 2024 to May 2025	Temporary Trestle	10
	Coffer Dams for Demolition	32
	Bridge Demolition	22
	Coffer Dams for Piers	11
	Bridge Piers Forms and Steel	50
	Bridge Piers Concrete Pour	27
	Bridge Deck Forms and Steel	30
	Night Delivery (Concurrent with Bridge Deck)	4
	Bridge Deck Concrete Pour	30
	Paving	4
Pavement Marking	1	
Stage 3 – Replace West Side June 2025 to March 2026	Temporary Trestle	10
	Coffer Dams for Demolition	32
	Bridge Demolition	22
	Coffer Dams for Piers	11
	Bridge Piers Forms and Steel	50
	Bridge Piers Concrete Pour	27
Bridge Deck Forms and Steel	30	

Stage	Activity	Workdays
	Night Delivery (Concurrent with Bridge Deck)	4
	Bridge Deck Concrete Pour	29
	Paving	4
	Pavement Marking	1
Stage 4 – Close Bridge Median April 2026 to May 2026	Bridge Gap Forms and Steel	20
	Bridge Gap Concrete Pour	21
Stage 5 – Final Improvements June 2026 to August 2026	Final Contour Grading	14
	Signage Installation	12
	Final Pavement Marking	2
	Water Lines and Runoff Devices	20
	Cleanup and Demobilization	18

The assumed equipment types and quantity used in the analysis is shown in Table 3, *Off-Road Equipment*. Because the specific models of equipment to be used was not known at the time of this analysis, modeling used default specifications for typical off-road construction equipment, as described in the *CalEEMod User's Guide*, Appendix D (CAPCOA 2021). All equipment was assumed to operate 8 hours per workday. The construction emissions modeling assumes the implementation of standard dust control best management practices to meet the requirements of the SDAPCD Rule 55, including watering all exposed surfaces twice daily (SDAPCD 2009).

**Table 3  
OFF-ROAD EQUIPMENT**

Activity	Equipment	Quantity
Site Preparation	Air Compressors	2
	Concrete/Industrial Saws	1
	Crawler Tractors	1
	Generator Sets	2
	Rough Terrain Forklifts	1
	Rubber-Tired Loaders	1
	Tractors/Loader/Backhoes	2
Temporary Trestle	Air Compressors	2
	Cranes	2
	Crawler Tractors	1
	Excavators	2
	Generator Sets	2
	Rough Terrain Forklifts	2
	Rubber-Tired Loaders	1
	Tractors/Loader/Backhoes	2
	Welders	1
Coffer Dams	Air Compressors	2
	Cranes	3
	Excavators	2
	Generator Sets	2
	Pumps	3
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	2
	Welders	1

Activity	Equipment	Quantity
Bridge Demolition	Air Compressors	2
	Concrete/Industrial Saws	1
	Cranes	2
	Excavators	2
	Generator Sets	2
	Tractors/Loader/Backhoes	3
Bridge Piers Forms and Steel	Air Compressors	2
	Bore/Drill Rigs	1
	Cranes	2
	Excavators	2
	Generator Sets	2
	Pumps	2
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	2
	Welders	2
Bridge Piers Concrete Pour	Air Compressors	2
	Cranes	2
	Generator Sets	2
	Concrete Pump Truck	1
	Tractors/Loader/Backhoes	1
Bridge Deck Forms and Steel	Air Compressors	2
	Cranes	2
	Generator Sets	2
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	1
	Welders	2
Night Deliveries	Cranes	1
	Generator Sets	2
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	1
Bridge Deck Concrete Pour	Air Compressors	2
	Generator Sets	2
	Concrete Pump Truck	1
	Tractors/Loader/Backhoes	1
	Bidwell Concrete Machine	1
Paving	Pavers	1
	Paving Equipment	1
	Rollers	1
	Tractors/Loader/Backhoes	1
Pavement Marking	Air Compressor	1
	Striping Truck	1
Bridge Gap Forms and Steel	Air Compressors	2
	Cranes	1
	Generator Sets	2
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	1
	Welders	2

Activity	Equipment	Quantity
Bridge Gap Concrete Pour	Air Compressors	2
	Generator Sets	2
	Concrete Pump Truck	1
	Tractors/Loader/Backhoes	1
Final Contour Grading	Crawler Tractors	1
	Tractors/Loader/Backhoes	1
	Generator Sets	1
Signage Installation	Crane	1
	Tractors/Loader/Backhoes	1
	Generator Sets	1
Water Lines and Runoff Devices	Air Compressors	1
	Cranes	1
	Generator Sets	1
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	1
Cleanup and Demobilization	Cranes	1
	Generator Sets	1
	Rough Terrain Forklifts	1
	Tractors/Loader/Backhoes	1

Project specific details for worker trips, material trips and hauling trips were not available at the time of this analysis. Worker trips were modeled based on equipment estimates, anticipated activity, and assumptions from past similar projects. Hauling trips were modeled based on material requirements reported by the project engineers: 4,100 cubic yards (CY) of soil for abutments and 5,138 CY of concrete for the bridge. Demolition hauling assumed that the volume of debris would be approximately 150 percent of the new concrete volume, or 7,800 CY. An additional 200 round-trip hauling trips were assumed for mobilization and demobilization for material and equipment transportation. The use of medium and heavy trucks (e.g., traffic control vehicles, flatbed trucks, tool trucks, water trucks) around the project site and staging areas was accounted for in the modeling with daily vendor trips. The on-road trip assumptions are shown in Table 4, *Construction Trips*. The CalEEMod default trip distances were used in the modeling.

**Table 4  
CONSTRUCTION TRIPS**

Activity	Daily Worker Trips <sup>1</sup>	Daily Vendor Trips <sup>1</sup>	Total Haul Trips <sup>1</sup>
Mobilization, Demobilization	50	10	400
Demolition	100	10	500
Site preparation, temporary trestles, coffer, falsework, forms, steel work	100	10	1,024
Concrete pour	50	10	620
Paving	40	10	40
Pavement Striping	20	0	0

<sup>1</sup> Round trips.

## SIGNIFICANCE CRITERIA

### Air Quality

Thresholds used to evaluate potential air quality and odor impacts are based on applicable criteria in the State's CEQA Guidelines Appendix G, the City's CEQA Significance Determination Thresholds (2016), and applicable air district screening-level thresholds described below. A significant air quality and/or odor impact could occur if the Program would:

1. Conflict with or obstruct the implementation of the San Diego Attainment Plan or applicable portions of the SIP;
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the Program region is non-attainment under an applicable federal or state ambient air quality standard;
3. Expose sensitive receptors (including, but not limited to, residences, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations; or
4. Create objectionable odors affecting a substantial number of people.

To determine whether the Program would (a) result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation, or (b) result in a cumulatively considerable net increase of PM<sub>10</sub>, PM<sub>2.5</sub>, or the ozone precursors NO<sub>x</sub> and VOCs, emissions were evaluated based on the quantitative emission thresholds established by the SDAPCD. As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 for the preparation of Air Quality Impact Assessments (AQIAs; SDAPCD 2019). In the absence of a significance threshold for PM<sub>2.5</sub> from the SDAPCD or the City, the SCAQMD's screening threshold of 55 pounds per day or 10 tons per year was applied to this analysis (SCAQMD 2019).

For CEQA purposes, these screening criteria were used as numeric methods to determine if the Program would result in a significant impact to air quality or an adverse effect on human health. The screening thresholds are shown in Table 5, *Screening-level Thresholds for Air Quality Impact Analysis*.

**Table 5**  
**SCREENING-LEVEL THRESHOLDS FOR AIR QUALITY IMPACT ANALYSIS**

<b>Pollutant</b>	<b>Threshold</b>
<b>Construction Emissions (Pounds/Day)</b>	
Respirable Particulate Matter (PM <sub>10</sub> )	100
Fine Particulate Matter (PM <sub>2.5</sub> )	55
Oxides of Nitrogen (NO <sub>x</sub> )	250
Oxides of Sulfur (SO <sub>x</sub> )	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	137

Pollutant	Threshold
<b>Toxic Air Contaminant Health Risk</b>	
Excess Cancer Risk	1 in 1 million 10 in 1 million with T-BACT
Non-Cancer Hazard	1.0

Source: SDAPCD 2019

T-BACT = Toxics-Best Available Control Technology

SDAPCD Rule 51 (Nuisance) prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property (SDAPCD 1976). It is generally accepted that the considerable number of persons requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from a “considerable” number of persons or businesses in the area would be considered to be a significant, adverse odor impact.

## Greenhouse Gas Emissions

Thresholds used to evaluate potential air quality and odor impacts are based on applicable criteria in the State’s CEQA Guidelines Appendix G. A significant GHG emissions impact could occur if the Program would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

As discussed above, in 2016 the City adopted a CAP which can be used to determine the significance of a project’s GHG emissions. GHG emissions impacts for project’s which are consistent with the CAP, would be less than significant. However, the GHG reduction strategies and actions contained in the CAP are not applicable to the project construction activities, nor are construction emissions included in the City GHG emissions inventory. An appropriate bright line threshold would be a more conservative approach to determining the significance of the Program’s GHG emissions

To establish context in which to consider the Proposed Project’s GHG emissions, this analysis reviewed guidelines used by other experts and public agencies. Prior to 2020, a screening level based on the CAPCOA report *CEQA & Climate Change* was used as a tool used to determine whether further analysis would be needed to examine the GHG impacts of a project (CAPCOA 2008). CAPCOA developed a 900 MT CO<sub>2</sub>e per year screening threshold by analyzing the capture of 90 percent or more of future discretionary development for residential and commercial projects across the state. Direct and cumulative impacts would be potentially significant and require further analysis if a project results in emissions that exceed 900 MT CO<sub>2</sub>e beyond current baseline emissions. This screening threshold was developed with the goal in mind of achieving the reductions described by AB 32 for meeting 1990 levels of statewide GHG emissions by the year 2020.

Subsequently, SB 32 set a further GHG emission reduction target of 40 percent below 1990 levels by 2030. To achieve this target, a regression trajectory can be projected by reducing the operational year emissions goal from the 900 MT CO<sub>2</sub>e target in 2020 to the 540 MT CO<sub>2</sub>e target in 2030. This trajectory is

outlined in Table 6, *GHG Screening Level Trajectory*, below. Therefore, for the purpose this report, 540 MT CO<sub>2e</sub> is considered a valid and adequate screening level as it is based on current methodologies. It is not the intent of the County to adopt the above screening levels as mass emission limits for this or other projects, but rather to disclose this information and put the Program generated GHG emissions in the appropriate statewide context and consider the Program’s potential impacts pursuant to CEQA.

**Table 6**  
**GHG SCREENING LEVEL TRAJECTORY**

Year	Screening Level (MT CO <sub>2e</sub> )
2020	900
2021	855
2022	813
2023	772
2024	734
2025	697
2026	662
2027	629
2028	598
2029	568
2030	540

Source: CAPCOA 2008; SB 32

Note: Emissions reduce by 4.98 percent each year to achieve SB 32’s 2030 target.

MT = metric tons; CO<sub>2e</sub> = carbon dioxide equivalents

The above screening level threshold is intended to evaluate a project’s long-term annual contribution to GHG emission inventories. Emissions from construction activities only occur during the construction period and are not included in the City’s GHG inventory. To determine the project’s contribution to future annual City GHG emissions inventories, the construction emissions are amortized (e.g., averaged) over the anticipated lifespan of the project.

## **AIR QUALITY IMPACT ANALYSIS**

### *(1) Conflict with or obstruct implementation of the applicable air quality plan?*

**Less than Significant Impact.** A project would be inconsistent with the Attainment Plan if it is inconsistent with the population and employment growth assumptions within the General Plan or if the Program’s emissions would exceed the applicable thresholds, as analyzed in checklist question (2).

As discussed in checklist question (2), construction of the project would not result in pollutant emissions in excess of applicable thresholds. Because construction emissions would be below the applicable thresholds, and because the project would replace a bridge and would not result in population or employment increases, the proposed project would not conflict with or obstruct implementation of the Attainment Plan for the SDAB and impacts would be less than significant.

(2) *Result in a cumulatively considerable net increase of any criteria pollutant for which the Program region is non-attainment under an applicable federal or state ambient air quality standard?*

**Less than Significant Impact.** The project’s construction emissions were estimated using equipment assumptions, as described above. The emissions generated from construction activities would include:

- Dust (including PM<sub>10</sub> and PM<sub>2.5</sub>) primarily from fugitive sources such as soil disturbance and vehicle travel over unpaved surfaces;
- Combustion emissions of air pollutants (including VOC, NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, CO, and SO<sub>x</sub>), primarily from: operation of heavy off-road equipment; portable generators, pumps and air compressor; on-road worker commute vehicle traveling to and from the project site; and trucks hauling equipment, material, and debris to and from the project site; and
- Emissions of VOCs from the application of asphalt and pavement marking.

The results of the calculations for project construction activities are shown in Table 7, *Maximum Daily Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the SDAPCD thresholds, the model output is included as Attachment A to this letter.

**Table 7  
MAXIMUM DAILY EMISSIONS**

Construction Stage	VOC <sup>1</sup>	NO <sub>x</sub> <sup>1</sup>	CO <sup>1</sup>	SO <sub>x</sub> <sup>1</sup>	PM <sub>10</sub> <sup>1</sup>	PM <sub>2.5</sub> <sup>1</sup>
Stage 1	4.0	35.2	43.4	<0.1	3.1	1.8
Stage 2	21.6	33.5	44.6	<0.1	3.6	1.8
Stage 3	21.6	33.4	46.4	<0.1	3.6	1.8
Stage 4	2.3	16.9	24.5	<0.1	2.0	1.0
Stage 5	7.7	10.1	11.8	<0.1	1.2	0.6
<b>Maximum Daily Emissions</b>	<b>21.6</b>	<b>35.2</b>	<b>46.4</b>	<b>0.1</b>	<b>3.6</b>	<b>1.8</b>
<i>SDAPCD Thresholds</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>67</i>
<b>Exceed Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Source: CalEEMod (output data is provided in Attachment A)

<sup>1</sup> Pollutant Emissions (pounds per day).

VOC = volatile organic compound; NO<sub>x</sub> = nitrogen oxides; CO = carbon monoxide; SO<sub>x</sub> = sulfur oxides;

PM<sub>10</sub> = particulate matter 10 microns or less in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter;

SDAPCD = San Diego County Air Pollution Control District

As shown in Table 7, The project’s emissions would not exceed SDAPCD thresholds and would not result in a cumulatively considerable net increase of any criteria pollutant. Once operational, the new bridge would not result in changes to emissions from traffic on public roadways or from bridge maintenance activities, compared to existing conditions. Therefore, the impact would be less than significant

(3) *Expose sensitive receptors to substantial pollutant concentrations?*

**Less than Significant Impact.** Construction of the project would result in DPM. The amount to which the receptors could be exposed, which is a function of concentration and duration of exposure, is the primary factor used to determine health risk. Current models and methodologies for conducting cancer health risk assessments are associated with longer-term exposure periods (typically 30 years for



individual residents) and are best suited for evaluation of long duration TAC emissions with predictable schedules and locations. These assessment models and methodologies do not correlate well with the temporary and highly variable nature of construction activities. The total construction period is anticipated to last approximately 27 months. The most intense use of heavy equipment is anticipated to occur around the bridge in the lagoon and would not occur adjacent any individual residence for extended periods. In addition, the prevailing ocean breezes would rapidly disperse emissions. Due to the variable and sporadic nature of construction activity, and the anticipated short construction schedule, the project's construction activity would not expose sensitive receptors to substantial concentrations of DPM.

According to the Initial site Assessment (ISA) for the project, the Camino Del Mar Bridge has existed since at least 1928 and the potential exists for ADL to be encountered in soil during construction activities. The ISA recommends that soil sampling for the presence of ADL be performed in unpaved locations of the Project area prior to construction activities, and (if lead is detected) a lead compliance plan be prepared prior to the start of construction activities (Kleinfelder 2021).

According to the ISA, due to the age of the bridge, the potential exists for ACMs and LBP to be present. Demolition activities on the project site could result in the disturbance of ACMs and LPB. In accordance with the SDAPCD Rule 1206, *Asbestos Removal, Renovation, and Demolition*, prior to commencement of renovation or demolition operations and prior to submitting the notifications required by Section (e) of Rule 1206, a facility survey shall be performed to determine the presence or absence of ACM, regardless of the age of the facility (SDAPCD 2017). An LBP survey shall be performed in accordance with California Department of Public Health (CDPH) guidelines (Kleinfelder 2021). In addition, airborne asbestos is regulated in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos regulations. Following notification of the SDAPCD and other applicable local agencies, and following identification of friable ACMs, SDAPCD Rule 1206 and federal and state Occupational and Safety Health Administration (OSHA) regulations require that asbestos trained and certified abatement personnel perform asbestos abatement and that all ACMs removed from the project site must be hauled to a licensed receiving facility and disposed of under proper manifest by a transportation company certified to handle asbestos. These regulations specify precautions and safe work practices that must be followed to minimize the potential for release of asbestos fibers. Completion of ACM and LPB surveys, and adherence to SDAPCD and OSHA regulations for the identification, removal, and transport of ACMs and LBP would ensure the project's construction activity would not expose sensitive receptors to substantial pollutant concentrations of airborne asbestos and LBP.

The ISA also identified the potential for treated wood waste to be present associated with guard rail posts or pedestrian walkway decking within the project area. Sampling of the sign, guard rail posts, and/or decking for the presence of wood-preserving chemicals shall be completed prior to demolition, and treated wood waste shall be handled consistent with Caltrans' Standard Special Provisions 14-11.14 (Kleinfelder 2021). Completion of sampling and adherence to Caltrans' Standard Special Provisions would ensure the project's construction activity would not expose sensitive receptors to substantial pollutant concentrations of TACs from preserved wood.

**Impact Conclusion:** Project construction activities would not result in the exposure of sensitive receptors to substantial pollutant concentrations and the impact would be less than significant.

(4) *Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

**Less than Significant Impact.** The project could produce odors during construction activities resulting from heavy diesel equipment exhaust and VOC released during application of paint or asphalt. Standard best management practices to minimize equipment idling and maintain equipment would minimize the odor emissions from equipment exhaust and their associated impacts. Any odors emitted during construction activities would be temporary, short-term, and intermittent in nature, and would cease upon the facility maintenance. In addition, the prevailing ocean breezes would rapidly disperse odors. Therefore, odor impacts from construction activities would be less than significant due to the duration of exposure.

## GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS

(1) *Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?*

**Less than Significant Impact.** During construction, the use off-road vehicles and equipment, and on-road vehicles traveling to and from the project site, would result in emissions of GHGs from engine exhaust. Table 8, *Construction GHG Emissions*, presents the summary of GHGs emissions for the project, the model output is included as Attachment A to this letter.

**Table 8  
CONSTRUCTION GHG EMISSIONS**

Stage/Year	MT CO <sub>2</sub> e per year
Stage 1 2024	122.3
Stage 2 2024	432.7
Stage 2 2025	310.6
Stage 3 2025	545.4
Stage 3 2026	166.4
Stage 4 2026	87.8
Stage 5 2026	78.9
Total Construction Emissions	1,744.1
<b>Amortized emissions (30 years)</b>	<b>58.1</b>
<i>2030 Screening Threshold</i>	<i>540</i>
<b><i>Exceed Threshold?</i></b>	<b>No</b>

Source: CalEEMod (output data is provided in Attachment A)  
GHG = greenhouse gas; CO<sub>2</sub>e = carbon dioxide equivalents

As shown in Table 8, construction of the project has been conservatively estimated to result in approximately 58 MT CO<sub>2</sub>e annually, amortized over the estimated 30-year lifespan of the bridge.<sup>3</sup> Once operational, the new bridge would not result in changes to emissions from traffic on public roadways or from bridge maintenance activities, compared to existing conditions. Emissions resulting from implementation of the Program would not exceed the screening threshold of 540 MT CO<sub>2</sub>e adjusted

<sup>3</sup> Although prestressed concrete bridges may last 100 or more years, for the purposes of evaluating GHG emissions, the lifespan of the bridge is the shortest anticipated period before major repair or retrofit would be required.

from CAPCOA for compliance with SB 32 in 2030. Therefore, the implementation of the Program would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and the impact would be less than significant.

*(2) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?*

**Less than Significant Impact.** The project would replace an existing bridge on a public roadway for public health and safety. The project would not generate growth in population or employment or require the alteration of an existing land use designation through amendments to general plans or changes to zoning. Long-term operation of the bridge would not result in changes to GHG emissions from traffic or maintenance activities, compared to the existing condition. Furthermore, as shown in Table 8, project construction would not result in a significant increase in GHG emissions. Therefore, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, including the City's CAP. The impact would be less than significant.

## SUMMARY

As described above, emissions of criteria pollutants would be below SDAPCD thresholds, and the project would be consistent with the Attainment Plan. Sensitive receptors would not be exposed to substantial concentrations of TACs or odors. Impacts to air quality would be less than significant and no mitigation measures would be required. The project would not result in annual GHG emissions in excess of the 2030 screening threshold and the project would not conflict with GHG reduction plans. Impacts related to GHG emissions would be less than significant and no mitigation measures would be required.

Sincerely,



Martin Rolph  
Air Quality Specialist



Victor Ortiz  
Senior Air Quality Specialist

### Attachments:

- Figure 1: Regional Location
- Figure 2: Project Location
- Figure 3: Construction Work Areas
- Attachment A: CalEEMod Output

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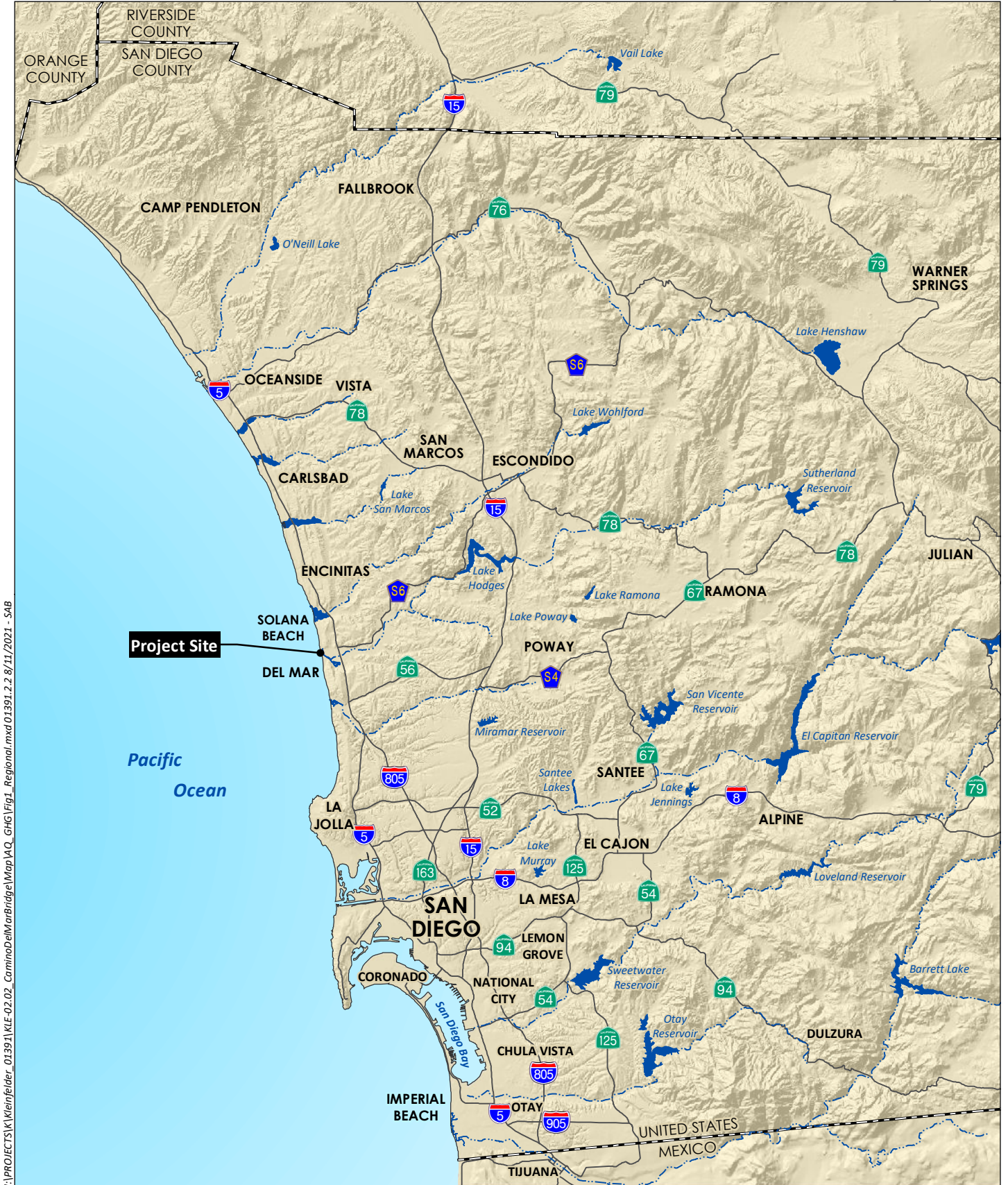
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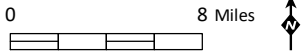
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Source: Base Map Layers (SanGIS, 2016)



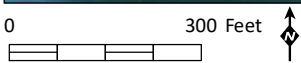
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Source: Aerial (SanGIS and Nearmap, 2019)

-  Permanent Impacts
-  Temporary Impacts
- Stages**
-  Stage 1-3
-  Stage 2 Only
-  Stage 3 Only



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Source: Aerial (Nearmap, 2021)



# Attachment A

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CalEEMod Output

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

**Camino Del Mar Bridge Replacement Stage 1**

**San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Grading -

Construction Off-road Equipment Mitigation - Dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	43.00

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	6/4/2024	7/31/2024
tblConstructionPhase	PhaseEndDate	6/6/2024	7/4/2024
tblConstructionPhase	PhaseStartDate	6/5/2024	7/1/2024
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2024	8-31-2024	0.5810	0.5810
		Highest	0.5810	0.5810

**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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 1 Site Preparation	Site Preparation	6/1/2024	7/31/2024	5	43	
2	Stage 1 Night Delivery	Site Preparation	7/1/2024	7/4/2024	5	4	

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**Acres of Grading (Site Preparation Phase): 21.5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**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
Stage 1 Site Preparation	Air Compressors	2	8.00	78	0.48
Stage 1 Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Stage 1 Site Preparation	Crawler Tractors	1	8.00	212	0.43
Stage 1 Site Preparation	Generator Sets	2	8.00	84	0.74
Stage 1 Site Preparation	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 1 Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Stage 1 Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 1 Night Delivery	Cranes	1	8.00	231	0.29
Stage 1 Night Delivery	Generator Sets	2	8.00	84	0.74
Stage 1 Night Delivery	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 1 Night Delivery	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Stage 1 Site Preparation	10	50.00	10.00	200.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 1 Night Delivery	5	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

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

**3.2 Stage 1 Site Preparation - 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					0.0114	0.0000	0.0114	1.2300e-003	0.0000	1.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.4746	0.5647	1.1000e-003		0.0200	0.0200		0.0193	0.0193	0.0000	95.3905	95.3905	0.0169	0.0000	95.8123
<b>Total</b>	<b>0.0523</b>	<b>0.4746</b>	<b>0.5647</b>	<b>1.1000e-003</b>	<b>0.0114</b>	<b>0.0200</b>	<b>0.0314</b>	<b>1.2300e-003</b>	<b>0.0193</b>	<b>0.0205</b>	<b>0.0000</b>	<b>95.3905</b>	<b>95.3905</b>	<b>0.0169</b>	<b>0.0000</b>	<b>95.8123</b>

**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	0.0135	3.6600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.8959	5.8959	3.1000e-004	9.4000e-004	6.1833
Vendor	2.3000e-004	8.8100e-003	3.1600e-003	4.0000e-005	1.2900e-003	5.0000e-005	1.3400e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.8620	3.8620	1.2000e-004	5.6000e-004	4.0320
Worker	3.6000e-003	2.5400e-003	0.0328	1.1000e-004	0.0134	7.0000e-005	0.0135	3.5600e-003	6.0000e-005	3.6200e-003	0.0000	10.3719	10.3719	2.2000e-004	2.5000e-004	10.4505
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0248</b>	<b>0.0396</b>	<b>2.1000e-004</b>	<b>0.0164</b>	<b>2.3000e-004</b>	<b>0.0166</b>	<b>4.4000e-003</b>	<b>2.2000e-004</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>20.1298</b>	<b>20.1298</b>	<b>6.5000e-004</b>	<b>1.7500e-003</b>	<b>20.6657</b>



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**3.2 Stage 1 Site Preparation - 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					5.1300e-003	0.0000	5.1300e-003	5.5000e-004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0523	0.4746	0.5647	1.1000e-003		0.0200	0.0200		0.0193	0.0193	0.0000	95.3903	95.3903	0.0169	0.0000	95.8122
<b>Total</b>	<b>0.0523</b>	<b>0.4746</b>	<b>0.5647</b>	<b>1.1000e-003</b>	<b>5.1300e-003</b>	<b>0.0200</b>	<b>0.0251</b>	<b>5.5000e-004</b>	<b>0.0193</b>	<b>0.0198</b>	<b>0.0000</b>	<b>95.3903</b>	<b>95.3903</b>	<b>0.0169</b>	<b>0.0000</b>	<b>95.8122</b>

**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	0.0135	3.6600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.8959	5.8959	3.1000e-004	9.4000e-004	6.1833
Vendor	2.3000e-004	8.8100e-003	3.1600e-003	4.0000e-005	1.2900e-003	5.0000e-005	1.3400e-003	3.7000e-004	5.0000e-005	4.2000e-004	0.0000	3.8620	3.8620	1.2000e-004	5.6000e-004	4.0320
Worker	3.6000e-003	2.5400e-003	0.0328	1.1000e-004	0.0134	7.0000e-005	0.0135	3.5600e-003	6.0000e-005	3.6200e-003	0.0000	10.3719	10.3719	2.2000e-004	2.5000e-004	10.4505
<b>Total</b>	<b>4.0500e-003</b>	<b>0.0248</b>	<b>0.0396</b>	<b>2.1000e-004</b>	<b>0.0164</b>	<b>2.3000e-004</b>	<b>0.0166</b>	<b>4.4000e-003</b>	<b>2.2000e-004</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>20.1298</b>	<b>20.1298</b>	<b>6.5000e-004</b>	<b>1.7500e-003</b>	<b>20.6657</b>

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

**3.3 Stage 1 Night Delivery - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-003	0.0228	0.0273	5.0000e-005		9.5000e-004	9.5000e-004		9.1000e-004	9.1000e-004	0.0000	4.4278	4.4278	7.9000e-004	0.0000	4.4476
<b>Total</b>	<b>2.3000e-003</b>	<b>0.0228</b>	<b>0.0273</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>9.5000e-004</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>4.4278</b>	<b>4.4278</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.4476</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.2000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3593	0.3593	1.0000e-005	5.0000e-005	0.3751
Worker	3.3000e-004	2.4000e-004	3.0500e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9648	0.9648	2.0000e-005	2.0000e-005	0.9721
<b>Total</b>	<b>3.5000e-004</b>	<b>1.0600e-003</b>	<b>3.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.3241</b>	<b>1.3241</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.3472</b>

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**3.3 Stage 1 Night Delivery - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-003	0.0228	0.0273	5.0000e-005		9.5000e-004	9.5000e-004		9.1000e-004	9.1000e-004	0.0000	4.4277	4.4277	7.9000e-004	0.0000	4.4476
<b>Total</b>	<b>2.3000e-003</b>	<b>0.0228</b>	<b>0.0273</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>9.5000e-004</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>4.4277</b>	<b>4.4277</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>4.4476</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.2000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3593	0.3593	1.0000e-005	5.0000e-005	0.3751
Worker	3.3000e-004	2.4000e-004	3.0500e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9648	0.9648	2.0000e-005	2.0000e-005	0.9721
<b>Total</b>	<b>3.5000e-004</b>	<b>1.0600e-003</b>	<b>3.3400e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.3241</b>	<b>1.3241</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.3472</b>

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383





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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

**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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**Camino Del Mar Bridge Replacement Stage 1  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Grading -

Construction Off-road Equipment Mitigation - Dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	43.00

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

tblConstructionPhase	NumDays	2.00	4.00
tblConstructionPhase	PhaseEndDate	6/4/2024	7/31/2024
tblConstructionPhase	PhaseEndDate	6/6/2024	7/4/2024
tblConstructionPhase	PhaseStartDate	6/5/2024	7/1/2024
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	25.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Stage 1 Site Preparation	Site Preparation	6/1/2024	7/31/2024	5	43	
2	Stage 1 Night Delivery	Site Preparation	7/1/2024	7/4/2024	5	4	

**Acres of Grading (Site Preparation Phase): 21.5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**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
Stage 1 Site Preparation	Air Compressors	2	8.00	78	0.48
Stage 1 Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Stage 1 Site Preparation	Crawler Tractors	1	8.00	212	0.43
Stage 1 Site Preparation	Generator Sets	2	8.00	84	0.74
Stage 1 Site Preparation	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 1 Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Stage 1 Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 1 Night Delivery	Cranes	1	8.00	231	0.29
Stage 1 Night Delivery	Generator Sets	2	8.00	84	0.74

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

Stage 1 Night Delivery	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 1 Night Delivery	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Stage 1 Site Preparation	10	50.00	10.00	200.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 1 Night Delivery	5	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 1 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	2.4333	22.0761	26.2637	0.0511		0.9307	0.9307		0.8958	0.8958		4,890.6966	4,890.6966	0.8652		4,912.3261
<b>Total</b>	<b>2.4333</b>	<b>22.0761</b>	<b>26.2637</b>	<b>0.0511</b>	<b>0.5303</b>	<b>0.9307</b>	<b>1.4609</b>	<b>0.0573</b>	<b>0.8958</b>	<b>0.9530</b>		<b>4,890.6966</b>	<b>4,890.6966</b>	<b>0.8652</b>		<b>4,912.3261</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**3.2 Stage 1 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7800e-003	0.6275	0.1715	2.7300e-003	0.0814	5.2000e-003	0.0866	0.0223	4.9800e-003	0.0273		302.4553	302.4553	0.0159	0.0481	317.1982
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.1863	0.1204	1.5160	5.1100e-003	0.6387	3.1500e-003	0.6418	0.1694	2.9000e-003	0.1723		527.0615	527.0615	0.0116	0.0127	531.1394
<b>Total</b>	<b>0.2068</b>	<b>1.1607</b>	<b>1.8373</b>	<b>9.6700e-003</b>	<b>0.7813</b>	<b>0.0107</b>	<b>0.7920</b>	<b>0.2093</b>	<b>0.0102</b>	<b>0.2195</b>		<b>1,027.7085</b>	<b>1,027.7085</b>	<b>0.0338</b>	<b>0.0896</b>	<b>1,055.2499</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	2.4333	22.0761	26.2637	0.0511		0.9307	0.9307		0.8958	0.8958	0.0000	4,890.6966	4,890.6966	0.8652		4,912.3261
<b>Total</b>	<b>2.4333</b>	<b>22.0761</b>	<b>26.2637</b>	<b>0.0511</b>	<b>0.2386</b>	<b>0.9307</b>	<b>1.1693</b>	<b>0.0258</b>	<b>0.8958</b>	<b>0.9216</b>	<b>0.0000</b>	<b>4,890.6966</b>	<b>4,890.6966</b>	<b>0.8652</b>		<b>4,912.3261</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**3.2 Stage 1 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7800e-003	0.6275	0.1715	2.7300e-003	0.0814	5.2000e-003	0.0866	0.0223	4.9800e-003	0.0273		302.4553	302.4553	0.0159	0.0481	317.1982
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.1863	0.1204	1.5160	5.1100e-003	0.6387	3.1500e-003	0.6418	0.1694	2.9000e-003	0.1723		527.0615	527.0615	0.0116	0.0127	531.1394
<b>Total</b>	<b>0.2068</b>	<b>1.1607</b>	<b>1.8373</b>	<b>9.6700e-003</b>	<b>0.7813</b>	<b>0.0107</b>	<b>0.7920</b>	<b>0.2093</b>	<b>0.0102</b>	<b>0.2195</b>		<b>1,027.7085</b>	<b>1,027.7085</b>	<b>0.0338</b>	<b>0.0896</b>	<b>1,055.2499</b>

**3.3 Stage 1 Night Delivery - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1482	11.3919	13.6271	0.0255		0.4749	0.4749		0.4546	0.4546		2,440.3794	2,440.3794	0.4367		2,451.2968
<b>Total</b>	<b>1.1482</b>	<b>11.3919</b>	<b>13.6271</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.4749</b>	<b>0.4749</b>	<b>0.0000</b>	<b>0.4546</b>	<b>0.4546</b>		<b>2,440.3794</b>	<b>2,440.3794</b>	<b>0.4367</b>		<b>2,451.2968</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**3.3 Stage 1 Night Delivery - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.1863	0.1204	1.5160	5.1100e-003	0.6387	3.1500e-003	0.6418	0.1694	2.9000e-003	0.1723		527.0615	527.0615	0.0116	0.0127	531.1394
<b>Total</b>	<b>0.1970</b>	<b>0.5331</b>	<b>1.6657</b>	<b>6.9400e-003</b>	<b>0.6999</b>	<b>5.5400e-003</b>	<b>0.7055</b>	<b>0.1870</b>	<b>5.1900e-003</b>	<b>0.1922</b>		<b>725.2532</b>	<b>725.2532</b>	<b>0.0178</b>	<b>0.0415</b>	<b>738.0517</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1482	11.3919	13.6271	0.0255		0.4749	0.4749		0.4546	0.4546	0.0000	2,440.3794	2,440.3794	0.4367		2,451.2968
<b>Total</b>	<b>1.1482</b>	<b>11.3919</b>	<b>13.6271</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.4749</b>	<b>0.4749</b>	<b>0.0000</b>	<b>0.4546</b>	<b>0.4546</b>	<b>0.0000</b>	<b>2,440.3794</b>	<b>2,440.3794</b>	<b>0.4367</b>		<b>2,451.2968</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**3.3 Stage 1 Night Delivery - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.1863	0.1204	1.5160	5.1100e-003	0.6387	3.1500e-003	0.6418	0.1694	2.9000e-003	0.1723		527.0615	527.0615	0.0116	0.0127	531.1394
<b>Total</b>	<b>0.1970</b>	<b>0.5331</b>	<b>1.6657</b>	<b>6.9400e-003</b>	<b>0.6999</b>	<b>5.5400e-003</b>	<b>0.7055</b>	<b>0.1870</b>	<b>5.1900e-003</b>	<b>0.1922</b>		<b>725.2532</b>	<b>725.2532</b>	<b>0.0178</b>	<b>0.0415</b>	<b>738.0517</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383



Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Unmitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 1 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

**Camino Del Mar Bridge Replacement Stage 2  
San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = concrete pump truck.

Other Construction Equipment = bidwell concrete machine.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = concrete pump truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = pavement striping truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Architectural Coating - Traffic marking VOC content limit per SDAPCD 67.0.1, effective January 1, 2022.

Construction Off-road Equipment Mitigation - Dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	3,000.00	4,500.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	200.00	10.00
tblConstructionPhase	NumDays	200.00	32.00
tblConstructionPhase	NumDays	200.00	11.00
tblConstructionPhase	NumDays	200.00	50.00
tblConstructionPhase	NumDays	200.00	27.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	200.00	4.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	4.00
tblOffRoadEquipment	HorsePower	172.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00



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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	HaulingTripNumber	0.00	512.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	30.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	4.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	100.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2024	0.2149	1.7862	2.3594	4.8900e-003	0.0755	0.0754	0.1510	0.0202	0.0723	0.0925	0.0000	429.4520	429.4520	0.0691	5.0100e-003	432.6722
2025	0.1493	1.1480	1.4155	3.4600e-003	0.0612	0.0436	0.1048	0.0164	0.0416	0.0580	0.0000	307.2444	307.2444	0.0486	7.0900e-003	310.5734
<b>Maximum</b>	<b>0.2149</b>	<b>1.7862</b>	<b>2.3594</b>	<b>4.8900e-003</b>	<b>0.0755</b>	<b>0.0754</b>	<b>0.1510</b>	<b>0.0202</b>	<b>0.0723</b>	<b>0.0925</b>	<b>0.0000</b>	<b>429.4520</b>	<b>429.4520</b>	<b>0.0691</b>	<b>7.0900e-003</b>	<b>432.6722</b>

**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					
2024	0.2149	1.7862	2.3594	4.8900e-003	0.0755	0.0754	0.1510	0.0202	0.0723	0.0925	0.0000	429.4516	429.4516	0.0691	5.0100e-003	432.6717
2025	0.1493	1.1480	1.4155	3.4600e-003	0.0612	0.0436	0.1048	0.0164	0.0416	0.0580	0.0000	307.2441	307.2441	0.0486	7.0900e-003	310.5731
<b>Maximum</b>	<b>0.2149</b>	<b>1.7862</b>	<b>2.3594</b>	<b>4.8900e-003</b>	<b>0.0755</b>	<b>0.0754</b>	<b>0.1510</b>	<b>0.0202</b>	<b>0.0723</b>	<b>0.0925</b>	<b>0.0000</b>	<b>429.4516</b>	<b>429.4516</b>	<b>0.0691</b>	<b>7.0900e-003</b>	<b>432.6717</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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)
1	8-1-2024	10-31-2024	1.2008	1.2008
2	11-1-2024	1-31-2025	1.1414	1.1414
3	2-1-2025	4-30-2025	0.7425	0.7425
4	5-1-2025	7-31-2025	0.1958	0.1958
		Highest	1.2008	1.2008

**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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 2 Temporary Trestle	Building Construction	8/1/2024	8/14/2024	5	10	
2	Stage 2 Cofferdams for Demo	Building Construction	8/15/2024	9/27/2024	5	32	
3	Stage 2 Bridge Demolition	Demolition	9/28/2024	10/29/2024	5	22	

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

4	Stage 2 Cofferdams for Piers	Building Construction	10/30/2024	11/13/2024	5	11
5	Stage 2 Bridge Piers Forms and Steel	Building Construction	11/14/2024	1/22/2025	5	50
6	Stage 2 Bridge Piers Concrete	Building Construction	1/23/2025	2/28/2025	5	27
7	Stage 2 Bridge Deck Forms and Steel	Building Construction	3/1/2025	4/11/2025	5	30
8	Stage 2 Night Delivery	Building Construction	3/17/2025	3/20/2025	5	4
9	Stage 2 Bridge Deck Concrete	Building Construction	4/12/2025	5/23/2025	5	30
10	Stage 2 Paving	Paving	5/24/2025	5/29/2025	5	4
11	Stage 2 Pavement Marking	Architectural Coating	5/30/2025	5/30/2025	5	1

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 4,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 2 Temporary Trestle	Air Compressors	2	8.00	78	0.48
Stage 2 Temporary Trestle	Cranes	2	8.00	231	0.29
Stage 2 Temporary Trestle	Crawler Tractors	1	8.00	212	0.43
Stage 2 Temporary Trestle	Excavators	2	8.00	158	0.38
Stage 2 Temporary Trestle	Generator Sets	2	8.00	84	0.74
Stage 2 Temporary Trestle	Rough Terrain Forklifts	2	8.00	100	0.40
Stage 2 Temporary Trestle	Rubber Tired Loaders	1	8.00	203	0.36
Stage 2 Temporary Trestle	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Temporary Trestle	Welders	1	8.00	46	0.45
Stage 2 Cofferdams for Demo	Air Compressors	2	8.00	78	0.48
Stage 2 Cofferdams for Demo	Cranes	3	8.00	231	0.29

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

Stage 2 Cofferdams for Demo	Excavators	2	8.00	158	0.38
Stage 2 Cofferdams for Demo	Generator Sets	2	8.00	84	0.74
Stage 2 Cofferdams for Demo	Pumps	3	8.00	84	0.74
Stage 2 Cofferdams for Demo	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Cofferdams for Demo	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Cofferdams for Demo	Welders	1	8.00	46	0.45
Stage 2 Bridge Demolition	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stage 2 Bridge Demolition	Cranes	2	8.00	231	0.29
Stage 2 Bridge Demolition	Excavators	2	8.00	158	0.38
Stage 2 Bridge Demolition	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stage 2 Cofferdams for Piers	Air Compressors	2	8.00	78	0.48
Stage 2 Cofferdams for Piers	Cranes	3	6.00	231	0.29
Stage 2 Cofferdams for Piers	Excavators	2	8.00	158	0.38
Stage 2 Cofferdams for Piers	Generator Sets	2	8.00	84	0.74
Stage 2 Cofferdams for Piers	Pumps	3	8.00	84	0.74
Stage 2 Cofferdams for Piers	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Cofferdams for Piers	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Stage 2 Cofferdams for Piers	Welders	1	8.00	46	0.45
Stage 2 Bridge Piers Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Piers Forms and Steel	Bore/Drill Rigs	1	8.00	221	0.50
Stage 2 Bridge Piers Forms and Steel	Cranes	2	8.00	231	0.29
Stage 2 Bridge Piers Forms and Steel	Excavators	2	8.00	158	0.38
Stage 2 Bridge Piers Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Piers Forms and Steel	Pumps	2	8.00	84	0.74
Stage 2 Bridge Piers Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Bridge Piers Forms and Steel	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Bridge Piers Forms and Steel	Welders	2	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 Applied**

Stage 2 Bridge Piers Concrete	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Piers Concrete	Cranes	2	6.00	231	0.29
Stage 2 Bridge Piers Concrete	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Piers Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 2 Bridge Piers Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Deck Forms and Steel	Cranes	2	8.00	231	0.29
Stage 2 Bridge Deck Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Deck Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Bridge Deck Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Forms and Steel	Welders	2	8.00	46	0.45
Stage 2 Night Delivery	Cranes	1	8.00	231	0.29
Stage 2 Night Delivery	Generator Sets	2	8.00	84	0.74
Stage 2 Night Delivery	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Night Delivery	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Concrete	Cranes	2	8.00	231	0.29
Stage 2 Bridge Deck Concrete	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Deck Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 2 Bridge Deck Concrete	Other Construction Equipment	1	8.00	50	0.42
Stage 2 Bridge Deck Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Paving	Pavers	1	8.00	130	0.42
Stage 2 Paving	Paving Equipment	1	8.00	132	0.36
Stage 2 Paving	Rollers	1	8.00	80	0.38
Stage 2 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Pavement Marking	Air Compressors	1	8.00	78	0.48
Stage 2 Pavement Marking	Off-Highway Trucks	1	8.00	402	0.38

**Trips and VMT**



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

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
Stage 2 Temporary Trestle	15	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Cofferdams for Demolition	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Demolition	12	100.00	10.00	500.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Cofferdams for Piers	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Piers Forms and Steel	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Piers Concrete	8	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Deck Forms and Steel	10	100.00	10.00	512.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Night Delivery	5	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Deck Concrete	7	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Paving	4	40.00	10.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Pavement Marking	2	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 2 Temporary Trestle - 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	0.0174	0.1610	0.1832	3.6000e-004		6.6900e-003	6.6900e-003		6.3300e-003	6.3300e-003	0.0000	31.5582	31.5582	7.4900e-003	0.0000	31.7454
<b>Total</b>	<b>0.0174</b>	<b>0.1610</b>	<b>0.1832</b>	<b>3.6000e-004</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>31.5582</b>	<b>31.5582</b>	<b>7.4900e-003</b>	<b>0.0000</b>	<b>31.7454</b>

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

**3.2 Stage 2 Temporary Trestle - 2024**

**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	5.0000e-005	2.0500e-003	7.4000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8982	0.8982	3.0000e-005	1.3000e-004	0.9377
Worker	1.6700e-003	1.1800e-003	0.0152	5.0000e-005	6.2300e-003	3.0000e-005	6.2700e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	4.8241	4.8241	1.0000e-004	1.1000e-004	4.8607
<b>Total</b>	<b>1.7200e-003</b>	<b>3.2300e-003</b>	<b>0.0160</b>	<b>6.0000e-005</b>	<b>6.5300e-003</b>	<b>4.0000e-005</b>	<b>6.5800e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>5.7223</b>	<b>5.7223</b>	<b>1.3000e-004</b>	<b>2.4000e-004</b>	<b>5.7984</b>

**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	0.0174	0.1610	0.1832	3.6000e-004		6.6900e-003	6.6900e-003		6.3300e-003	6.3300e-003	0.0000	31.5582	31.5582	7.4900e-003	0.0000	31.7454
<b>Total</b>	<b>0.0174</b>	<b>0.1610</b>	<b>0.1832</b>	<b>3.6000e-004</b>		<b>6.6900e-003</b>	<b>6.6900e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>31.5582</b>	<b>31.5582</b>	<b>7.4900e-003</b>	<b>0.0000</b>	<b>31.7454</b>

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

**3.2 Stage 2 Temporary Trestle - 2024**

**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	5.0000e-005	2.0500e-003	7.4000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8982	0.8982	3.0000e-005	1.3000e-004	0.9377
Worker	1.6700e-003	1.1800e-003	0.0152	5.0000e-005	6.2300e-003	3.0000e-005	6.2700e-003	1.6600e-003	3.0000e-005	1.6900e-003	0.0000	4.8241	4.8241	1.0000e-004	1.1000e-004	4.8607
<b>Total</b>	<b>1.7200e-003</b>	<b>3.2300e-003</b>	<b>0.0160</b>	<b>6.0000e-005</b>	<b>6.5300e-003</b>	<b>4.0000e-005</b>	<b>6.5800e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>5.7223</b>	<b>5.7223</b>	<b>1.3000e-004</b>	<b>2.4000e-004</b>	<b>5.7984</b>

**3.3 Stage 2 Cofferdams for Demo - 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	0.0632	0.5603	0.6975	1.2900e-003		0.0245	0.0245		0.0236	0.0236	0.0000	111.5823	111.5823	0.0198	0.0000	112.0776
<b>Total</b>	<b>0.0632</b>	<b>0.5603</b>	<b>0.6975</b>	<b>1.2900e-003</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0236</b>	<b>0.0236</b>	<b>0.0000</b>	<b>111.5823</b>	<b>111.5823</b>	<b>0.0198</b>	<b>0.0000</b>	<b>112.0776</b>

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**3.3 Stage 2 Coffers Dams for Demo - 2024**

**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	1.7000e-004	6.5600e-003	2.3500e-003	3.0000e-005	9.6000e-004	4.0000e-005	1.0000e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	2.8741	2.8741	9.0000e-005	4.2000e-004	3.0005
Worker	5.3600e-003	3.7800e-003	0.0488	1.6000e-004	0.0200	1.0000e-004	0.0201	5.3000e-003	9.0000e-005	5.3900e-003	0.0000	15.4373	15.4373	3.3000e-004	3.6000e-004	15.5542
<b>Total</b>	<b>5.5300e-003</b>	<b>0.0103</b>	<b>0.0511</b>	<b>1.9000e-004</b>	<b>0.0209</b>	<b>1.4000e-004</b>	<b>0.0211</b>	<b>5.5800e-003</b>	<b>1.3000e-004</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>18.3113</b>	<b>18.3113</b>	<b>4.2000e-004</b>	<b>7.8000e-004</b>	<b>18.5547</b>

**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	0.0632	0.5603	0.6975	1.2900e-003		0.0245	0.0245		0.0236	0.0236	0.0000	111.5822	111.5822	0.0198	0.0000	112.0775
<b>Total</b>	<b>0.0632</b>	<b>0.5603</b>	<b>0.6975</b>	<b>1.2900e-003</b>		<b>0.0245</b>	<b>0.0245</b>		<b>0.0236</b>	<b>0.0236</b>	<b>0.0000</b>	<b>111.5822</b>	<b>111.5822</b>	<b>0.0198</b>	<b>0.0000</b>	<b>112.0775</b>

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

**3.3 Stage 2 Cofferdams for Demo - 2024**

**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	1.7000e-004	6.5600e-003	2.3500e-003	3.0000e-005	9.6000e-004	4.0000e-005	1.0000e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	2.8741	2.8741	9.0000e-005	4.2000e-004	3.0005
Worker	5.3600e-003	3.7800e-003	0.0488	1.6000e-004	0.0200	1.0000e-004	0.0201	5.3000e-003	9.0000e-005	5.3900e-003	0.0000	15.4373	15.4373	3.3000e-004	3.6000e-004	15.5542
<b>Total</b>	<b>5.5300e-003</b>	<b>0.0103</b>	<b>0.0511</b>	<b>1.9000e-004</b>	<b>0.0209</b>	<b>1.4000e-004</b>	<b>0.0211</b>	<b>5.5800e-003</b>	<b>1.3000e-004</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>18.3113</b>	<b>18.3113</b>	<b>4.2000e-004</b>	<b>7.8000e-004</b>	<b>18.5547</b>

**3.4 Stage 2 Bridge Demolition - 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	0.0310	0.2740	0.3585	6.4000e-004		0.0124	0.0124		0.0118	0.0118	0.0000	56.0094	56.0094	0.0110	0.0000	56.2835
<b>Total</b>	<b>0.0310</b>	<b>0.2740</b>	<b>0.3585</b>	<b>6.4000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>56.0094</b>	<b>56.0094</b>	<b>0.0110</b>	<b>0.0000</b>	<b>56.2835</b>

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

**3.4 Stage 2 Bridge Demolition - 2024**

**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	0.0336	9.1500e-003	1.5000e-004	4.2800e-003	2.8000e-004	4.5600e-003	1.1800e-003	2.7000e-004	1.4400e-003	0.0000	14.7396	14.7396	7.8000e-004	2.3500e-003	15.4581
Vendor	1.2000e-004	4.5100e-003	1.6200e-003	2.0000e-005	6.6000e-004	3.0000e-005	6.9000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	1.9759	1.9759	6.0000e-005	2.9000e-004	2.0629
Worker	3.6800e-003	2.6000e-003	0.0335	1.1000e-004	0.0137	7.0000e-005	0.0138	3.6400e-003	6.0000e-005	3.7100e-003	0.0000	10.6131	10.6131	2.3000e-004	2.5000e-004	10.6935
<b>Total</b>	<b>4.3500e-003</b>	<b>0.0407</b>	<b>0.0443</b>	<b>2.8000e-004</b>	<b>0.0187</b>	<b>3.8000e-004</b>	<b>0.0190</b>	<b>5.0100e-003</b>	<b>3.6000e-004</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>27.3287</b>	<b>27.3287</b>	<b>1.0700e-003</b>	<b>2.8900e-003</b>	<b>28.2145</b>

**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	0.0310	0.2740	0.3585	6.4000e-004		0.0124	0.0124		0.0118	0.0118	0.0000	56.0093	56.0093	0.0110	0.0000	56.2834
<b>Total</b>	<b>0.0310</b>	<b>0.2740</b>	<b>0.3585</b>	<b>6.4000e-004</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0118</b>	<b>0.0118</b>	<b>0.0000</b>	<b>56.0093</b>	<b>56.0093</b>	<b>0.0110</b>	<b>0.0000</b>	<b>56.2834</b>

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

**3.4 Stage 2 Bridge Demolition - 2024**

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	0.0336	9.1500e-003	1.5000e-004	4.2800e-003	2.8000e-004	4.5600e-003	1.1800e-003	2.7000e-004	1.4400e-003	0.0000	14.7396	14.7396	7.8000e-004	2.3500e-003	15.4581
Vendor	1.2000e-004	4.5100e-003	1.6200e-003	2.0000e-005	6.6000e-004	3.0000e-005	6.9000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	1.9759	1.9759	6.0000e-005	2.9000e-004	2.0629
Worker	3.6800e-003	2.6000e-003	0.0335	1.1000e-004	0.0137	7.0000e-005	0.0138	3.6400e-003	6.0000e-005	3.7100e-003	0.0000	10.6131	10.6131	2.3000e-004	2.5000e-004	10.6935
<b>Total</b>	<b>4.3500e-003</b>	<b>0.0407</b>	<b>0.0443</b>	<b>2.8000e-004</b>	<b>0.0187</b>	<b>3.8000e-004</b>	<b>0.0190</b>	<b>5.0100e-003</b>	<b>3.6000e-004</b>	<b>5.3700e-003</b>	<b>0.0000</b>	<b>27.3287</b>	<b>27.3287</b>	<b>1.0700e-003</b>	<b>2.8900e-003</b>	<b>28.2145</b>

**3.5 Stage 2 Cofferdams for Piers - 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	0.0200	0.1742	0.2263	4.1000e-004		7.6500e-003	7.6500e-003		7.3800e-003	7.3800e-003	0.0000	35.5124	35.5124	5.8900e-003	0.0000	35.6597
<b>Total</b>	<b>0.0200</b>	<b>0.1742</b>	<b>0.2263</b>	<b>4.1000e-004</b>		<b>7.6500e-003</b>	<b>7.6500e-003</b>		<b>7.3800e-003</b>	<b>7.3800e-003</b>	<b>0.0000</b>	<b>35.5124</b>	<b>35.5124</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>35.6597</b>

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

**3.5 Stage 2 Cofferdams for Piers - 2024**

**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	6.0000e-005	2.2500e-003	8.1000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9880	0.9880	3.0000e-005	1.4000e-004	1.0314
Worker	1.8400e-003	1.3000e-003	0.0168	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8200e-003	3.0000e-005	1.8500e-003	0.0000	5.3066	5.3066	1.1000e-004	1.3000e-004	5.3468
<b>Total</b>	<b>1.9000e-003</b>	<b>3.5500e-003</b>	<b>0.0176</b>	<b>7.0000e-005</b>	<b>7.1900e-003</b>	<b>4.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9200e-003</b>	<b>4.0000e-005</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.2945</b>	<b>6.2945</b>	<b>1.4000e-004</b>	<b>2.7000e-004</b>	<b>6.3782</b>

**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	0.0200	0.1742	0.2263	4.1000e-004		7.6500e-003	7.6500e-003		7.3800e-003	7.3800e-003	0.0000	35.5124	35.5124	5.8900e-003	0.0000	35.6597
<b>Total</b>	<b>0.0200</b>	<b>0.1742</b>	<b>0.2263</b>	<b>4.1000e-004</b>		<b>7.6500e-003</b>	<b>7.6500e-003</b>		<b>7.3800e-003</b>	<b>7.3800e-003</b>	<b>0.0000</b>	<b>35.5124</b>	<b>35.5124</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>35.6597</b>



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

**3.5 Stage 2 Cofferdams for Piers - 2024**

**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	6.0000e-005	2.2500e-003	8.1000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9880	0.9880	3.0000e-005	1.4000e-004	1.0314
Worker	1.8400e-003	1.3000e-003	0.0168	6.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8200e-003	3.0000e-005	1.8500e-003	0.0000	5.3066	5.3066	1.1000e-004	1.3000e-004	5.3468
<b>Total</b>	<b>1.9000e-003</b>	<b>3.5500e-003</b>	<b>0.0176</b>	<b>7.0000e-005</b>	<b>7.1900e-003</b>	<b>4.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9200e-003</b>	<b>4.0000e-005</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.2945</b>	<b>6.2945</b>	<b>1.4000e-004</b>	<b>2.7000e-004</b>	<b>6.3782</b>

**3.6 Stage 2 Bridge Piers Forms and Steel - 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	0.0639	0.5477	0.7106	1.3700e-003		0.0235	0.0235		0.0226	0.0226	0.0000	117.6771	117.6771	0.0227	0.0000	118.2457
<b>Total</b>	<b>0.0639</b>	<b>0.5477</b>	<b>0.7106</b>	<b>1.3700e-003</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>117.6771</b>	<b>117.6771</b>	<b>0.0227</b>	<b>0.0000</b>	<b>118.2457</b>

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2024**

**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	1.8000e-004	6.9700e-003	2.5000e-003	3.0000e-005	1.0200e-003	4.0000e-005	1.0600e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.0537	3.0537	1.0000e-004	4.4000e-004	3.1881
Worker	5.6900e-003	4.0200e-003	0.0518	1.8000e-004	0.0212	1.1000e-004	0.0213	5.6300e-003	1.0000e-004	5.7300e-003	0.0000	16.4021	16.4021	3.5000e-004	3.9000e-004	16.5264
<b>Total</b>	<b>5.8700e-003</b>	<b>0.0110</b>	<b>0.0543</b>	<b>2.1000e-004</b>	<b>0.0222</b>	<b>1.5000e-004</b>	<b>0.0224</b>	<b>5.9200e-003</b>	<b>1.4000e-004</b>	<b>6.0600e-003</b>	<b>0.0000</b>	<b>19.4558</b>	<b>19.4558</b>	<b>4.5000e-004</b>	<b>8.3000e-004</b>	<b>19.7144</b>

**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	0.0639	0.5477	0.7106	1.3700e-003		0.0235	0.0235		0.0226	0.0226	0.0000	117.6770	117.6770	0.0227	0.0000	118.2456
<b>Total</b>	<b>0.0639</b>	<b>0.5477</b>	<b>0.7106</b>	<b>1.3700e-003</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>117.6770</b>	<b>117.6770</b>	<b>0.0227</b>	<b>0.0000</b>	<b>118.2456</b>

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2024**

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	1.8000e-004	6.9700e-003	2.5000e-003	3.0000e-005	1.0200e-003	4.0000e-005	1.0600e-003	2.9000e-004	4.0000e-005	3.3000e-004	0.0000	3.0537	3.0537	1.0000e-004	4.4000e-004	3.1881
Worker	5.6900e-003	4.0200e-003	0.0518	1.8000e-004	0.0212	1.1000e-004	0.0213	5.6300e-003	1.0000e-004	5.7300e-003	0.0000	16.4021	16.4021	3.5000e-004	3.9000e-004	16.5264
<b>Total</b>	<b>5.8700e-003</b>	<b>0.0110</b>	<b>0.0543</b>	<b>2.1000e-004</b>	<b>0.0222</b>	<b>1.5000e-004</b>	<b>0.0224</b>	<b>5.9200e-003</b>	<b>1.4000e-004</b>	<b>6.0600e-003</b>	<b>0.0000</b>	<b>19.4558</b>	<b>19.4558</b>	<b>4.5000e-004</b>	<b>8.3000e-004</b>	<b>19.7144</b>

**3.6 Stage 2 Bridge Piers Forms and Steel - 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	0.0282	0.2399	0.3332	6.4000e-004		9.6500e-003	9.6500e-003		9.2700e-003	9.2700e-003	0.0000	55.3820	55.3820	0.0106	0.0000	55.6473
<b>Total</b>	<b>0.0282</b>	<b>0.2399</b>	<b>0.3332</b>	<b>6.4000e-004</b>		<b>9.6500e-003</b>	<b>9.6500e-003</b>		<b>9.2700e-003</b>	<b>9.2700e-003</b>	<b>0.0000</b>	<b>55.3820</b>	<b>55.3820</b>	<b>0.0106</b>	<b>0.0000</b>	<b>55.6473</b>

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2025**

**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	8.0000e-005	3.2500e-003	1.1600e-003	1.0000e-005	4.8000e-004	2.0000e-005	5.0000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.4096	1.4096	5.0000e-005	2.0000e-004	1.4717
Worker	2.5300e-003	1.7100e-003	0.0229	8.0000e-005	9.9800e-003	5.0000e-005	0.0100	2.6500e-003	4.0000e-005	2.6900e-003	0.0000	7.5301	7.5301	1.5000e-004	1.7000e-004	7.5847
<b>Total</b>	<b>2.6100e-003</b>	<b>4.9600e-003</b>	<b>0.0240</b>	<b>9.0000e-005</b>	<b>0.0105</b>	<b>7.0000e-005</b>	<b>0.0105</b>	<b>2.7900e-003</b>	<b>6.0000e-005</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>8.9397</b>	<b>8.9397</b>	<b>2.0000e-004</b>	<b>3.7000e-004</b>	<b>9.0564</b>

**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	0.0282	0.2399	0.3332	6.4000e-004		9.6500e-003	9.6500e-003		9.2700e-003	9.2700e-003	0.0000	55.3820	55.3820	0.0106	0.0000	55.6472
<b>Total</b>	<b>0.0282</b>	<b>0.2399</b>	<b>0.3332</b>	<b>6.4000e-004</b>		<b>9.6500e-003</b>	<b>9.6500e-003</b>		<b>9.2700e-003</b>	<b>9.2700e-003</b>	<b>0.0000</b>	<b>55.3820</b>	<b>55.3820</b>	<b>0.0106</b>	<b>0.0000</b>	<b>55.6472</b>

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2025**

**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	8.0000e-005	3.2500e-003	1.1600e-003	1.0000e-005	4.8000e-004	2.0000e-005	5.0000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.4096	1.4096	5.0000e-005	2.0000e-004	1.4717
Worker	2.5300e-003	1.7100e-003	0.0229	8.0000e-005	9.9800e-003	5.0000e-005	0.0100	2.6500e-003	4.0000e-005	2.6900e-003	0.0000	7.5301	7.5301	1.5000e-004	1.7000e-004	7.5847
<b>Total</b>	<b>2.6100e-003</b>	<b>4.9600e-003</b>	<b>0.0240</b>	<b>9.0000e-005</b>	<b>0.0105</b>	<b>7.0000e-005</b>	<b>0.0105</b>	<b>2.7900e-003</b>	<b>6.0000e-005</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>8.9397</b>	<b>8.9397</b>	<b>2.0000e-004</b>	<b>3.7000e-004</b>	<b>9.0564</b>

**3.7 Stage 2 Bridge Piers Concrete - 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	0.0279	0.2268	0.2722	6.2000e-004		9.2700e-003	9.2700e-003		8.8800e-003	8.8800e-003	0.0000	54.0897	54.0897	0.0107	0.0000	54.3560
<b>Total</b>	<b>0.0279</b>	<b>0.2268</b>	<b>0.2722</b>	<b>6.2000e-004</b>		<b>9.2700e-003</b>	<b>9.2700e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>	<b>0.0000</b>	<b>54.0897</b>	<b>54.0897</b>	<b>0.0107</b>	<b>0.0000</b>	<b>54.3560</b>

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

**3.7 Stage 2 Bridge Piers Concrete - 2025**

**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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.4000e-004	5.4800e-003	1.9500e-003	2.0000e-005	8.1000e-004	3.0000e-005	8.4000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.3788	2.3788	8.0000e-005	3.4000e-004	2.4835
Worker	2.1300e-003	1.4400e-003	0.0193	7.0000e-005	8.4200e-003	4.0000e-005	8.4600e-003	2.2400e-003	4.0000e-005	2.2700e-003	0.0000	6.3535	6.3535	1.3000e-004	1.4000e-004	6.3996
<b>Total</b>	<b>2.5500e-003</b>	<b>0.0242</b>	<b>0.0261</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>2.1000e-004</b>	<b>0.0117</b>	<b>3.0800e-003</b>	<b>2.1000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>16.2415</b>	<b>16.2415</b>	<b>6.3000e-004</b>	<b>1.6800e-003</b>	<b>16.7591</b>

**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	0.0279	0.2268	0.2722	6.2000e-004		9.2700e-003	9.2700e-003		8.8800e-003	8.8800e-003	0.0000	54.0896	54.0896	0.0107	0.0000	54.3559
<b>Total</b>	<b>0.0279</b>	<b>0.2268</b>	<b>0.2722</b>	<b>6.2000e-004</b>		<b>9.2700e-003</b>	<b>9.2700e-003</b>		<b>8.8800e-003</b>	<b>8.8800e-003</b>	<b>0.0000</b>	<b>54.0896</b>	<b>54.0896</b>	<b>0.0107</b>	<b>0.0000</b>	<b>54.3559</b>

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

**3.7 Stage 2 Bridge Piers Concrete - 2025**

**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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.4000e-004	5.4800e-003	1.9500e-003	2.0000e-005	8.1000e-004	3.0000e-005	8.4000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.3788	2.3788	8.0000e-005	3.4000e-004	2.4835
Worker	2.1300e-003	1.4400e-003	0.0193	7.0000e-005	8.4200e-003	4.0000e-005	8.4600e-003	2.2400e-003	4.0000e-005	2.2700e-003	0.0000	6.3535	6.3535	1.3000e-004	1.4000e-004	6.3996
<b>Total</b>	<b>2.5500e-003</b>	<b>0.0242</b>	<b>0.0261</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>2.1000e-004</b>	<b>0.0117</b>	<b>3.0800e-003</b>	<b>2.1000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>16.2415</b>	<b>16.2415</b>	<b>6.3000e-004</b>	<b>1.6800e-003</b>	<b>16.7591</b>

**3.8 Stage 2 Bridge Deck Forms and Steel - 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	0.0342	0.2923	0.3515	6.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	56.6761	56.6761	9.4400e-003	0.0000	56.9120
<b>Total</b>	<b>0.0342</b>	<b>0.2923</b>	<b>0.3515</b>	<b>6.6000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>56.6761</b>	<b>56.6761</b>	<b>9.4400e-003</b>	<b>0.0000</b>	<b>56.9120</b>

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

**3.8 Stage 2 Bridge Deck Forms and Steel - 2025**

**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	0.0340	9.5000e-003	1.5000e-004	4.3800e-003	2.9000e-004	4.6700e-003	1.2000e-003	2.7000e-004	1.4800e-003	0.0000	14.7874	14.7874	8.2000e-004	2.3600e-003	15.5098
Vendor	1.6000e-004	6.0900e-003	2.1700e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.6431	2.6431	9.0000e-005	3.8000e-004	2.7594
Worker	4.7400e-003	3.2000e-003	0.0428	1.5000e-004	0.0187	9.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0500e-003	0.0000	14.1188	14.1188	2.8000e-004	3.2000e-004	14.2213
<b>Total</b>	<b>5.4500e-003</b>	<b>0.0433</b>	<b>0.0545</b>	<b>3.3000e-004</b>	<b>0.0240</b>	<b>4.2000e-004</b>	<b>0.0244</b>	<b>6.4300e-003</b>	<b>3.8000e-004</b>	<b>6.8200e-003</b>	<b>0.0000</b>	<b>31.5493</b>	<b>31.5493</b>	<b>1.1900e-003</b>	<b>3.0600e-003</b>	<b>32.4905</b>

**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	0.0342	0.2923	0.3515	6.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	56.6760	56.6760	9.4400e-003	0.0000	56.9119
<b>Total</b>	<b>0.0342</b>	<b>0.2923</b>	<b>0.3515</b>	<b>6.6000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>56.6760</b>	<b>56.6760</b>	<b>9.4400e-003</b>	<b>0.0000</b>	<b>56.9119</b>



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

**3.8 Stage 2 Bridge Deck Forms and Steel - 2025**

**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	0.0340	9.5000e-003	1.5000e-004	4.3800e-003	2.9000e-004	4.6700e-003	1.2000e-003	2.7000e-004	1.4800e-003	0.0000	14.7874	14.7874	8.2000e-004	2.3600e-003	15.5098
Vendor	1.6000e-004	6.0900e-003	2.1700e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.6431	2.6431	9.0000e-005	3.8000e-004	2.7594
Worker	4.7400e-003	3.2000e-003	0.0428	1.5000e-004	0.0187	9.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0500e-003	0.0000	14.1188	14.1188	2.8000e-004	3.2000e-004	14.2213
<b>Total</b>	<b>5.4500e-003</b>	<b>0.0433</b>	<b>0.0545</b>	<b>3.3000e-004</b>	<b>0.0240</b>	<b>4.2000e-004</b>	<b>0.0244</b>	<b>6.4300e-003</b>	<b>3.8000e-004</b>	<b>6.8200e-003</b>	<b>0.0000</b>	<b>31.5493</b>	<b>31.5493</b>	<b>1.1900e-003</b>	<b>3.0600e-003</b>	<b>32.4905</b>

**3.9 Stage 2 Night Delivery - 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	2.1500e-003	0.0212	0.0271	5.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	4.4283	4.4283	7.8000e-004	0.0000	4.4479
<b>Total</b>	<b>2.1500e-003</b>	<b>0.0212</b>	<b>0.0271</b>	<b>5.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>4.4283</b>	<b>4.4283</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>4.4479</b>

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

**3.9 Stage 2 Night Delivery - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3524	0.3524	1.0000e-005	5.0000e-005	0.3679
Worker	3.2000e-004	2.1000e-004	2.8600e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9413	0.9413	2.0000e-005	2.0000e-005	0.9481
<b>Total</b>	<b>3.4000e-004</b>	<b>1.0200e-003</b>	<b>3.1500e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.2937</b>	<b>1.2937</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.3160</b>

**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	2.1500e-003	0.0212	0.0271	5.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	4.4283	4.4283	7.8000e-004	0.0000	4.4479
<b>Total</b>	<b>2.1500e-003</b>	<b>0.0212</b>	<b>0.0271</b>	<b>5.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>4.4283</b>	<b>4.4283</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>4.4479</b>

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

**3.9 Stage 2 Night Delivery - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3524	0.3524	1.0000e-005	5.0000e-005	0.3679
Worker	3.2000e-004	2.1000e-004	2.8600e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9413	0.9413	2.0000e-005	2.0000e-005	0.9481
<b>Total</b>	<b>3.4000e-004</b>	<b>1.0200e-003</b>	<b>3.1500e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.2937</b>	<b>1.2937</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.3160</b>

**3.10 Stage 2 Bridge Deck Concrete - 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	0.0307	0.2538	0.2702	6.5000e-004		0.0107	0.0107		0.0101	0.0101	0.0000	56.3548	56.3548	0.0134	0.0000	56.6890
<b>Total</b>	<b>0.0307</b>	<b>0.2538</b>	<b>0.2702</b>	<b>6.5000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>56.3548</b>	<b>56.3548</b>	<b>0.0134</b>	<b>0.0000</b>	<b>56.6890</b>

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

**3.10 Stage 2 Bridge Deck Concrete - 2025**

**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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.6000e-004	6.0900e-003	2.1700e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.6431	2.6431	9.0000e-005	3.8000e-004	2.7594
Worker	2.3700e-003	1.6000e-003	0.0214	7.0000e-005	9.3500e-003	5.0000e-005	9.4000e-003	2.4800e-003	4.0000e-005	2.5300e-003	0.0000	7.0594	7.0594	1.4000e-004	1.6000e-004	7.1107
<b>Total</b>	<b>2.8100e-003</b>	<b>0.0249</b>	<b>0.0284</b>	<b>1.7000e-004</b>	<b>0.0125</b>	<b>2.3000e-004</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>2.1000e-004</b>	<b>3.5700e-003</b>	<b>0.0000</b>	<b>17.2117</b>	<b>17.2117</b>	<b>6.5000e-004</b>	<b>1.7400e-003</b>	<b>17.7461</b>

**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	0.0307	0.2538	0.2702	6.5000e-004		0.0107	0.0107		0.0101	0.0101	0.0000	56.3547	56.3547	0.0134	0.0000	56.6889
<b>Total</b>	<b>0.0307</b>	<b>0.2538</b>	<b>0.2702</b>	<b>6.5000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0101</b>	<b>0.0101</b>	<b>0.0000</b>	<b>56.3547</b>	<b>56.3547</b>	<b>0.0134</b>	<b>0.0000</b>	<b>56.6889</b>

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

**3.10 Stage 2 Bridge Deck Concrete - 2025**

**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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.6000e-004	6.0900e-003	2.1700e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.6431	2.6431	9.0000e-005	3.8000e-004	2.7594
Worker	2.3700e-003	1.6000e-003	0.0214	7.0000e-005	9.3500e-003	5.0000e-005	9.4000e-003	2.4800e-003	4.0000e-005	2.5300e-003	0.0000	7.0594	7.0594	1.4000e-004	1.6000e-004	7.1107
<b>Total</b>	<b>2.8100e-003</b>	<b>0.0249</b>	<b>0.0284</b>	<b>1.7000e-004</b>	<b>0.0125</b>	<b>2.3000e-004</b>	<b>0.0127</b>	<b>3.3500e-003</b>	<b>2.1000e-004</b>	<b>3.5700e-003</b>	<b>0.0000</b>	<b>17.2117</b>	<b>17.2117</b>	<b>6.5000e-004</b>	<b>1.7400e-003</b>	<b>17.7461</b>

**3.11 Stage 2 Paving - 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	1.1800e-003	0.0113	0.0190	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.5500	2.5500	8.2000e-004	0.0000	2.5706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1800e-003</b>	<b>0.0113</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5500</b>	<b>2.5500</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5706</b>

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

**3.11 Stage 2 Paving - 2025**

**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	2.0000e-005	1.3300e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5776	0.5776	3.0000e-005	9.0000e-005	0.6059
Vendor	2.0000e-005	8.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3524	0.3524	1.0000e-005	5.0000e-005	0.3679
Worker	2.5000e-004	1.7000e-004	2.2800e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7530	0.7530	2.0000e-005	2.0000e-005	0.7585
<b>Total</b>	<b>2.9000e-004</b>	<b>2.3100e-003</b>	<b>2.9400e-003</b>	<b>2.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6830</b>	<b>1.6830</b>	<b>6.0000e-005</b>	<b>1.6000e-004</b>	<b>1.7322</b>

**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	1.1800e-003	0.0113	0.0190	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.5500	2.5500	8.2000e-004	0.0000	2.5706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1800e-003</b>	<b>0.0113</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5500</b>	<b>2.5500</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5706</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

**3.11 Stage 2 Paving - 2025**

**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	2.0000e-005	1.3300e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5776	0.5776	3.0000e-005	9.0000e-005	0.6059
Vendor	2.0000e-005	8.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3524	0.3524	1.0000e-005	5.0000e-005	0.3679
Worker	2.5000e-004	1.7000e-004	2.2800e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7530	0.7530	2.0000e-005	2.0000e-005	0.7585
<b>Total</b>	<b>2.9000e-004</b>	<b>2.3100e-003</b>	<b>2.9400e-003</b>	<b>2.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6830</b>	<b>1.6830</b>	<b>6.0000e-005</b>	<b>1.6000e-004</b>	<b>1.7322</b>

**3.12 Stage 2 Pavement Marking - 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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	2.2000e-003	2.8000e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.7507	0.7507	2.0000e-004	0.0000	0.7556
<b>Total</b>	<b>0.0108</b>	<b>2.2000e-003</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7507</b>	<b>0.7507</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7556</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

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

**3.12 Stage 2 Pavement Marking - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.9000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0948
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0948</b>

**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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	2.2000e-003	2.8000e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.7507	0.7507	2.0000e-004	0.0000	0.7556
<b>Total</b>	<b>0.0108</b>	<b>2.2000e-003</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7507</b>	<b>0.7507</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7556</b>



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

**3.12 Stage 2 Pavement Marking - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.9000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0941	0.0941	0.0000	0.0000	0.0948
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0948</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383





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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

**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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**Camino Del Mar Bridge Replacement Stage 2**

**San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = concrete pump truck.

Other Construction Equipment = bidwell concrete machine.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = concrete pump truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = pavement striping truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Architectural Coating - Traffic marking VOC content limit per SDAPCD 67.0.1, effective January 1, 2022.

Construction Off-road Equipment Mitigation - Dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	3,000.00	4,500.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	200.00	10.00
tblConstructionPhase	NumDays	200.00	32.00
tblConstructionPhase	NumDays	200.00	11.00
tblConstructionPhase	NumDays	200.00	50.00
tblConstructionPhase	NumDays	200.00	27.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	200.00	4.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	4.00
tblOffRoadEquipment	HorsePower	172.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	HaulingTripNumber	0.00	512.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	30.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	4.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	100.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	4.3349	35.6744	46.7741	0.0928	1.7361	1.5416	2.8938	0.4653	1.4811	1.8374	0.0000	8,939.7158	8,939.7158	1.6806	0.2894	8,990.7173
2025	21.6334	33.4784	44.6396	0.0980	2.3370	1.2178	3.5548	0.6252	1.1693	1.7945	0.0000	9,624.3810	9,624.3810	1.4894	0.2653	9,734.1934
<b>Maximum</b>	<b>21.6334</b>	<b>35.6744</b>	<b>46.7741</b>	<b>0.0980</b>	<b>2.3370</b>	<b>1.5416</b>	<b>3.5548</b>	<b>0.6252</b>	<b>1.4811</b>	<b>1.8374</b>	<b>0.0000</b>	<b>9,624.3810</b>	<b>9,624.3810</b>	<b>1.6806</b>	<b>0.2894</b>	<b>9,734.1934</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	4.3349	35.6744	46.7741	0.0928	1.7361	1.5416	2.8938	0.4653	1.4811	1.8374	0.0000	8,939.7158	8,939.7158	1.6806	0.2894	8,990.7172
2025	21.6334	33.4784	44.6396	0.0980	2.3370	1.2178	3.5548	0.6252	1.1693	1.7945	0.0000	9,624.3810	9,624.3810	1.4894	0.2653	9,734.1934
<b>Maximum</b>	<b>21.6334</b>	<b>35.6744</b>	<b>46.7741</b>	<b>0.0980</b>	<b>2.3370</b>	<b>1.5416</b>	<b>3.5548</b>	<b>0.6252</b>	<b>1.4811</b>	<b>1.8374</b>	<b>0.0000</b>	<b>9,624.3810</b>	<b>9,624.3810</b>	<b>1.6806</b>	<b>0.2894</b>	<b>9,734.1934</b>



Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Stage 2 Temporary Trestle	Building Construction	8/1/2024	8/14/2024	5	10	
2	Stage 2 Cofferdams for Demo	Building Construction	8/15/2024	9/27/2024	5	32	
3	Stage 2 Bridge Demolition	Demolition	9/28/2024	10/29/2024	5	22	
4	Stage 2 Cofferdams for Piers	Building Construction	10/30/2024	11/13/2024	5	11	
5	Stage 2 Bridge Piers Forms and Steel	Building Construction	11/14/2024	1/22/2025	5	50	
6	Stage 2 Bridge Piers Concrete	Building Construction	1/23/2025	2/28/2025	5	27	
7	Stage 2 Bridge Deck Forms and Steel	Building Construction	3/1/2025	4/11/2025	5	30	
8	Stage 2 Night Delivery	Building Construction	3/17/2025	3/20/2025	5	4	
9	Stage 2 Bridge Deck Concrete	Building Construction	4/12/2025	5/23/2025	5	30	
10	Stage 2 Paving	Paving	5/24/2025	5/29/2025	5	4	
11	Stage 2 Pavement Marking	Architectural Coating	5/30/2025	5/30/2025	5	1	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 4,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 2 Temporary Trestle	Air Compressors	2	8.00	78	0.48
Stage 2 Temporary Trestle	Cranes	2	8.00	231	0.29
Stage 2 Temporary Trestle	Crawler Tractors	1	8.00	212	0.43
Stage 2 Temporary Trestle	Excavators	2	8.00	158	0.38
Stage 2 Temporary Trestle	Generator Sets	2	8.00	84	0.74
Stage 2 Temporary Trestle	Rough Terrain Forklifts	2	8.00	100	0.40
Stage 2 Temporary Trestle	Rubber Tired Loaders	1	8.00	203	0.36
Stage 2 Temporary Trestle	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Temporary Trestle	Welders	1	8.00	46	0.45
Stage 2 Coffer Dams for Demo	Air Compressors	2	8.00	78	0.48
Stage 2 Coffer Dams for Demo	Cranes	3	8.00	231	0.29
Stage 2 Coffer Dams for Demo	Excavators	2	8.00	158	0.38
Stage 2 Coffer Dams for Demo	Generator Sets	2	8.00	84	0.74
Stage 2 Coffer Dams for Demo	Pumps	3	8.00	84	0.74
Stage 2 Coffer Dams for Demo	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Coffer Dams for Demo	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Coffer Dams for Demo	Welders	1	8.00	46	0.45
Stage 2 Bridge Demolition	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stage 2 Bridge Demolition	Cranes	2	8.00	231	0.29
Stage 2 Bridge Demolition	Excavators	2	8.00	158	0.38
Stage 2 Bridge Demolition	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stage 2 Coffer Dams for Piers	Air Compressors	2	8.00	78	0.48
Stage 2 Coffer Dams for Piers	Cranes	3	6.00	231	0.29
Stage 2 Coffer Dams for Piers	Excavators	2	8.00	158	0.38
Stage 2 Coffer Dams for Piers	Generator Sets	2	8.00	84	0.74
Stage 2 Coffer Dams for Piers	Pumps	3	8.00	84	0.74

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

Stage 2 Cofferdams for Piers	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Cofferdams for Piers	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Stage 2 Cofferdams for Piers	Welders	1	8.00	46	0.45
Stage 2 Bridge Piers Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Piers Forms and Steel	Bore/Drill Rigs	1	8.00	221	0.50
Stage 2 Bridge Piers Forms and Steel	Cranes	2	8.00	231	0.29
Stage 2 Bridge Piers Forms and Steel	Excavators	2	8.00	158	0.38
Stage 2 Bridge Piers Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Piers Forms and Steel	Pumps	2	8.00	84	0.74
Stage 2 Bridge Piers Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Bridge Piers Forms and Steel	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 2 Bridge Piers Forms and Steel	Welders	2	8.00	46	0.45
Stage 2 Bridge Piers Concrete	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Piers Concrete	Cranes	2	6.00	231	0.29
Stage 2 Bridge Piers Concrete	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Piers Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 2 Bridge Piers Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 2 Bridge Deck Forms and Steel	Cranes	2	8.00	231	0.29
Stage 2 Bridge Deck Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 2 Bridge Deck Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Bridge Deck Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Forms and Steel	Welders	2	8.00	46	0.45
Stage 2 Night Delivery	Cranes	1	8.00	231	0.29
Stage 2 Night Delivery	Generator Sets	2	8.00	84	0.74
Stage 2 Night Delivery	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 2 Night Delivery	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Bridge Deck Concrete	Cranes	2	8.00	231	0.29
Stage 2 Bridge Deck Concrete	Generator Sets	2	8.00	84	0.74

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

Stage 2 Bridge Deck Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 2 Bridge Deck Concrete	Other Construction Equipment	1	8.00	50	0.42
Stage 2 Bridge Deck Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Paving	Pavers	1	8.00	130	0.42
Stage 2 Paving	Paving Equipment	1	8.00	132	0.36
Stage 2 Paving	Rollers	1	8.00	80	0.38
Stage 2 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 2 Pavement Marking	Air Compressors	1	8.00	78	0.48
Stage 2 Pavement Marking	Off-Highway Trucks	1	8.00	402	0.38

**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
Stage 2 Temporary Trestle	15	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Cofferdams for Demolition	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Demolition	12	100.00	10.00	500.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Cofferdams for Piers	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Piers Forms and Steel	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Piers Concrete	8	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Deck Forms and Steel	10	100.00	10.00	512.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Night Delivery	5	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Bridge Deck Concrete	7	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Paving	4	40.00	10.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 2 Pavement Marking	2	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.2 Stage 2 Temporary Trestle - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4827	32.2071	36.6459	0.0727		1.3385	1.3385		1.2660	1.2660		6,957.3913	6,957.3913	1.6512		6,998.6710
<b>Total</b>	<b>3.4827</b>	<b>32.2071</b>	<b>36.6459</b>	<b>0.0727</b>		<b>1.3385</b>	<b>1.3385</b>		<b>1.2660</b>	<b>1.2660</b>		<b>6,957.3913</b>	<b>6,957.3913</b>	<b>1.6512</b>		<b>6,998.6710</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>



Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.2 Stage 2 Temporary Trestle - 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	lb/day										lb/day					
Off-Road	3.4827	32.2071	36.6459	0.0727		1.3385	1.3385		1.2660	1.2660	0.0000	6,957.3913	6,957.3913	1.6512		6,998.6710
<b>Total</b>	<b>3.4827</b>	<b>32.2071</b>	<b>36.6459</b>	<b>0.0727</b>		<b>1.3385</b>	<b>1.3385</b>		<b>1.2660</b>	<b>1.2660</b>	<b>0.0000</b>	<b>6,957.3913</b>	<b>6,957.3913</b>	<b>1.6512</b>		<b>6,998.6710</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.3 Stage 2 Cofferdams for Demo - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9516	35.0209	43.5923	0.0807		1.5329	1.5329		1.4730	1.4730		7,687.401 2	7,687.401 2	1.3650		7,721.526 2
<b>Total</b>	<b>3.9516</b>	<b>35.0209</b>	<b>43.5923</b>	<b>0.0807</b>		<b>1.5329</b>	<b>1.5329</b>		<b>1.4730</b>	<b>1.4730</b>		<b>7,687.401 2</b>	<b>7,687.401 2</b>	<b>1.3650</b>		<b>7,721.526 2</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.122 9	1,054.122 9	0.0232	0.0254	1,062.278 7
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.314 7</b>	<b>1,252.314 7</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.191 0</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.3 Stage 2 Coffers Dams for Demo - 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	lb/day										lb/day					
Off-Road	3.9516	35.0209	43.5923	0.0807		1.5329	1.5329		1.4730	1.4730	0.0000	7,687.401 2	7,687.401 2	1.3650		7,721.526 2
<b>Total</b>	<b>3.9516</b>	<b>35.0209</b>	<b>43.5923</b>	<b>0.0807</b>		<b>1.5329</b>	<b>1.5329</b>		<b>1.4730</b>	<b>1.4730</b>	<b>0.0000</b>	<b>7,687.401 2</b>	<b>7,687.401 2</b>	<b>1.3650</b>		<b>7,721.526 2</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.122 9	1,054.122 9	0.0232	0.0254	1,062.278 7
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.314 7</b>	<b>1,252.314 7</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.191 0</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.4 Stage 2 Bridge Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8208	24.9125	32.5912	0.0586		1.1236	1.1236		1.0733	1.0733		5,612.7076	5,612.7076	1.0987		5,640.1749
<b>Total</b>	<b>2.8208</b>	<b>24.9125</b>	<b>32.5912</b>	<b>0.0586</b>		<b>1.1236</b>	<b>1.1236</b>		<b>1.0733</b>	<b>1.0733</b>		<b>5,612.7076</b>	<b>5,612.7076</b>	<b>1.0987</b>		<b>5,640.1749</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	3.0663	0.8382	0.0133	0.3975	0.0254	0.4229	0.1090	0.0243	0.1333		1,477.9065	1,477.9065	0.0779	0.2352	1,549.9459
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.4311</b>	<b>3.7198</b>	<b>4.0200</b>	<b>0.0254</b>	<b>1.7361</b>	<b>0.0341</b>	<b>1.7702</b>	<b>0.4653</b>	<b>0.0324</b>	<b>0.4978</b>		<b>2,730.2212</b>	<b>2,730.2212</b>	<b>0.1073</b>	<b>0.2894</b>	<b>2,819.1369</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.4 Stage 2 Bridge Demolition - 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	lb/day										lb/day					
Off-Road	2.8208	24.9125	32.5912	0.0586		1.1236	1.1236		1.0733	1.0733	0.0000	5,612.7075	5,612.7075	1.0987		5,640.1749
<b>Total</b>	<b>2.8208</b>	<b>24.9125</b>	<b>32.5912</b>	<b>0.0586</b>		<b>1.1236</b>	<b>1.1236</b>		<b>1.0733</b>	<b>1.0733</b>	<b>0.0000</b>	<b>5,612.7075</b>	<b>5,612.7075</b>	<b>1.0987</b>		<b>5,640.1749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	3.0663	0.8382	0.0133	0.3975	0.0254	0.4229	0.1090	0.0243	0.1333		1,477.9065	1,477.9065	0.0779	0.2352	1,549.9459
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.4311</b>	<b>3.7198</b>	<b>4.0200</b>	<b>0.0254</b>	<b>1.7361</b>	<b>0.0341</b>	<b>1.7702</b>	<b>0.4653</b>	<b>0.0324</b>	<b>0.4978</b>		<b>2,730.2212</b>	<b>2,730.2212</b>	<b>0.1073</b>	<b>0.2894</b>	<b>2,819.1369</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.5 Stage 2 Cofferdams for Piers - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6308	31.6685	41.1435	0.0748		1.3904	1.3904		1.3418	1.3418		7,117.4123	7,117.4123	1.1807		7,146.9287
<b>Total</b>	<b>3.6308</b>	<b>31.6685</b>	<b>41.1435</b>	<b>0.0748</b>		<b>1.3904</b>	<b>1.3904</b>		<b>1.3418</b>	<b>1.3418</b>		<b>7,117.4123</b>	<b>7,117.4123</b>	<b>1.1807</b>		<b>7,146.9287</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.5 Stage 2 Cofferdams for Piers - 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	lb/day										lb/day					
Off-Road	3.6308	31.6685	41.1435	0.0748		1.3904	1.3904		1.3418	1.3418	0.0000	7,117.4123	7,117.4123	1.1807		7,146.9287
<b>Total</b>	<b>3.6308</b>	<b>31.6685</b>	<b>41.1435</b>	<b>0.0748</b>		<b>1.3904</b>	<b>1.3904</b>		<b>1.3418</b>	<b>1.3418</b>	<b>0.0000</b>	<b>7,117.4123</b>	<b>7,117.4123</b>	<b>1.1807</b>		<b>7,146.9287</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7603	32.2198	41.7999	0.0804		1.3799	1.3799		1.3266	1.3266		7,630.4003	7,630.4003	1.4747		7,667.2687
<b>Total</b>	<b>3.7603</b>	<b>32.2198</b>	<b>41.7999</b>	<b>0.0804</b>		<b>1.3799</b>	<b>1.3799</b>		<b>1.3266</b>	<b>1.3266</b>		<b>7,630.4003</b>	<b>7,630.4003</b>	<b>1.4747</b>		<b>7,667.2687</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>



Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 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	lb/day										lb/day					
Off-Road	3.7603	32.2198	41.7999	0.0804		1.3799	1.3799		1.3266	1.3266	0.0000	7,630.4003	7,630.4003	1.4747		7,667.2687
<b>Total</b>	<b>3.7603</b>	<b>32.2198</b>	<b>41.7999</b>	<b>0.0804</b>		<b>1.3799</b>	<b>1.3799</b>		<b>1.3266</b>	<b>1.3266</b>	<b>0.0000</b>	<b>7,630.4003</b>	<b>7,630.4003</b>	<b>1.4747</b>		<b>7,667.2687</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.4127	0.1497	1.8300e-003	0.0613	2.3900e-003	0.0637	0.0176	2.2900e-003	0.0199		198.1918	198.1918	6.2200e-003	0.0287	206.9123
Worker	0.3727	0.2408	3.0321	0.0102	1.2773	6.3100e-003	1.2836	0.3387	5.8000e-003	0.3445		1,054.1229	1,054.1229	0.0232	0.0254	1,062.2787
<b>Total</b>	<b>0.3833</b>	<b>0.6535</b>	<b>3.1817</b>	<b>0.0121</b>	<b>1.3386</b>	<b>8.7000e-003</b>	<b>1.3473</b>	<b>0.3564</b>	<b>8.0900e-003</b>	<b>0.3645</b>		<b>1,252.3147</b>	<b>1,252.3147</b>	<b>0.0294</b>	<b>0.0542</b>	<b>1,269.1910</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.5306	29.9811	41.6503	0.0804		1.2062	1.2062		1.1587	1.1587		7,631.0295	7,631.0295	1.4619		7,667.5777
<b>Total</b>	<b>3.5306</b>	<b>29.9811</b>	<b>41.6503</b>	<b>0.0804</b>		<b>1.2062</b>	<b>1.2062</b>		<b>1.1587</b>	<b>1.1587</b>		<b>7,631.0295</b>	<b>7,631.0295</b>	<b>1.4619</b>		<b>7,667.5777</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.3527	0.2173	2.8420	9.8700e-003	1.2773	6.0400e-003	1.2833	0.3387	5.5600e-003	0.3443		1,028.3870	1,028.3870	0.0211	0.0238	1,036.0095
<b>Total</b>	<b>0.3630</b>	<b>0.6261</b>	<b>2.9893</b>	<b>0.0117</b>	<b>1.3386</b>	<b>8.4200e-003</b>	<b>1.3470</b>	<b>0.3564</b>	<b>7.8400e-003</b>	<b>0.3642</b>		<b>1,222.8046</b>	<b>1,222.8046</b>	<b>0.0275</b>	<b>0.0520</b>	<b>1,238.9841</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.6 Stage 2 Bridge Piers Forms and Steel - 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	lb/day										lb/day					
Off-Road	3.5306	29.9811	41.6503	0.0804		1.2062	1.2062		1.1587	1.1587	0.0000	7,631.0295	7,631.0295	1.4619		7,667.5777
<b>Total</b>	<b>3.5306</b>	<b>29.9811</b>	<b>41.6503</b>	<b>0.0804</b>		<b>1.2062</b>	<b>1.2062</b>		<b>1.1587</b>	<b>1.1587</b>	<b>0.0000</b>	<b>7,631.0295</b>	<b>7,631.0295</b>	<b>1.4619</b>		<b>7,667.5777</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.3527	0.2173	2.8420	9.8700e-003	1.2773	6.0400e-003	1.2833	0.3387	5.5600e-003	0.3443		1,028.3870	1,028.3870	0.0211	0.0238	1,036.0095
<b>Total</b>	<b>0.3630</b>	<b>0.6261</b>	<b>2.9893</b>	<b>0.0117</b>	<b>1.3386</b>	<b>8.4200e-003</b>	<b>1.3470</b>	<b>0.3564</b>	<b>7.8400e-003</b>	<b>0.3642</b>		<b>1,222.8046</b>	<b>1,222.8046</b>	<b>0.0275</b>	<b>0.0520</b>	<b>1,238.9841</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.7 Stage 2 Bridge Piers Concrete - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0674	16.7987	20.1632	0.0461		0.6866	0.6866		0.6580	0.6580		4,416.5679	4,416.5679	0.8697		4,438.3092
<b>Total</b>	<b>2.0674</b>	<b>16.7987</b>	<b>20.1632</b>	<b>0.0461</b>		<b>0.6866</b>	<b>0.6866</b>		<b>0.6580</b>	<b>0.6580</b>		<b>4,416.5679</b>	<b>4,416.5679</b>	<b>0.8697</b>		<b>4,438.3092</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0200	1.2817	0.3602	5.5200e-003	0.1684	0.0107	0.1792	0.0462	0.0103	0.0564		613.5040	613.5040	0.0341	0.0977	643.4746
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.2067</b>	<b>1.7991</b>	<b>1.9284</b>	<b>0.0123</b>	<b>0.8683</b>	<b>0.0161</b>	<b>0.8845</b>	<b>0.2332</b>	<b>0.0153</b>	<b>0.2485</b>		<b>1,322.1152</b>	<b>1,322.1152</b>	<b>0.0510</b>	<b>0.1378</b>	<b>1,364.4539</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.7 Stage 2 Bridge Piers Concrete - 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	lb/day										lb/day					
Off-Road	2.0674	16.7987	20.1632	0.0461		0.6866	0.6866		0.6580	0.6580	0.0000	4,416.5679	4,416.5679	0.8697		4,438.3092
<b>Total</b>	<b>2.0674</b>	<b>16.7987</b>	<b>20.1632</b>	<b>0.0461</b>		<b>0.6866</b>	<b>0.6866</b>		<b>0.6580</b>	<b>0.6580</b>	<b>0.0000</b>	<b>4,416.5679</b>	<b>4,416.5679</b>	<b>0.8697</b>		<b>4,438.3092</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0200	1.2817	0.3602	5.5200e-003	0.1684	0.0107	0.1792	0.0462	0.0103	0.0564		613.5040	613.5040	0.0341	0.0977	643.4746
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.2067</b>	<b>1.7991</b>	<b>1.9284</b>	<b>0.0123</b>	<b>0.8683</b>	<b>0.0161</b>	<b>0.8845</b>	<b>0.2332</b>	<b>0.0153</b>	<b>0.2485</b>		<b>1,322.1152</b>	<b>1,322.1152</b>	<b>0.0510</b>	<b>0.1378</b>	<b>1,364.4539</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.8 Stage 2 Bridge Deck Forms and Steel - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2827	19.4850	23.4348	0.0443		0.7694	0.7694		0.7406	0.7406		4,164.9786	4,164.9786	0.6935		4,182.3163
<b>Total</b>	<b>2.2827</b>	<b>19.4850</b>	<b>23.4348</b>	<b>0.0443</b>		<b>0.7694</b>	<b>0.7694</b>		<b>0.7406</b>	<b>0.7406</b>		<b>4,164.9786</b>	<b>4,164.9786</b>	<b>0.6935</b>		<b>4,182.3163</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0354	2.2715	0.6383	9.7900e-003	0.2985	0.0190	0.3175	0.0818	0.0182	0.1000		1,087.3179	1,087.3179	0.0603	0.1732	1,140.4350
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.3527	0.2173	2.8420	9.8700e-003	1.2773	6.0400e-003	1.2833	0.3387	5.5600e-003	0.3443		1,028.3870	1,028.3870	0.0211	0.0238	1,036.0095
<b>Total</b>	<b>0.3985</b>	<b>2.8977</b>	<b>3.6276</b>	<b>0.0215</b>	<b>1.6371</b>	<b>0.0274</b>	<b>1.6645</b>	<b>0.4382</b>	<b>0.0260</b>	<b>0.4642</b>		<b>2,310.1225</b>	<b>2,310.1225</b>	<b>0.0878</b>	<b>0.2252</b>	<b>2,379.4190</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.8 Stage 2 Bridge Deck Forms and Steel - 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	lb/day										lb/day					
Off-Road	2.2827	19.4850	23.4348	0.0443		0.7694	0.7694		0.7406	0.7406	0.0000	4,164.9786	4,164.9786	0.6935		4,182.3163
<b>Total</b>	<b>2.2827</b>	<b>19.4850</b>	<b>23.4348</b>	<b>0.0443</b>		<b>0.7694</b>	<b>0.7694</b>		<b>0.7406</b>	<b>0.7406</b>	<b>0.0000</b>	<b>4,164.9786</b>	<b>4,164.9786</b>	<b>0.6935</b>		<b>4,182.3163</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0354	2.2715	0.6383	9.7900e-003	0.2985	0.0190	0.3175	0.0818	0.0182	0.1000		1,087.3179	1,087.3179	0.0603	0.1732	1,140.4350
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.3527	0.2173	2.8420	9.8700e-003	1.2773	6.0400e-003	1.2833	0.3387	5.5600e-003	0.3443		1,028.3870	1,028.3870	0.0211	0.0238	1,036.0095
<b>Total</b>	<b>0.3985</b>	<b>2.8977</b>	<b>3.6276</b>	<b>0.0215</b>	<b>1.6371</b>	<b>0.0274</b>	<b>1.6645</b>	<b>0.4382</b>	<b>0.0260</b>	<b>0.4642</b>		<b>2,310.1225</b>	<b>2,310.1225</b>	<b>0.0878</b>	<b>0.2252</b>	<b>2,379.4190</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.9 Stage 2 Night Delivery - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0747	10.5783	13.5707	0.0255		0.4156	0.4156		0.3976	0.3976		2,440.6688	2,440.6688	0.4324		2,451.4788
<b>Total</b>	<b>1.0747</b>	<b>10.5783</b>	<b>13.5707</b>	<b>0.0255</b>		<b>0.4156</b>	<b>0.4156</b>		<b>0.3976</b>	<b>0.3976</b>		<b>2,440.6688</b>	<b>2,440.6688</b>	<b>0.4324</b>		<b>2,451.4788</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.1867</b>	<b>0.5174</b>	<b>1.5683</b>	<b>6.7400e-003</b>	<b>0.6999</b>	<b>5.4000e-003</b>	<b>0.7053</b>	<b>0.1870</b>	<b>5.0600e-003</b>	<b>0.1921</b>		<b>708.6111</b>	<b>708.6111</b>	<b>0.0169</b>	<b>0.0401</b>	<b>720.9793</b>



Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.9 Stage 2 Night Delivery - 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	lb/day										lb/day					
Off-Road	1.0747	10.5783	13.5707	0.0255		0.4156	0.4156		0.3976	0.3976	0.0000	2,440.6688	2,440.6688	0.4324		2,451.4788
<b>Total</b>	<b>1.0747</b>	<b>10.5783</b>	<b>13.5707</b>	<b>0.0255</b>		<b>0.4156</b>	<b>0.4156</b>		<b>0.3976</b>	<b>0.3976</b>	<b>0.0000</b>	<b>2,440.6688</b>	<b>2,440.6688</b>	<b>0.4324</b>		<b>2,451.4788</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.1867</b>	<b>0.5174</b>	<b>1.5683</b>	<b>6.7400e-003</b>	<b>0.6999</b>	<b>5.4000e-003</b>	<b>0.7053</b>	<b>0.1870</b>	<b>5.0600e-003</b>	<b>0.1921</b>		<b>708.6111</b>	<b>708.6111</b>	<b>0.0169</b>	<b>0.0401</b>	<b>720.9793</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.10 Stage 2 Bridge Deck Concrete - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0486	16.9227	18.0122	0.0431		0.7158	0.7158		0.6738	0.6738		4,141.3649	4,141.3649	0.9824		4,165.9260
<b>Total</b>	<b>2.0486</b>	<b>16.9227</b>	<b>18.0122</b>	<b>0.0431</b>		<b>0.7158</b>	<b>0.7158</b>		<b>0.6738</b>	<b>0.6738</b>		<b>4,141.3649</b>	<b>4,141.3649</b>	<b>0.9824</b>		<b>4,165.9260</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0180	1.1535	0.3242	4.9700e-003	0.1516	9.6600e-003	0.1613	0.0416	9.2400e-003	0.0508		552.1536	552.1536	0.0306	0.0879	579.1271
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.2047</b>	<b>1.6710</b>	<b>1.8924</b>	<b>0.0117</b>	<b>0.8515</b>	<b>0.0151</b>	<b>0.8666</b>	<b>0.2286</b>	<b>0.0143</b>	<b>0.2429</b>		<b>1,260.7648</b>	<b>1,260.7648</b>	<b>0.0476</b>	<b>0.1280</b>	<b>1,300.1064</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.10 Stage 2 Bridge Deck Concrete - 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	lb/day										lb/day					
Off-Road	2.0486	16.9227	18.0122	0.0431		0.7158	0.7158		0.6738	0.6738	0.0000	4,141.3649	4,141.3649	0.9824		4,165.9260
<b>Total</b>	<b>2.0486</b>	<b>16.9227</b>	<b>18.0122</b>	<b>0.0431</b>		<b>0.7158</b>	<b>0.7158</b>		<b>0.6738</b>	<b>0.6738</b>	<b>0.0000</b>	<b>4,141.3649</b>	<b>4,141.3649</b>	<b>0.9824</b>		<b>4,165.9260</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0180	1.1535	0.3242	4.9700e-003	0.1516	9.6600e-003	0.1613	0.0416	9.2400e-003	0.0508		552.1536	552.1536	0.0306	0.0879	579.1271
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1764	0.1087	1.4210	4.9400e-003	0.6387	3.0200e-003	0.6417	0.1694	2.7800e-003	0.1721		514.1935	514.1935	0.0105	0.0119	518.0048
<b>Total</b>	<b>0.2047</b>	<b>1.6710</b>	<b>1.8924</b>	<b>0.0117</b>	<b>0.8515</b>	<b>0.0151</b>	<b>0.8666</b>	<b>0.2286</b>	<b>0.0143</b>	<b>0.2429</b>		<b>1,260.7648</b>	<b>1,260.7648</b>	<b>0.0476</b>	<b>0.1280</b>	<b>1,300.1064</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.11 Stage 2 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5897	5.6259	9.5187	0.0145		0.2634	0.2634		0.2423	0.2423		1,405.4284	1,405.4284	0.4545		1,416.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5897</b>	<b>5.6259</b>	<b>9.5187</b>	<b>0.0145</b>		<b>0.2634</b>	<b>0.2634</b>		<b>0.2423</b>	<b>0.2423</b>		<b>1,405.4284</b>	<b>1,405.4284</b>	<b>0.4545</b>		<b>1,416.7920</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0104	0.6655	0.1870	2.8700e-003	0.0875	5.5700e-003	0.0930	0.0240	5.3300e-003	0.0293		318.5502	318.5502	0.0177	0.0507	334.1118
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1411	0.0869	1.1368	3.9500e-003	0.5109	2.4100e-003	0.5133	0.1355	2.2200e-003	0.1377		411.3548	411.3548	8.4400e-003	9.5200e-003	414.4038
<b>Total</b>	<b>0.1618</b>	<b>1.1612</b>	<b>1.4711</b>	<b>8.6200e-003</b>	<b>0.6596</b>	<b>0.0104</b>	<b>0.6700</b>	<b>0.1771</b>	<b>9.8300e-003</b>	<b>0.1869</b>		<b>924.3226</b>	<b>924.3226</b>	<b>0.0325</b>	<b>0.0884</b>	<b>951.4901</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.11 Stage 2 Paving - 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	lb/day										lb/day					
Off-Road	0.5897	5.6259	9.5187	0.0145		0.2634	0.2634		0.2423	0.2423	0.0000	1,405.4284	1,405.4284	0.4545		1,416.7920
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5897</b>	<b>5.6259</b>	<b>9.5187</b>	<b>0.0145</b>		<b>0.2634</b>	<b>0.2634</b>		<b>0.2423</b>	<b>0.2423</b>	<b>0.0000</b>	<b>1,405.4284</b>	<b>1,405.4284</b>	<b>0.4545</b>		<b>1,416.7920</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0104	0.6655	0.1870	2.8700e-003	0.0875	5.5700e-003	0.0930	0.0240	5.3300e-003	0.0293		318.5502	318.5502	0.0177	0.0507	334.1118
Vendor	0.0103	0.4088	0.1473	1.8000e-003	0.0613	2.3800e-003	0.0636	0.0176	2.2800e-003	0.0199		194.4177	194.4177	6.3700e-003	0.0282	202.9745
Worker	0.1411	0.0869	1.1368	3.9500e-003	0.5109	2.4100e-003	0.5133	0.1355	2.2200e-003	0.1377		411.3548	411.3548	8.4400e-003	9.5200e-003	414.4038
<b>Total</b>	<b>0.1618</b>	<b>1.1612</b>	<b>1.4711</b>	<b>8.6200e-003</b>	<b>0.6596</b>	<b>0.0104</b>	<b>0.6700</b>	<b>0.1771</b>	<b>9.8300e-003</b>	<b>0.1869</b>		<b>924.3226</b>	<b>924.3226</b>	<b>0.0325</b>	<b>0.0884</b>	<b>951.4901</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.12 Stage 2 Pavement Marking - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7054	4.3934	5.5977	0.0172		0.1711	0.1711		0.1629	0.1629		1,654.9395	1,654.9395	0.4343		1,665.7981
<b>Total</b>	<b>21.5629</b>	<b>4.3934</b>	<b>5.5977</b>	<b>0.0172</b>		<b>0.1711</b>	<b>0.1711</b>		<b>0.1629</b>	<b>0.1629</b>		<b>1,654.9395</b>	<b>1,654.9395</b>	<b>0.4343</b>		<b>1,665.7981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0706	0.0435	0.5684	1.9700e-003	0.2555	1.2100e-003	0.2567	0.0678	1.1100e-003	0.0689		205.6774	205.6774	4.2200e-003	4.7600e-003	207.2019
<b>Total</b>	<b>0.0706</b>	<b>0.0435</b>	<b>0.5684</b>	<b>1.9700e-003</b>	<b>0.2555</b>	<b>1.2100e-003</b>	<b>0.2567</b>	<b>0.0678</b>	<b>1.1100e-003</b>	<b>0.0689</b>		<b>205.6774</b>	<b>205.6774</b>	<b>4.2200e-003</b>	<b>4.7600e-003</b>	<b>207.2019</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**3.12 Stage 2 Pavement Marking - 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	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7054	4.3934	5.5977	0.0172		0.1711	0.1711		0.1629	0.1629	0.0000	1,654.9395	1,654.9395	0.4343		1,665.7981
<b>Total</b>	<b>21.5629</b>	<b>4.3934</b>	<b>5.5977</b>	<b>0.0172</b>		<b>0.1711</b>	<b>0.1711</b>		<b>0.1629</b>	<b>0.1629</b>	<b>0.0000</b>	<b>1,654.9395</b>	<b>1,654.9395</b>	<b>0.4343</b>		<b>1,665.7981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0706	0.0435	0.5684	1.9700e-003	0.2555	1.2100e-003	0.2567	0.0678	1.1100e-003	0.0689		205.6774	205.6774	4.2200e-003	4.7600e-003	207.2019
<b>Total</b>	<b>0.0706</b>	<b>0.0435</b>	<b>0.5684</b>	<b>1.9700e-003</b>	<b>0.2555</b>	<b>1.2100e-003</b>	<b>0.2567</b>	<b>0.0678</b>	<b>1.1100e-003</b>	<b>0.0689</b>		<b>205.6774</b>	<b>205.6774</b>	<b>4.2200e-003</b>	<b>4.7600e-003</b>	<b>207.2019</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383



Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Unmitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 2 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

**Camino Del Mar Bridge Replacement Stage 3  
San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Truck = concrete pump truck.

Other Construction Equipment = bidwell concrete machine.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Truck = concrete pump truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = pavement striping truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Architectural Coating - Traffic marking VOC content limit per SDAPCD 67.0.1, effective January 1, 2022.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	3,000.00	4,500.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	200.00	10.00
tblConstructionPhase	NumDays	200.00	32.00
tblConstructionPhase	NumDays	200.00	11.00
tblConstructionPhase	NumDays	200.00	50.00
tblConstructionPhase	NumDays	200.00	27.00
tblConstructionPhase	NumDays	200.00	30.00
tblConstructionPhase	NumDays	200.00	4.00
tblConstructionPhase	NumDays	200.00	29.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	10.00	4.00
tblOffRoadEquipment	HorsePower	172.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00



Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
tblTripsAndVMT	HaulingTripNumber	0.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	HaulingTripNumber	0.00	512.00
tblTripsAndVMT	HaulingTripNumber	0.00	260.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	40.00
tblTripsAndVMT	WorkerTripNumber	4.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	30.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00

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

tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	100.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00
tbITripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2025	0.2514	2.0641	2.8362	6.1400e-003	0.0974	0.0811	0.1786	0.0261	0.0775	0.1036	0.0000	541.0954	541.0954	0.0917	6.9100e-003	545.4480
2026	0.0840	0.5946	0.7660	1.8400e-003	0.0389	0.0221	0.0610	0.0104	0.0213	0.0317	0.0000	164.4404	164.4404	0.0219	4.9000e-003	166.4460
<b>Maximum</b>	<b>0.2514</b>	<b>2.0641</b>	<b>2.8362</b>	<b>6.1400e-003</b>	<b>0.0974</b>	<b>0.0811</b>	<b>0.1786</b>	<b>0.0261</b>	<b>0.0775</b>	<b>0.1036</b>	<b>0.0000</b>	<b>541.0954</b>	<b>541.0954</b>	<b>0.0917</b>	<b>6.9100e-003</b>	<b>545.4480</b>

**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					
2025	0.2514	2.0641	2.8362	6.1400e-003	0.0974	0.0811	0.1786	0.0261	0.0775	0.1036	0.0000	541.0949	541.0949	0.0917	6.9100e-003	545.4474
2026	0.0840	0.5946	0.7660	1.8400e-003	0.0389	0.0221	0.0610	0.0104	0.0213	0.0317	0.0000	164.4403	164.4403	0.0219	4.9000e-003	166.4459
<b>Maximum</b>	<b>0.2514</b>	<b>2.0641</b>	<b>2.8362</b>	<b>6.1400e-003</b>	<b>0.0974</b>	<b>0.0811</b>	<b>0.1786</b>	<b>0.0261</b>	<b>0.0775</b>	<b>0.1036</b>	<b>0.0000</b>	<b>541.0949</b>	<b>541.0949</b>	<b>0.0917</b>	<b>6.9100e-003</b>	<b>545.4474</b>

Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	6-1-2025	8-31-2025	1.1162	1.1162
2	9-1-2025	11-30-2025	0.9554	0.9554
3	12-1-2025	2-28-2026	0.7403	0.7403
4	3-1-2026	5-31-2026	0.1745	0.1745
		Highest	1.1162	1.1162

**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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 3 Temporary Trestle	Building Construction	6/1/2025	6/13/2025	5	10	
2	Stage 3 Cofferdams for Demo	Building Construction	6/14/2025	7/29/2025	5	32	
3	Stage 3 Bridge Demolition	Demolition	7/30/2025	8/28/2025	5	22	

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

4	Stage 3 Cofferdams For Piers	Building Construction	8/29/2025	9/12/2025	5	11
5	Stage 3 Bridge Piers Forms and Steel	Building Construction	9/13/2025	11/21/2025	5	50
6	Stage 3 Bridge Piers Concrete	Building Construction	11/22/2025	12/30/2025	5	27
7	Stage 3 Bridge Deck Forms and Steel	Building Construction	1/1/2026	2/11/2026	5	30
8	Stage 3 Night Delivery	Building Construction	1/12/2026	1/15/2026	5	4
9	Stage 3 Bridge Deck Concrete	Building Construction	2/12/2026	3/24/2026	5	29
10	Stage 3 Paving	Paving	3/25/2026	3/30/2026	5	4
11	Stage 3 Pavement Marking	Architectural Coating	3/31/2026	3/31/2026	5	1

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 4,500 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 3 Temporary Trestle	Air Compressors	2	8.00	78	0.48
Stage 3 Temporary Trestle	Cranes	2	8.00	231	0.29
Stage 3 Temporary Trestle	Crawler Tractors	1	8.00	212	0.43
Stage 3 Temporary Trestle	Excavators	2	8.00	158	0.38
Stage 3 Temporary Trestle	Generator Sets	2	8.00	84	0.74
Stage 3 Temporary Trestle	Rough Terrain Forklifts	2	8.00	100	0.40
Stage 3 Temporary Trestle	Rubber Tired Loaders	1	8.00	203	0.36
Stage 3 Temporary Trestle	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 3 Temporary Trestle	Welders	1	8.00	46	0.45
Stage 3 Cofferdams for Demo	Air Compressors	2	8.00	78	0.48
Stage 3 Cofferdams for Demo	Cranes	3	8.00	231	0.29

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

Stage 3 Cofferdams for Demo	Excavators	2	8.00	158	0.38
Stage 3 Cofferdams for Demo	Generator Sets	2	8.00	84	0.74
Stage 3 Cofferdams for Demo	Pumps	3	8.00	84	0.74
Stage 3 Cofferdams for Demo	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 3 Cofferdams for Demo	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 3 Cofferdams for Demo	Welders	1	8.00	46	0.45
Stage 3 Bridge Demolition	Air Compressors	2	8.00	78	0.48
Stage 3 Bridge Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stage 3 Bridge Demolition	Cranes	2	8.00	231	0.29
Stage 3 Bridge Demolition	Excavators	2	8.00	158	0.38
Stage 3 Bridge Demolition	Generator Sets	2	8.00	84	0.74
Stage 3 Bridge Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stage 3 Cofferdams For Piers	Air Compressors	2	8.00	78	0.48
Stage 3 Cofferdams For Piers	Cranes	3	8.00	231	0.29
Stage 3 Cofferdams For Piers	Excavators	2	8.00	158	0.38
Stage 3 Cofferdams For Piers	Generator Sets	2	8.00	84	0.74
Stage 3 Cofferdams For Piers	Pumps	3	8.00	84	0.74
Stage 3 Cofferdams For Piers	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 3 Cofferdams For Piers	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Stage 3 Cofferdams For Piers	Welders	1	8.00	46	0.45
Stage 3 Bridge Piers Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 3 Bridge Piers Forms and Steel	Bore/Drill Rigs	1	8.00	221	0.50
Stage 3 Bridge Piers Forms and Steel	Cranes	2	8.00	231	0.29
Stage 3 Bridge Piers Forms and Steel	Excavators	2	8.00	158	0.38
Stage 3 Bridge Piers Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 3 Bridge Piers Forms and Steel	Rough Terrain Forklifts	2	8.00	100	0.40
Stage 3 Bridge Piers Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Bridge Piers Forms and Steel	Welders	2	8.00	46	0.45
Stage 3 Bridge Piers Concrete	Air Compressors	2	8.00	78	0.48

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

Stage 3 Bridge Piers Concrete	Cranes	2	8.00	231	0.29
Stage 3 Bridge Piers Concrete	Generator Sets	2	8.00	84	0.74
Stage 3 Bridge Piers Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 3 Bridge Piers Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Bridge Deck Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 3 Bridge Deck Forms and Steel	Cranes	2	8.00	231	0.29
Stage 3 Bridge Deck Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 3 Bridge Deck Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 3 Bridge Deck Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Bridge Deck Forms and Steel	Welders	2	8.00	46	0.45
Stage 3 Night Delivery	Cranes	1	8.00	231	0.29
Stage 3 Night Delivery	Generator Sets	2	8.00	84	0.74
Stage 3 Night Delivery	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 3 Night Delivery	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Bridge Deck Concrete	Air Compressors	2	8.00	78	0.48
Stage 3 Bridge Deck Concrete	Generator Sets	2	8.00	84	0.74
Stage 3 Bridge Deck Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 3 Bridge Deck Concrete	Other Construction Equipment	1	8.00	50	0.42
Stage 3 Bridge Deck Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Paving	Pavers	1	8.00	130	0.42
Stage 3 Paving	Paving Equipment	1	8.00	132	0.36
Stage 3 Paving	Rollers	1	8.00	80	0.38
Stage 3 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 3 Pavement Marking	Air Compressors	1	8.00	78	0.48
Stage 3 Pavement Marking	Off-Highway Trucks	1	8.00	402	0.38

**Trips and VMT**



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

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
Stage 3 Temporary Trestle	15	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Cofferdams for Demo	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Bridge Demolition	12	100.00	10.00	500.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Cofferdams for Piers	16	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Bridge Piers Forms and Steel	14	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Bridge Piers Concrete	8	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Bridge Deck Forms and Steel	10	100.00	10.00	512.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Night Delivery	5	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Bridge Deck Concrete	7	50.00	10.00	260.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Paving	4	40.00	10.00	20.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 3 Pavement Marking	2	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 3 Temporary Trestle - 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	0.0161	0.1451	0.1820	3.6000e-004		5.7800e-003	5.7800e-003		5.4600e-003	5.4600e-003	0.0000	31.5602	31.5602	7.4600e-003	0.0000	31.7467
<b>Total</b>	<b>0.0161</b>	<b>0.1451</b>	<b>0.1820</b>	<b>3.6000e-004</b>		<b>5.7800e-003</b>	<b>5.7800e-003</b>		<b>5.4600e-003</b>	<b>5.4600e-003</b>	<b>0.0000</b>	<b>31.5602</b>	<b>31.5602</b>	<b>7.4600e-003</b>	<b>0.0000</b>	<b>31.7467</b>

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

**3.2 Stage 3 Temporary Trestle - 2025**

**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	5.0000e-005	2.0300e-003	7.2000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8810	0.8810	3.0000e-005	1.3000e-004	0.9198
Worker	1.5800e-003	1.0700e-003	0.0143	5.0000e-005	6.2300e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6800e-003	0.0000	4.7063	4.7063	9.0000e-005	1.1000e-004	4.7404
<b>Total</b>	<b>1.6300e-003</b>	<b>3.1000e-003</b>	<b>0.0150</b>	<b>6.0000e-005</b>	<b>6.5300e-003</b>	<b>4.0000e-005</b>	<b>6.5700e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>5.5873</b>	<b>5.5873</b>	<b>1.2000e-004</b>	<b>2.4000e-004</b>	<b>5.6602</b>

**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	0.0161	0.1451	0.1820	3.6000e-004		5.7800e-003	5.7800e-003		5.4600e-003	5.4600e-003	0.0000	31.5602	31.5602	7.4600e-003	0.0000	31.7466
<b>Total</b>	<b>0.0161</b>	<b>0.1451</b>	<b>0.1820</b>	<b>3.6000e-004</b>		<b>5.7800e-003</b>	<b>5.7800e-003</b>		<b>5.4600e-003</b>	<b>5.4600e-003</b>	<b>0.0000</b>	<b>31.5602</b>	<b>31.5602</b>	<b>7.4600e-003</b>	<b>0.0000</b>	<b>31.7466</b>

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

**3.2 Stage 3 Temporary Trestle - 2025**

**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	5.0000e-005	2.0300e-003	7.2000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8810	0.8810	3.0000e-005	1.3000e-004	0.9198
Worker	1.5800e-003	1.0700e-003	0.0143	5.0000e-005	6.2300e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6800e-003	0.0000	4.7063	4.7063	9.0000e-005	1.1000e-004	4.7404
<b>Total</b>	<b>1.6300e-003</b>	<b>3.1000e-003</b>	<b>0.0150</b>	<b>6.0000e-005</b>	<b>6.5300e-003</b>	<b>4.0000e-005</b>	<b>6.5700e-003</b>	<b>1.7500e-003</b>	<b>4.0000e-005</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>5.5873</b>	<b>5.5873</b>	<b>1.2000e-004</b>	<b>2.4000e-004</b>	<b>5.6602</b>

**3.3 Stage 3 Cofferdams for Demo - 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	0.0592	0.5179	0.6946	1.2900e-003		0.0214	0.0214		0.0206	0.0206	0.0000	111.5933	111.5933	0.0196	0.0000	112.0838
<b>Total</b>	<b>0.0592</b>	<b>0.5179</b>	<b>0.6946</b>	<b>1.2900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>111.5933</b>	<b>111.5933</b>	<b>0.0196</b>	<b>0.0000</b>	<b>112.0838</b>

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

**3.3 Stage 3 Coffers Dams for Demo - 2025**

**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	1.7000e-004	6.4900e-003	2.3200e-003	3.0000e-005	9.6000e-004	4.0000e-005	1.0000e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	2.8193	2.8193	9.0000e-005	4.1000e-004	2.9434
Worker	5.0600e-003	3.4100e-003	0.0457	1.6000e-004	0.0200	1.0000e-004	0.0201	5.3000e-003	9.0000e-005	5.3900e-003	0.0000	15.0601	15.0601	3.0000e-004	3.4000e-004	15.1694
<b>Total</b>	<b>5.2300e-003</b>	<b>9.9000e-003</b>	<b>0.0480</b>	<b>1.9000e-004</b>	<b>0.0209</b>	<b>1.4000e-004</b>	<b>0.0211</b>	<b>5.5800e-003</b>	<b>1.3000e-004</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>17.8794</b>	<b>17.8794</b>	<b>3.9000e-004</b>	<b>7.5000e-004</b>	<b>18.1128</b>

**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	0.0592	0.5179	0.6946	1.2900e-003		0.0214	0.0214		0.0206	0.0206	0.0000	111.5932	111.5932	0.0196	0.0000	112.0836
<b>Total</b>	<b>0.0592</b>	<b>0.5179</b>	<b>0.6946</b>	<b>1.2900e-003</b>		<b>0.0214</b>	<b>0.0214</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>111.5932</b>	<b>111.5932</b>	<b>0.0196</b>	<b>0.0000</b>	<b>112.0836</b>

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

**3.3 Stage 3 Cofferdams for Demo - 2025**

**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	1.7000e-004	6.4900e-003	2.3200e-003	3.0000e-005	9.6000e-004	4.0000e-005	1.0000e-003	2.8000e-004	4.0000e-005	3.1000e-004	0.0000	2.8193	2.8193	9.0000e-005	4.1000e-004	2.9434
Worker	5.0600e-003	3.4100e-003	0.0457	1.6000e-004	0.0200	1.0000e-004	0.0201	5.3000e-003	9.0000e-005	5.3900e-003	0.0000	15.0601	15.0601	3.0000e-004	3.4000e-004	15.1694
<b>Total</b>	<b>5.2300e-003</b>	<b>9.9000e-003</b>	<b>0.0480</b>	<b>1.9000e-004</b>	<b>0.0209</b>	<b>1.4000e-004</b>	<b>0.0211</b>	<b>5.5800e-003</b>	<b>1.3000e-004</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>17.8794</b>	<b>17.8794</b>	<b>3.9000e-004</b>	<b>7.5000e-004</b>	<b>18.1128</b>

**3.4 Stage 3 Bridge Demolition - 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	0.0290	0.2519	0.3572	6.4000e-004		0.0107	0.0107		0.0102	0.0102	0.0000	56.0199	56.0199	0.0109	0.0000	56.2921
<b>Total</b>	<b>0.0290</b>	<b>0.2519</b>	<b>0.3572</b>	<b>6.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0102</b>	<b>0.0102</b>	<b>0.0000</b>	<b>56.0199</b>	<b>56.0199</b>	<b>0.0109</b>	<b>0.0000</b>	<b>56.2921</b>

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

**3.4 Stage 3 Bridge Demolition - 2025**

**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	5.4000e-004	0.0332	9.2800e-003	1.4000e-004	4.2800e-003	2.8000e-004	4.5600e-003	1.1800e-003	2.7000e-004	1.4400e-003	0.0000	14.4408	14.4408	8.0000e-004	2.3000e-003	15.1463
Vendor	1.2000e-004	4.4600e-003	1.5900e-003	2.0000e-005	6.6000e-004	3.0000e-005	6.9000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	1.9383	1.9383	6.0000e-005	2.8000e-004	2.0236
Worker	3.4800e-003	2.3500e-003	0.0314	1.1000e-004	0.0137	7.0000e-005	0.0138	3.6400e-003	6.0000e-005	3.7000e-003	0.0000	10.3538	10.3538	2.1000e-004	2.3000e-004	10.4290
<b>Total</b>	<b>4.1400e-003</b>	<b>0.0400</b>	<b>0.0423</b>	<b>2.7000e-004</b>	<b>0.0187</b>	<b>3.8000e-004</b>	<b>0.0190</b>	<b>5.0100e-003</b>	<b>3.6000e-004</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>26.7328</b>	<b>26.7328</b>	<b>1.0700e-003</b>	<b>2.8100e-003</b>	<b>27.5988</b>

**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	0.0290	0.2519	0.3572	6.4000e-004		0.0107	0.0107		0.0102	0.0102	0.0000	56.0198	56.0198	0.0109	0.0000	56.2921
<b>Total</b>	<b>0.0290</b>	<b>0.2519</b>	<b>0.3572</b>	<b>6.4000e-004</b>		<b>0.0107</b>	<b>0.0107</b>		<b>0.0102</b>	<b>0.0102</b>	<b>0.0000</b>	<b>56.0198</b>	<b>56.0198</b>	<b>0.0109</b>	<b>0.0000</b>	<b>56.2921</b>

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**3.4 Stage 3 Bridge Demolition - 2025**

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	5.4000e-004	0.0332	9.2800e-003	1.4000e-004	4.2800e-003	2.8000e-004	4.5600e-003	1.1800e-003	2.7000e-004	1.4400e-003	0.0000	14.4408	14.4408	8.0000e-004	2.3000e-003	15.1463
Vendor	1.2000e-004	4.4600e-003	1.5900e-003	2.0000e-005	6.6000e-004	3.0000e-005	6.9000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	1.9383	1.9383	6.0000e-005	2.8000e-004	2.0236
Worker	3.4800e-003	2.3500e-003	0.0314	1.1000e-004	0.0137	7.0000e-005	0.0138	3.6400e-003	6.0000e-005	3.7000e-003	0.0000	10.3538	10.3538	2.1000e-004	2.3000e-004	10.4290
<b>Total</b>	<b>4.1400e-003</b>	<b>0.0400</b>	<b>0.0423</b>	<b>2.7000e-004</b>	<b>0.0187</b>	<b>3.8000e-004</b>	<b>0.0190</b>	<b>5.0100e-003</b>	<b>3.6000e-004</b>	<b>5.3600e-003</b>	<b>0.0000</b>	<b>26.7328</b>	<b>26.7328</b>	<b>1.0700e-003</b>	<b>2.8100e-003</b>	<b>27.5988</b>

**3.5 Stage 3 Cofferdams For Piers - 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	0.0204	0.1780	0.2388	4.4000e-004		7.3700e-003	7.3700e-003		7.0700e-003	7.0700e-003	0.0000	38.3602	38.3602	6.7400e-003	0.0000	38.5288
<b>Total</b>	<b>0.0204</b>	<b>0.1780</b>	<b>0.2388</b>	<b>4.4000e-004</b>		<b>7.3700e-003</b>	<b>7.3700e-003</b>		<b>7.0700e-003</b>	<b>7.0700e-003</b>	<b>0.0000</b>	<b>38.3602</b>	<b>38.3602</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>38.5288</b>

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

**3.5 Stage 3 Cofferdams For Piers - 2025**

**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	6.0000e-005	2.2300e-003	8.0000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9691	0.9691	3.0000e-005	1.4000e-004	1.0118
Worker	1.7400e-003	1.1700e-003	0.0157	5.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8200e-003	3.0000e-005	1.8500e-003	0.0000	5.1769	5.1769	1.0000e-004	1.2000e-004	5.2145
<b>Total</b>	<b>1.8000e-003</b>	<b>3.4000e-003</b>	<b>0.0165</b>	<b>6.0000e-005</b>	<b>7.1900e-003</b>	<b>4.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9200e-003</b>	<b>4.0000e-005</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1460</b>	<b>6.1460</b>	<b>1.3000e-004</b>	<b>2.6000e-004</b>	<b>6.2263</b>

**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	0.0204	0.1780	0.2388	4.4000e-004		7.3700e-003	7.3700e-003		7.0700e-003	7.0700e-003	0.0000	38.3602	38.3602	6.7400e-003	0.0000	38.5288
<b>Total</b>	<b>0.0204</b>	<b>0.1780</b>	<b>0.2388</b>	<b>4.4000e-004</b>		<b>7.3700e-003</b>	<b>7.3700e-003</b>		<b>7.0700e-003</b>	<b>7.0700e-003</b>	<b>0.0000</b>	<b>38.3602</b>	<b>38.3602</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>38.5288</b>



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

**3.5 Stage 3 Cofferdams For Piers - 2025**

**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	6.0000e-005	2.2300e-003	8.0000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9691	0.9691	3.0000e-005	1.4000e-004	1.0118
Worker	1.7400e-003	1.1700e-003	0.0157	5.0000e-005	6.8600e-003	3.0000e-005	6.8900e-003	1.8200e-003	3.0000e-005	1.8500e-003	0.0000	5.1769	5.1769	1.0000e-004	1.2000e-004	5.2145
<b>Total</b>	<b>1.8000e-003</b>	<b>3.4000e-003</b>	<b>0.0165</b>	<b>6.0000e-005</b>	<b>7.1900e-003</b>	<b>4.0000e-005</b>	<b>7.2300e-003</b>	<b>1.9200e-003</b>	<b>4.0000e-005</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>6.1460</b>	<b>6.1460</b>	<b>1.3000e-004</b>	<b>2.6000e-004</b>	<b>6.2263</b>

**3.6 Stage 3 Bridge Piers Forms and Steel - 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	0.0731	0.6270	0.8569	1.6900e-003		0.0247	0.0247		0.0235	0.0235	0.0000	145.5265	145.5265	0.0322	0.0000	146.3327
<b>Total</b>	<b>0.0731</b>	<b>0.6270</b>	<b>0.8569</b>	<b>1.6900e-003</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0235</b>	<b>0.0235</b>	<b>0.0000</b>	<b>145.5265</b>	<b>145.5265</b>	<b>0.0322</b>	<b>0.0000</b>	<b>146.3327</b>

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

**3.6 Stage 3 Bridge Piers Forms and Steel - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	0.0102	3.6200e-003	4.0000e-005	1.5000e-003	6.0000e-005	1.5600e-003	4.3000e-004	6.0000e-005	4.9000e-004	0.0000	4.4051	4.4051	1.5000e-004	6.4000e-004	4.5990
Worker	7.9000e-003	5.3300e-003	0.0714	2.5000e-004	0.0312	1.5000e-004	0.0313	8.2800e-003	1.4000e-004	8.4200e-003	0.0000	23.5314	23.5314	4.7000e-004	5.3000e-004	23.7022
<b>Total</b>	<b>8.1600e-003</b>	<b>0.0155</b>	<b>0.0750</b>	<b>2.9000e-004</b>	<b>0.0327</b>	<b>2.1000e-004</b>	<b>0.0329</b>	<b>8.7100e-003</b>	<b>2.0000e-004</b>	<b>8.9100e-003</b>	<b>0.0000</b>	<b>27.9365</b>	<b>27.9365</b>	<b>6.2000e-004</b>	<b>1.1700e-003</b>	<b>28.3012</b>

**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	0.0731	0.6270	0.8569	1.6900e-003		0.0247	0.0247		0.0235	0.0235	0.0000	145.5264	145.5264	0.0322	0.0000	146.3325
<b>Total</b>	<b>0.0731</b>	<b>0.6270</b>	<b>0.8569</b>	<b>1.6900e-003</b>		<b>0.0247</b>	<b>0.0247</b>		<b>0.0235</b>	<b>0.0235</b>	<b>0.0000</b>	<b>145.5264</b>	<b>145.5264</b>	<b>0.0322</b>	<b>0.0000</b>	<b>146.3325</b>

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

**3.6 Stage 3 Bridge Piers Forms and Steel - 2025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6000e-004	0.0102	3.6200e-003	4.0000e-005	1.5000e-003	6.0000e-005	1.5600e-003	4.3000e-004	6.0000e-005	4.9000e-004	0.0000	4.4051	4.4051	1.5000e-004	6.4000e-004	4.5990
Worker	7.9000e-003	5.3300e-003	0.0714	2.5000e-004	0.0312	1.5000e-004	0.0313	8.2800e-003	1.4000e-004	8.4200e-003	0.0000	23.5314	23.5314	4.7000e-004	5.3000e-004	23.7022
<b>Total</b>	<b>8.1600e-003</b>	<b>0.0155</b>	<b>0.0750</b>	<b>2.9000e-004</b>	<b>0.0327</b>	<b>2.1000e-004</b>	<b>0.0329</b>	<b>8.7100e-003</b>	<b>2.0000e-004</b>	<b>8.9100e-003</b>	<b>0.0000</b>	<b>27.9365</b>	<b>27.9365</b>	<b>6.2000e-004</b>	<b>1.1700e-003</b>	<b>28.3012</b>

**3.7 Stage 3 Bridge Piers Concrete - 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	0.0300	0.2482	0.2839	6.6000e-004		0.0102	0.0102		9.7200e-003	9.7200e-003	0.0000	57.5117	57.5117	0.0118	0.0000	57.8056
<b>Total</b>	<b>0.0300</b>	<b>0.2482</b>	<b>0.2839</b>	<b>6.6000e-004</b>		<b>0.0102</b>	<b>0.0102</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>57.5117</b>	<b>57.5117</b>	<b>0.0118</b>	<b>0.0000</b>	<b>57.8056</b>

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

**3.7 Stage 3 Bridge Piers Concrete - 2025**

**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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.4000e-004	5.4800e-003	1.9500e-003	2.0000e-005	8.1000e-004	3.0000e-005	8.4000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.3788	2.3788	8.0000e-005	3.4000e-004	2.4835
Worker	2.1300e-003	1.4400e-003	0.0193	7.0000e-005	8.4200e-003	4.0000e-005	8.4600e-003	2.2400e-003	4.0000e-005	2.2700e-003	0.0000	6.3535	6.3535	1.3000e-004	1.4000e-004	6.3996
<b>Total</b>	<b>2.5500e-003</b>	<b>0.0242</b>	<b>0.0261</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>2.1000e-004</b>	<b>0.0117</b>	<b>3.0800e-003</b>	<b>2.1000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>16.2415</b>	<b>16.2415</b>	<b>6.3000e-004</b>	<b>1.6800e-003</b>	<b>16.7591</b>

**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	0.0300	0.2482	0.2839	6.6000e-004		0.0102	0.0102		9.7200e-003	9.7200e-003	0.0000	57.5116	57.5116	0.0118	0.0000	57.8055
<b>Total</b>	<b>0.0300</b>	<b>0.2482</b>	<b>0.2839</b>	<b>6.6000e-004</b>		<b>0.0102</b>	<b>0.0102</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>57.5116</b>	<b>57.5116</b>	<b>0.0118</b>	<b>0.0000</b>	<b>57.8055</b>

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

**3.7 Stage 3 Bridge Piers Concrete - 2025**

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	2.8000e-004	0.0173	4.8300e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.5092	7.5092	4.2000e-004	1.2000e-003	7.8761
Vendor	1.4000e-004	5.4800e-003	1.9500e-003	2.0000e-005	8.1000e-004	3.0000e-005	8.4000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.3788	2.3788	8.0000e-005	3.4000e-004	2.4835
Worker	2.1300e-003	1.4400e-003	0.0193	7.0000e-005	8.4200e-003	4.0000e-005	8.4600e-003	2.2400e-003	4.0000e-005	2.2700e-003	0.0000	6.3535	6.3535	1.3000e-004	1.4000e-004	6.3996
<b>Total</b>	<b>2.5500e-003</b>	<b>0.0242</b>	<b>0.0261</b>	<b>1.6000e-004</b>	<b>0.0115</b>	<b>2.1000e-004</b>	<b>0.0117</b>	<b>3.0800e-003</b>	<b>2.1000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>16.2415</b>	<b>16.2415</b>	<b>6.3000e-004</b>	<b>1.6800e-003</b>	<b>16.7591</b>

**3.8 Stage 3 Bridge Deck Forms and Steel - 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	0.0342	0.2923	0.3515	6.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	56.6761	56.6761	9.4400e-003	0.0000	56.9120
<b>Total</b>	<b>0.0342</b>	<b>0.2923</b>	<b>0.3515</b>	<b>6.6000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>56.6761</b>	<b>56.6761</b>	<b>9.4400e-003</b>	<b>0.0000</b>	<b>56.9120</b>

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

**3.8 Stage 3 Bridge Deck Forms and Steel - 2026**

**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	5.4000e-004	0.0335	9.6300e-003	1.4000e-004	4.3900e-003	2.8000e-004	4.6700e-003	1.2000e-003	2.7000e-004	1.4700e-003	0.0000	14.4787	14.4787	8.5000e-004	2.3100e-003	15.1877
Vendor	1.5000e-004	6.0200e-003	2.1400e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.5926	2.5926	9.0000e-005	3.8000e-004	2.7067
Worker	4.4900e-003	2.9100e-003	0.0404	1.4000e-004	0.0187	9.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0500e-003	0.0000	13.7897	13.7897	2.6000e-004	3.0000e-004	13.8862
<b>Total</b>	<b>5.1800e-003</b>	<b>0.0424</b>	<b>0.0522</b>	<b>3.1000e-004</b>	<b>0.0240</b>	<b>4.1000e-004</b>	<b>0.0244</b>	<b>6.4300e-003</b>	<b>3.8000e-004</b>	<b>6.8100e-003</b>	<b>0.0000</b>	<b>30.8611</b>	<b>30.8611</b>	<b>1.2000e-003</b>	<b>2.9900e-003</b>	<b>31.7806</b>

**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	0.0342	0.2923	0.3515	6.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	56.6760	56.6760	9.4400e-003	0.0000	56.9119
<b>Total</b>	<b>0.0342</b>	<b>0.2923</b>	<b>0.3515</b>	<b>6.6000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0111</b>	<b>0.0111</b>	<b>0.0000</b>	<b>56.6760</b>	<b>56.6760</b>	<b>9.4400e-003</b>	<b>0.0000</b>	<b>56.9119</b>

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

**3.8 Stage 3 Bridge Deck Forms and Steel - 2026**

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	5.4000e-004	0.0335	9.6300e-003	1.4000e-004	4.3900e-003	2.8000e-004	4.6700e-003	1.2000e-003	2.7000e-004	1.4700e-003	0.0000	14.4787	14.4787	8.5000e-004	2.3100e-003	15.1877
Vendor	1.5000e-004	6.0200e-003	2.1400e-003	3.0000e-005	9.0000e-004	4.0000e-005	9.4000e-004	2.6000e-004	3.0000e-005	2.9000e-004	0.0000	2.5926	2.5926	9.0000e-005	3.8000e-004	2.7067
Worker	4.4900e-003	2.9100e-003	0.0404	1.4000e-004	0.0187	9.0000e-005	0.0188	4.9700e-003	8.0000e-005	5.0500e-003	0.0000	13.7897	13.7897	2.6000e-004	3.0000e-004	13.8862
<b>Total</b>	<b>5.1800e-003</b>	<b>0.0424</b>	<b>0.0522</b>	<b>3.1000e-004</b>	<b>0.0240</b>	<b>4.1000e-004</b>	<b>0.0244</b>	<b>6.4300e-003</b>	<b>3.8000e-004</b>	<b>6.8100e-003</b>	<b>0.0000</b>	<b>30.8611</b>	<b>30.8611</b>	<b>1.2000e-003</b>	<b>2.9900e-003</b>	<b>31.7806</b>

**3.9 Stage 3 Night Delivery - 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	2.1500e-003	0.0212	0.0271	5.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	4.4283	4.4283	7.8000e-004	0.0000	4.4479
<b>Total</b>	<b>2.1500e-003</b>	<b>0.0212</b>	<b>0.0271</b>	<b>5.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>4.4283</b>	<b>4.4283</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>4.4479</b>

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

**3.9 Stage 3 Night Delivery - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.0000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3457	0.3457	1.0000e-005	5.0000e-005	0.3609
Worker	3.0000e-004	1.9000e-004	2.6900e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9193	0.9193	2.0000e-005	2.0000e-005	0.9258
<b>Total</b>	<b>3.2000e-004</b>	<b>9.9000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.2650</b>	<b>1.2650</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.2867</b>

**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	2.1500e-003	0.0212	0.0271	5.0000e-005		8.3000e-004	8.3000e-004		8.0000e-004	8.0000e-004	0.0000	4.4283	4.4283	7.8000e-004	0.0000	4.4479
<b>Total</b>	<b>2.1500e-003</b>	<b>0.0212</b>	<b>0.0271</b>	<b>5.0000e-005</b>		<b>8.3000e-004</b>	<b>8.3000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>4.4283</b>	<b>4.4283</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>4.4479</b>



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

**3.9 Stage 3 Night Delivery - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.0000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3457	0.3457	1.0000e-005	5.0000e-005	0.3609
Worker	3.0000e-004	1.9000e-004	2.6900e-003	1.0000e-005	1.2500e-003	1.0000e-005	1.2500e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	0.9193	0.9193	2.0000e-005	2.0000e-005	0.9258
<b>Total</b>	<b>3.2000e-004</b>	<b>9.9000e-004</b>	<b>2.9800e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>1.0000e-005</b>	<b>1.3700e-003</b>	<b>3.6000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.2650</b>	<b>1.2650</b>	<b>3.0000e-005</b>	<b>7.0000e-005</b>	<b>1.2867</b>

**3.10 Stage 3 Bridge Deck Concrete - 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	0.0272	0.1978	0.2808	5.7000e-004		8.4700e-003	8.4700e-003		8.1700e-003	8.1700e-003	0.0000	49.6470	49.6470	8.7100e-003	0.0000	49.8647
<b>Total</b>	<b>0.0272</b>	<b>0.1978</b>	<b>0.2808</b>	<b>5.7000e-004</b>		<b>8.4700e-003</b>	<b>8.4700e-003</b>		<b>8.1700e-003</b>	<b>8.1700e-003</b>	<b>0.0000</b>	<b>49.6470</b>	<b>49.6470</b>	<b>8.7100e-003</b>	<b>0.0000</b>	<b>49.8647</b>

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

**3.10 Stage 3 Bridge Deck Concrete - 2026**

**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	2.8000e-004	0.0170	4.8900e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.3525	7.3525	4.3000e-004	1.1700e-003	7.7125
Vendor	1.5000e-004	5.8200e-003	2.0700e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.1000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5062	2.5062	9.0000e-005	3.6000e-004	2.6165
Worker	2.1700e-003	1.4100e-003	0.0195	7.0000e-005	9.0400e-003	4.0000e-005	9.0800e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	6.6650	6.6650	1.2000e-004	1.5000e-004	6.7117
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0242</b>	<b>0.0265</b>	<b>1.7000e-004</b>	<b>0.0121</b>	<b>2.1000e-004</b>	<b>0.0124</b>	<b>3.2600e-003</b>	<b>2.1000e-004</b>	<b>3.4700e-003</b>	<b>0.0000</b>	<b>16.5237</b>	<b>16.5237</b>	<b>6.4000e-004</b>	<b>1.6800e-003</b>	<b>17.0407</b>

**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	0.0272	0.1978	0.2808	5.7000e-004		8.4700e-003	8.4700e-003		8.1700e-003	8.1700e-003	0.0000	49.6470	49.6470	8.7100e-003	0.0000	49.8647
<b>Total</b>	<b>0.0272</b>	<b>0.1978</b>	<b>0.2808</b>	<b>5.7000e-004</b>		<b>8.4700e-003</b>	<b>8.4700e-003</b>		<b>8.1700e-003</b>	<b>8.1700e-003</b>	<b>0.0000</b>	<b>49.6470</b>	<b>49.6470</b>	<b>8.7100e-003</b>	<b>0.0000</b>	<b>49.8647</b>

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

**3.10 Stage 3 Bridge Deck Concrete - 2026**

**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	2.8000e-004	0.0170	4.8900e-003	7.0000e-005	2.2300e-003	1.4000e-004	2.3700e-003	6.1000e-004	1.4000e-004	7.5000e-004	0.0000	7.3525	7.3525	4.3000e-004	1.1700e-003	7.7125
Vendor	1.5000e-004	5.8200e-003	2.0700e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.1000e-004	2.5000e-004	3.0000e-005	2.8000e-004	0.0000	2.5062	2.5062	9.0000e-005	3.6000e-004	2.6165
Worker	2.1700e-003	1.4100e-003	0.0195	7.0000e-005	9.0400e-003	4.0000e-005	9.0800e-003	2.4000e-003	4.0000e-005	2.4400e-003	0.0000	6.6650	6.6650	1.2000e-004	1.5000e-004	6.7117
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0242</b>	<b>0.0265</b>	<b>1.7000e-004</b>	<b>0.0121</b>	<b>2.1000e-004</b>	<b>0.0124</b>	<b>3.2600e-003</b>	<b>2.1000e-004</b>	<b>3.4700e-003</b>	<b>0.0000</b>	<b>16.5237</b>	<b>16.5237</b>	<b>6.4000e-004</b>	<b>1.6800e-003</b>	<b>17.0407</b>

**3.11 Stage 3 Paving - 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	1.1800e-003	0.0113	0.0190	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.5500	2.5500	8.2000e-004	0.0000	2.5706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1800e-003</b>	<b>0.0113</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5500</b>	<b>2.5500</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5706</b>

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

**3.11 Stage 3 Paving - 2026**

**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	2.0000e-005	1.3100e-003	3.8000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5656	0.5656	3.0000e-005	9.0000e-005	0.5933
Vendor	2.0000e-005	8.0000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3457	0.3457	1.0000e-005	5.0000e-005	0.3609
Worker	2.4000e-004	1.6000e-004	2.1500e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7355	0.7355	1.0000e-005	2.0000e-005	0.7406
<b>Total</b>	<b>2.8000e-004</b>	<b>2.2700e-003</b>	<b>2.8200e-003</b>	<b>2.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6467</b>	<b>1.6467</b>	<b>5.0000e-005</b>	<b>1.6000e-004</b>	<b>1.6948</b>

**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	1.1800e-003	0.0113	0.0190	3.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	2.5500	2.5500	8.2000e-004	0.0000	2.5706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.1800e-003</b>	<b>0.0113</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5500</b>	<b>2.5500</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5706</b>

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

**3.11 Stage 3 Paving - 2026**

**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	2.0000e-005	1.3100e-003	3.8000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5656	0.5656	3.0000e-005	9.0000e-005	0.5933
Vendor	2.0000e-005	8.0000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.3457	0.3457	1.0000e-005	5.0000e-005	0.3609
Worker	2.4000e-004	1.6000e-004	2.1500e-003	1.0000e-005	1.0000e-003	0.0000	1.0000e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.7355	0.7355	1.0000e-005	2.0000e-005	0.7406
<b>Total</b>	<b>2.8000e-004</b>	<b>2.2700e-003</b>	<b>2.8200e-003</b>	<b>2.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>1.6467</b>	<b>1.6467</b>	<b>5.0000e-005</b>	<b>1.6000e-004</b>	<b>1.6948</b>

**3.12 Stage 3 Pavement Marking - 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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	2.2000e-003	2.8000e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.7507	0.7507	2.0000e-004	0.0000	0.7556
<b>Total</b>	<b>0.0108</b>	<b>2.2000e-003</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7507</b>	<b>0.7507</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7556</b>

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

**3.12 Stage 3 Pavement Marking - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0919	0.0919	0.0000	0.0000	0.0926
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0919</b>	<b>0.0919</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0926</b>

**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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5000e-004	2.2000e-003	2.8000e-003	1.0000e-005		9.0000e-005	9.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.7507	0.7507	2.0000e-004	0.0000	0.7556
<b>Total</b>	<b>0.0108</b>	<b>2.2000e-003</b>	<b>2.8000e-003</b>	<b>1.0000e-005</b>		<b>9.0000e-005</b>	<b>9.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.7507</b>	<b>0.7507</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.7556</b>

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

**3.12 Stage 3 Pavement Marking - 2026**

**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	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	0.0000
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0919	0.0919	0.0000	0.0000	0.0000	0.0926
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0919</b>	<b>0.0919</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0926</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383



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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

**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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Camino Del Mar Bridge Replacement Stage 3 - San Diego County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**Camino Del Mar Bridge Replacement Stage 4  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project eningeers.

Off-Highway Trucks = concrete pump truck.

Off-road Equipment - Equipment estimate per project eningeers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	200.00	21.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Stage 4 Bridge Gap Forms and Steel	Building Construction	4/1/2026	4/28/2026	5	20	
2	Stage 4 Bridge Gap Concrete	Building Construction	4/29/2026	5/27/2026	5	21	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**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
Stage 4 Bridge Gap Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Forms and Steel	Cranes	1	8.00	231	0.29
Stage 4 Bridge Gap Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 4 Bridge Gap Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 4 Bridge Gap Forms and Steel	Welders	2	8.00	46	0.45
Stage 4 Bridge Gap Concrete	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Concrete	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Concrete	Off-Highway Trucks	1	8.00	402	0.38

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

Stage 4 Bridge Gap Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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**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
Stage 4 Bridge Gap Forms and Steel	9	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 4 Bridge Gap Concrete	6	50.00	10.00	100.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9699	16.3171	21.6983	0.0385		0.6347	0.6347		0.6167	0.6167		3,606.1523	3,606.1523	0.5128		3,618.9717
<b>Total</b>	<b>1.9699</b>	<b>16.3171</b>	<b>21.6983</b>	<b>0.0385</b>		<b>0.6347</b>	<b>0.6347</b>		<b>0.6167</b>	<b>0.6167</b>		<b>3,606.1523</b>	<b>3,606.1523</b>	<b>0.5128</b>		<b>3,618.9717</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.3351	0.1978	2.6798	9.5600e-003	1.2773	5.7500e-003	1.2831	0.3387	5.2900e-003	0.3440		1,004.4276	1,004.4276	0.0193	0.0225	1,011.6040
<b>Total</b>	<b>0.3450</b>	<b>0.6023</b>	<b>2.8253</b>	<b>0.0113</b>	<b>1.3386</b>	<b>8.1100e-003</b>	<b>1.3467</b>	<b>0.3564</b>	<b>7.5500e-003</b>	<b>0.3639</b>		<b>1,195.1358</b>	<b>1,195.1358</b>	<b>0.0258</b>	<b>0.0501</b>	<b>1,210.7090</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9699	16.3171	21.6983	0.0385		0.6347	0.6347		0.6167	0.6167	0.0000	3,606.1523	3,606.1523	0.5128		3,618.9716
<b>Total</b>	<b>1.9699</b>	<b>16.3171</b>	<b>21.6983</b>	<b>0.0385</b>		<b>0.6347</b>	<b>0.6347</b>		<b>0.6167</b>	<b>0.6167</b>	<b>0.0000</b>	<b>3,606.1523</b>	<b>3,606.1523</b>	<b>0.5128</b>		<b>3,618.9716</b>



Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.3351	0.1978	2.6798	9.5600e-003	1.2773	5.7500e-003	1.2831	0.3387	5.2900e-003	0.3440		1,004.4276	1,004.4276	0.0193	0.0225	1,011.6040
<b>Total</b>	<b>0.3450</b>	<b>0.6023</b>	<b>2.8253</b>	<b>0.0113</b>	<b>1.3386</b>	<b>8.1100e-003</b>	<b>1.3467</b>	<b>0.3564</b>	<b>7.5500e-003</b>	<b>0.3639</b>		<b>1,195.1358</b>	<b>1,195.1358</b>	<b>0.0258</b>	<b>0.0501</b>	<b>1,210.7090</b>

**3.3 Stage 4 Bridge Gap Concrete - 2026**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5981	12.0468	17.5585	0.0374		0.4846	0.4846		0.4721	0.4721		3,578.3286	3,578.3286	0.5986		3,593.2923
<b>Total</b>	<b>1.5981</b>	<b>12.0468</b>	<b>17.5585</b>	<b>0.0374</b>		<b>0.4846</b>	<b>0.4846</b>		<b>0.4721</b>	<b>0.4721</b>		<b>3,578.3286</b>	<b>3,578.3286</b>	<b>0.5986</b>		<b>3,593.2923</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.3 Stage 4 Bridge Gap Concrete - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7600e-003	0.6241	0.1804	2.6700e-003	0.0833	5.2600e-003	0.0886	0.0228	5.0300e-003	0.0279		297.0521	297.0521	0.0173	0.0474	311.5956
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1873</b>	<b>1.1276</b>	<b>1.6658</b>	<b>9.2100e-003</b>	<b>0.7832</b>	<b>0.0105</b>	<b>0.7937</b>	<b>0.2098</b>	<b>9.9300e-003</b>	<b>0.2198</b>		<b>989.9741</b>	<b>989.9741</b>	<b>0.0335</b>	<b>0.0862</b>	<b>1,016.5027</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5981	12.0468	17.5585	0.0374		0.4846	0.4846		0.4721	0.4721	0.0000	3,578.3286	3,578.3286	0.5986		3,593.2923
<b>Total</b>	<b>1.5981</b>	<b>12.0468</b>	<b>17.5585</b>	<b>0.0374</b>		<b>0.4846</b>	<b>0.4846</b>		<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>3,578.3286</b>	<b>3,578.3286</b>	<b>0.5986</b>		<b>3,593.2923</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.3 Stage 4 Bridge Gap Concrete - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7600e-003	0.6241	0.1804	2.6700e-003	0.0833	5.2600e-003	0.0886	0.0228	5.0300e-003	0.0279		297.0521	297.0521	0.0173	0.0474	311.5956
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1873</b>	<b>1.1276</b>	<b>1.6658</b>	<b>9.2100e-003</b>	<b>0.7832</b>	<b>0.0105</b>	<b>0.7937</b>	<b>0.2098</b>	<b>9.9300e-003</b>	<b>0.2198</b>		<b>989.9741</b>	<b>989.9741</b>	<b>0.0335</b>	<b>0.0862</b>	<b>1,016.5027</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Unmitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Annual

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

**Camino Del Mar Bridge Replacement Stage 4  
San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project eningeers.

Off-Highway Trucks = concrete pump truck.

Off-road Equipment - Equipment estimate per project eningeers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	200.00	21.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2026	6-30-2026	0.3458	0.3458
		Highest	0.3458	0.3458

**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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 4 Bridge Gap Forms and Steel	Building Construction	4/1/2026	4/28/2026	5	20	
2	Stage 4 Bridge Gap Concrete	Building Construction	4/29/2026	5/27/2026	5	21	

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

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**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
Stage 4 Bridge Gap Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Forms and Steel	Cranes	1	8.00	231	0.29
Stage 4 Bridge Gap Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 4 Bridge Gap Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 4 Bridge Gap Forms and Steel	Welders	2	8.00	46	0.45
Stage 4 Bridge Gap Concrete	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Concrete	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Concrete	Off-Highway Trucks	1	8.00	402	0.38
Stage 4 Bridge Gap Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Stage 4 Bridge Gap Forms and Steel	9	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 4 Bridge Gap Concrete	6	50.00	10.00	100.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

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

**3.2 Stage 4 Bridge Gap Forms and Steel - 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	0.0197	0.1632	0.2170	3.9000e-004		6.3500e-003	6.3500e-003		6.1700e-003	6.1700e-003	0.0000	32.7145	32.7145	4.6500e-003	0.0000	32.8308
<b>Total</b>	<b>0.0197</b>	<b>0.1632</b>	<b>0.2170</b>	<b>3.9000e-004</b>		<b>6.3500e-003</b>	<b>6.3500e-003</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>32.7145</b>	<b>32.7145</b>	<b>4.6500e-003</b>	<b>0.0000</b>	<b>32.8308</b>

**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	1.0000e-004	4.0200e-003	1.4300e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	1.7284	1.7284	6.0000e-005	2.5000e-004	1.8045
Worker	3.0000e-003	1.9400e-003	0.0269	1.0000e-004	0.0125	6.0000e-005	0.0125	3.3100e-003	5.0000e-005	3.3700e-003	0.0000	9.1932	9.1932	1.7000e-004	2.0000e-004	9.2575
<b>Total</b>	<b>3.1000e-003</b>	<b>5.9600e-003</b>	<b>0.0284</b>	<b>1.2000e-004</b>	<b>0.0131</b>	<b>8.0000e-005</b>	<b>0.0132</b>	<b>3.4800e-003</b>	<b>7.0000e-005</b>	<b>3.5700e-003</b>	<b>0.0000</b>	<b>10.9216</b>	<b>10.9216</b>	<b>2.3000e-004</b>	<b>4.5000e-004</b>	<b>11.0620</b>



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

**3.2 Stage 4 Bridge Gap Forms and Steel - 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	0.0197	0.1632	0.2170	3.9000e-004		6.3500e-003	6.3500e-003		6.1700e-003	6.1700e-003	0.0000	32.7144	32.7144	4.6500e-003	0.0000	32.8307
<b>Total</b>	<b>0.0197</b>	<b>0.1632</b>	<b>0.2170</b>	<b>3.9000e-004</b>		<b>6.3500e-003</b>	<b>6.3500e-003</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>	<b>0.0000</b>	<b>32.7144</b>	<b>32.7144</b>	<b>4.6500e-003</b>	<b>0.0000</b>	<b>32.8307</b>

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	1.0000e-004	4.0200e-003	1.4300e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	1.7284	1.7284	6.0000e-005	2.5000e-004	1.8045
Worker	3.0000e-003	1.9400e-003	0.0269	1.0000e-004	0.0125	6.0000e-005	0.0125	3.3100e-003	5.0000e-005	3.3700e-003	0.0000	9.1932	9.1932	1.7000e-004	2.0000e-004	9.2575
<b>Total</b>	<b>3.1000e-003</b>	<b>5.9600e-003</b>	<b>0.0284</b>	<b>1.2000e-004</b>	<b>0.0131</b>	<b>8.0000e-005</b>	<b>0.0132</b>	<b>3.4800e-003</b>	<b>7.0000e-005</b>	<b>3.5700e-003</b>	<b>0.0000</b>	<b>10.9216</b>	<b>10.9216</b>	<b>2.3000e-004</b>	<b>4.5000e-004</b>	<b>11.0620</b>

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

**3.3 Stage 4 Bridge Gap Concrete - 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	0.0168	0.1265	0.1844	3.9000e-004		5.0900e-003	5.0900e-003		4.9600e-003	4.9600e-003	0.0000	34.0852	34.0852	5.7000e-003	0.0000	34.2277
<b>Total</b>	<b>0.0168</b>	<b>0.1265</b>	<b>0.1844</b>	<b>3.9000e-004</b>		<b>5.0900e-003</b>	<b>5.0900e-003</b>		<b>4.9600e-003</b>	<b>4.9600e-003</b>	<b>0.0000</b>	<b>34.0852</b>	<b>34.0852</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>34.2277</b>

**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	1.1000e-004	6.5300e-003	1.8800e-003	3.0000e-005	8.6000e-004	6.0000e-005	9.1000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.8279	2.8279	1.7000e-004	4.5000e-004	2.9663
Vendor	1.1000e-004	4.2200e-003	1.5000e-003	2.0000e-005	6.3000e-004	2.0000e-005	6.6000e-004	1.8000e-004	2.0000e-005	2.1000e-004	0.0000	1.8148	1.8148	6.0000e-005	2.6000e-004	1.8947
Worker	1.5700e-003	1.0200e-003	0.0141	5.0000e-005	6.5500e-003	3.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.8264	4.8264	9.0000e-005	1.1000e-004	4.8602
<b>Total</b>	<b>1.7900e-003</b>	<b>0.0118</b>	<b>0.0175</b>	<b>1.0000e-004</b>	<b>8.0400e-003</b>	<b>1.1000e-004</b>	<b>8.1500e-003</b>	<b>2.1600e-003</b>	<b>1.0000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.4691</b>	<b>9.4691</b>	<b>3.2000e-004</b>	<b>8.2000e-004</b>	<b>9.7212</b>

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

**3.3 Stage 4 Bridge Gap Concrete - 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	0.0168	0.1265	0.1844	3.9000e-004		5.0900e-003	5.0900e-003		4.9600e-003	4.9600e-003	0.0000	34.0851	34.0851	5.7000e-003	0.0000	34.2277
<b>Total</b>	<b>0.0168</b>	<b>0.1265</b>	<b>0.1844</b>	<b>3.9000e-004</b>		<b>5.0900e-003</b>	<b>5.0900e-003</b>		<b>4.9600e-003</b>	<b>4.9600e-003</b>	<b>0.0000</b>	<b>34.0851</b>	<b>34.0851</b>	<b>5.7000e-003</b>	<b>0.0000</b>	<b>34.2277</b>

**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	1.1000e-004	6.5300e-003	1.8800e-003	3.0000e-005	8.6000e-004	6.0000e-005	9.1000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	2.8279	2.8279	1.7000e-004	4.5000e-004	2.9663
Vendor	1.1000e-004	4.2200e-003	1.5000e-003	2.0000e-005	6.3000e-004	2.0000e-005	6.6000e-004	1.8000e-004	2.0000e-005	2.1000e-004	0.0000	1.8148	1.8148	6.0000e-005	2.6000e-004	1.8947
Worker	1.5700e-003	1.0200e-003	0.0141	5.0000e-005	6.5500e-003	3.0000e-005	6.5800e-003	1.7400e-003	3.0000e-005	1.7700e-003	0.0000	4.8264	4.8264	9.0000e-005	1.1000e-004	4.8602
<b>Total</b>	<b>1.7900e-003</b>	<b>0.0118</b>	<b>0.0175</b>	<b>1.0000e-004</b>	<b>8.0400e-003</b>	<b>1.1000e-004</b>	<b>8.1500e-003</b>	<b>2.1600e-003</b>	<b>1.0000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>9.4691</b>	<b>9.4691</b>	<b>3.2000e-004</b>	<b>8.2000e-004</b>	<b>9.7212</b>

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383





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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

**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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**Camino Del Mar Bridge Replacement Stage 4**

**San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment - Equipment estimate per project eningeers.

Off-Highway Trucks = concrete pump truck.

Off-road Equipment - Equipment estimate per project eningeers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	200.00	21.00
tblConstructionPhase	PhaseEndDate	1/5/2027	4/28/2026

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

tblConstructionPhase	PhaseEndDate	10/12/2027	2/3/2027
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	21.00	100.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00

**2.0 Emissions Summary**

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Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.3149	16.9194	24.5236	0.0499	1.3386	0.6428	1.9814	0.3564	0.6243	0.9807	0.0000	4,801.288 1	4,801.288 1	0.5386	0.0501	4,829.680 7
2027	1.7767	13.1523	19.1549	0.0464	0.7832	0.4949	1.2781	0.2098	0.4818	0.6917	0.0000	4,546.762 1	4,546.762 1	0.6318	0.0840	4,587.596 2
<b>Maximum</b>	<b>2.3149</b>	<b>16.9194</b>	<b>24.5236</b>	<b>0.0499</b>	<b>1.3386</b>	<b>0.6428</b>	<b>1.9814</b>	<b>0.3564</b>	<b>0.6243</b>	<b>0.9807</b>	<b>0.0000</b>	<b>4,801.288 1</b>	<b>4,801.288 1</b>	<b>0.6318</b>	<b>0.0840</b>	<b>4,829.680 7</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2026	2.3149	16.9194	24.5236	0.0499	1.3386	0.6428	1.9814	0.3564	0.6243	0.9807	0.0000	4,801.288 1	4,801.288 1	0.5386	0.0501	4,829.680 7
2027	1.7767	13.1523	19.1549	0.0464	0.7832	0.4949	1.2781	0.2098	0.4818	0.6917	0.0000	4,546.762 1	4,546.762 1	0.6318	0.0840	4,587.596 1
<b>Maximum</b>	<b>2.3149</b>	<b>16.9194</b>	<b>24.5236</b>	<b>0.0499</b>	<b>1.3386</b>	<b>0.6428</b>	<b>1.9814</b>	<b>0.3564</b>	<b>0.6243</b>	<b>0.9807</b>	<b>0.0000</b>	<b>4,801.288 1</b>	<b>4,801.288 1</b>	<b>0.6318</b>	<b>0.0840</b>	<b>4,829.680 7</b>





Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Stage 4 Bridge Gap Forms and Steel	Building Construction	4/1/2026	4/28/2026	5	20	
2	Stage 4 Bridge Gap Concrete	Building Construction	1/6/2027	2/3/2027	5	21	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.15**

**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
Stage 4 Bridge Gap Forms and Steel	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Forms and Steel	Cranes	1	8.00	231	0.29
Stage 4 Bridge Gap Forms and Steel	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Forms and Steel	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 4 Bridge Gap Forms and Steel	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 4 Bridge Gap Forms and Steel	Welders	2	8.00	46	0.45
Stage 4 Bridge Gap Concrete	Air Compressors	2	8.00	78	0.48
Stage 4 Bridge Gap Concrete	Generator Sets	2	8.00	84	0.74
Stage 4 Bridge Gap Concrete	Off-Highway Trucks	1	8.00	402	0.38

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

Stage 4 Bridge Gap Concrete	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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**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
Stage 4 Bridge Gap Forms and Steel	9	100.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 4 Bridge Gap Concrete	6	50.00	10.00	100.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9699	16.3171	21.6983	0.0385		0.6347	0.6347		0.6167	0.6167		3,606.1523	3,606.1523	0.5128		3,618.9717
<b>Total</b>	<b>1.9699</b>	<b>16.3171</b>	<b>21.6983</b>	<b>0.0385</b>		<b>0.6347</b>	<b>0.6347</b>		<b>0.6167</b>	<b>0.6167</b>		<b>3,606.1523</b>	<b>3,606.1523</b>	<b>0.5128</b>		<b>3,618.9717</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.3351	0.1978	2.6798	9.5600e-003	1.2773	5.7500e-003	1.2831	0.3387	5.2900e-003	0.3440		1,004.4276	1,004.4276	0.0193	0.0225	1,011.6040
<b>Total</b>	<b>0.3450</b>	<b>0.6023</b>	<b>2.8253</b>	<b>0.0113</b>	<b>1.3386</b>	<b>8.1100e-003</b>	<b>1.3467</b>	<b>0.3564</b>	<b>7.5500e-003</b>	<b>0.3639</b>		<b>1,195.1358</b>	<b>1,195.1358</b>	<b>0.0258</b>	<b>0.0501</b>	<b>1,210.7090</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9699	16.3171	21.6983	0.0385		0.6347	0.6347		0.6167	0.6167	0.0000	3,606.1523	3,606.1523	0.5128		3,618.9716
<b>Total</b>	<b>1.9699</b>	<b>16.3171</b>	<b>21.6983</b>	<b>0.0385</b>		<b>0.6347</b>	<b>0.6347</b>		<b>0.6167</b>	<b>0.6167</b>	<b>0.0000</b>	<b>3,606.1523</b>	<b>3,606.1523</b>	<b>0.5128</b>		<b>3,618.9716</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.2 Stage 4 Bridge Gap Forms and Steel - 2026**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.3351	0.1978	2.6798	9.5600e-003	1.2773	5.7500e-003	1.2831	0.3387	5.2900e-003	0.3440		1,004.4276	1,004.4276	0.0193	0.0225	1,011.6040
<b>Total</b>	<b>0.3450</b>	<b>0.6023</b>	<b>2.8253</b>	<b>0.0113</b>	<b>1.3386</b>	<b>8.1100e-003</b>	<b>1.3467</b>	<b>0.3564</b>	<b>7.5500e-003</b>	<b>0.3639</b>		<b>1,195.1358</b>	<b>1,195.1358</b>	<b>0.0258</b>	<b>0.0501</b>	<b>1,210.7090</b>

**3.3 Stage 4 Bridge Gap Concrete - 2027**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5981	12.0468	17.5585	0.0374		0.4846	0.4846		0.4721	0.4721		3,578.3286	3,578.3286	0.5986		3,593.2923
<b>Total</b>	<b>1.5981</b>	<b>12.0468</b>	<b>17.5585</b>	<b>0.0374</b>		<b>0.4846</b>	<b>0.4846</b>		<b>0.4721</b>	<b>0.4721</b>		<b>3,578.3286</b>	<b>3,578.3286</b>	<b>0.5986</b>		<b>3,593.2923</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.3 Stage 4 Bridge Gap Concrete - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.6500e-003	0.6147	0.1823	2.6000e-003	0.0833	5.2100e-003	0.0885	0.0228	4.9800e-003	0.0278		290.2952	290.2952	0.0178	0.0463	304.5386
Vendor	9.7500e-003	0.4003	0.1440	1.7200e-003	0.0613	2.3400e-003	0.0636	0.0176	2.2400e-003	0.0199		186.7693	186.7693	6.6800e-003	0.0271	194.9982
Worker	0.1591	0.0906	1.2701	4.6400e-003	0.6387	2.7100e-003	0.6414	0.1694	2.4900e-003	0.1719		491.3691	491.3691	8.8200e-003	0.0107	494.7671
<b>Total</b>	<b>0.1785</b>	<b>1.1056</b>	<b>1.5964</b>	<b>8.9600e-003</b>	<b>0.7832</b>	<b>0.0103</b>	<b>0.7935</b>	<b>0.2098</b>	<b>9.7100e-003</b>	<b>0.2195</b>		<b>968.4335</b>	<b>968.4335</b>	<b>0.0333</b>	<b>0.0840</b>	<b>994.3039</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5981	12.0468	17.5585	0.0374		0.4846	0.4846		0.4721	0.4721	0.0000	3,578.3286	3,578.3286	0.5986		3,593.2923
<b>Total</b>	<b>1.5981</b>	<b>12.0468</b>	<b>17.5585</b>	<b>0.0374</b>		<b>0.4846</b>	<b>0.4846</b>		<b>0.4721</b>	<b>0.4721</b>	<b>0.0000</b>	<b>3,578.3286</b>	<b>3,578.3286</b>	<b>0.5986</b>		<b>3,593.2923</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**3.3 Stage 4 Bridge Gap Concrete - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.6500e-003	0.6147	0.1823	2.6000e-003	0.0833	5.2100e-003	0.0885	0.0228	4.9800e-003	0.0278		290.2952	290.2952	0.0178	0.0463	304.5386
Vendor	9.7500e-003	0.4003	0.1440	1.7200e-003	0.0613	2.3400e-003	0.0636	0.0176	2.2400e-003	0.0199		186.7693	186.7693	6.6800e-003	0.0271	194.9982
Worker	0.1591	0.0906	1.2701	4.6400e-003	0.6387	2.7100e-003	0.6414	0.1694	2.4900e-003	0.1719		491.3691	491.3691	8.8200e-003	0.0107	494.7671
<b>Total</b>	<b>0.1785</b>	<b>1.1056</b>	<b>1.5964</b>	<b>8.9600e-003</b>	<b>0.7832</b>	<b>0.0103</b>	<b>0.7935</b>	<b>0.2098</b>	<b>9.7100e-003</b>	<b>0.2195</b>		<b>968.4335</b>	<b>968.4335</b>	<b>0.0333</b>	<b>0.0840</b>	<b>994.3039</b>



Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Unmitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 4 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**Camino Del Mar Bridge Replacement Stage 5**

**San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment -

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = pavement striping truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Grading -

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

Architectural Coating - Traffic marking VOC content limit per SDAPCD 67.0.1, effective January 1, 2022.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstructionPhase	NumDays	4.00	14.00
tblConstructionPhase	NumDays	200.00	12.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	2.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00
tblTripsAndVMT	WorkerTripNumber	4.00	20.00





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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2026	8-31-2026	0.3228	0.3228
		Highest	0.3228	0.3228

**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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 5 Final Contour Grading	Grading	6/1/2026	6/18/2026	5	14	
2	Stage 5 Signage Installation	Building Construction	6/19/2026	7/6/2026	5	12	
3	Stage 5 Final Pavement Striping	Architectural Coating	7/7/2026	7/8/2026	5	2	

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

4	Stage 5 Water Lines and Runoff Devices	Building Construction	7/9/2026	8/5/2026	5	20
5	Stage 5 Cleanup and Demobilization	Site Preparation	8/6/2026	8/31/2026	5	18

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 7**

**Acres of Paving: 1.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,000 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 5 Cleanup and Demobilization	Cranes	1	8.00	231	0.29
Stage 5 Cleanup and Demobilization	Generator Sets	1	8.00	84	0.74
Stage 5 Cleanup and Demobilization	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 5 Cleanup and Demobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Final Contour Grading	Crawler Tractors	1	8.00	212	0.43
Stage 5 Final Contour Grading	Generator Sets	1	8.00	84	0.74
Stage 5 Final Contour Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Signage Installation	Cranes	1	8.00	231	0.29
Stage 5 Signage Installation	Generator Sets	1	8.00	84	0.74
Stage 5 Signage Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Water Lines and Runoff Devices	Air Compressors	1	8.00	78	0.48
Stage 5 Water Lines and Runoff Devices	Cranes	1	8.00	231	0.29
Stage 5 Water Lines and Runoff Devices	Generator Sets	1	8.00	84	0.74
Stage 5 Water Lines and Runoff Devices	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Final Pavement Striping	Air Compressors	1	8.00	78	0.48
Stage 5 Final Pavement Striping	Off-Highway Trucks	1	8.00	402	0.38

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

**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
Stage 5 Cleanup and Demobilization	4	50.00	10.00	200.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Final Contour Grading	3	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Signage Installation	3	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Water Lines and Runoff Devices	4	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Final Pavement Striping	2	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Stage 5 Final Contour Grading - 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					
Fugitive Dust					3.7100e-003	0.0000	3.7100e-003	4.0000e-004	0.0000	4.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4100e-003	0.0538	0.0560	1.2000e-004		2.1300e-003	2.1300e-003		2.0100e-003	2.0100e-003	0.0000	10.6898	10.6898	2.3200e-003	0.0000	10.7479
<b>Total</b>	<b>5.4100e-003</b>	<b>0.0538</b>	<b>0.0560</b>	<b>1.2000e-004</b>	<b>3.7100e-003</b>	<b>2.1300e-003</b>	<b>5.8400e-003</b>	<b>4.0000e-004</b>	<b>2.0100e-003</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>10.6898</b>	<b>10.6898</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>10.7479</b>

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

**3.2 Stage 5 Final Contour Grading - 2026**

**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	7.0000e-005	2.8100e-003	1.0000e-003	1.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.2099	1.2099	4.0000e-005	1.8000e-004	1.2631
Worker	1.0500e-003	6.8000e-004	9.4200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3800e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.2176	3.2176	6.0000e-005	7.0000e-005	3.2401
<b>Total</b>	<b>1.1200e-003</b>	<b>3.4900e-003</b>	<b>0.0104</b>	<b>4.0000e-005</b>	<b>4.7800e-003</b>	<b>4.0000e-005</b>	<b>4.8200e-003</b>	<b>1.2800e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>4.4275</b>	<b>4.4275</b>	<b>1.0000e-004</b>	<b>2.5000e-004</b>	<b>4.5033</b>

**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					1.6700e-003	0.0000	1.6700e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4100e-003	0.0538	0.0560	1.2000e-004		2.1300e-003	2.1300e-003		2.0100e-003	2.0100e-003	0.0000	10.6898	10.6898	2.3200e-003	0.0000	10.7479
<b>Total</b>	<b>5.4100e-003</b>	<b>0.0538</b>	<b>0.0560</b>	<b>1.2000e-004</b>	<b>1.6700e-003</b>	<b>2.1300e-003</b>	<b>3.8000e-003</b>	<b>1.8000e-004</b>	<b>2.0100e-003</b>	<b>2.1900e-003</b>	<b>0.0000</b>	<b>10.6898</b>	<b>10.6898</b>	<b>2.3200e-003</b>	<b>0.0000</b>	<b>10.7479</b>

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

**3.2 Stage 5 Final Contour Grading - 2026**

**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	7.0000e-005	2.8100e-003	1.0000e-003	1.0000e-005	4.2000e-004	2.0000e-005	4.4000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.2099	1.2099	4.0000e-005	1.8000e-004	1.2631
Worker	1.0500e-003	6.8000e-004	9.4200e-003	3.0000e-005	4.3600e-003	2.0000e-005	4.3800e-003	1.1600e-003	2.0000e-005	1.1800e-003	0.0000	3.2176	3.2176	6.0000e-005	7.0000e-005	3.2401
<b>Total</b>	<b>1.1200e-003</b>	<b>3.4900e-003</b>	<b>0.0104</b>	<b>4.0000e-005</b>	<b>4.7800e-003</b>	<b>4.0000e-005</b>	<b>4.8200e-003</b>	<b>1.2800e-003</b>	<b>4.0000e-005</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>4.4275</b>	<b>4.4275</b>	<b>1.0000e-004</b>	<b>2.5000e-004</b>	<b>4.5033</b>

**3.3 Stage 5 Signage Installation - 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	4.2700e-003	0.0414	0.0458	9.0000e-005		1.7000e-003	1.7000e-003		1.6100e-003	1.6100e-003	0.0000	8.0771	8.0771	1.6400e-003	0.0000	8.1181
<b>Total</b>	<b>4.2700e-003</b>	<b>0.0414</b>	<b>0.0458</b>	<b>9.0000e-005</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>8.0771</b>	<b>8.0771</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>8.1181</b>

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

**3.3 Stage 5 Signage Installation - 2026**

**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	6.0000e-005	2.4100e-003	8.6000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	1.0370	1.0370	4.0000e-005	1.5000e-004	1.0827
Worker	9.0000e-004	5.8000e-004	8.0800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7600e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.7580	2.7580	5.0000e-005	6.0000e-005	2.7772
<b>Total</b>	<b>9.6000e-004</b>	<b>2.9900e-003</b>	<b>8.9400e-003</b>	<b>4.0000e-005</b>	<b>4.1000e-003</b>	<b>3.0000e-005</b>	<b>4.1300e-003</b>	<b>1.0900e-003</b>	<b>3.0000e-005</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.7950</b>	<b>3.7950</b>	<b>9.0000e-005</b>	<b>2.1000e-004</b>	<b>3.8599</b>

**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	4.2700e-003	0.0414	0.0458	9.0000e-005		1.7000e-003	1.7000e-003		1.6100e-003	1.6100e-003	0.0000	8.0771	8.0771	1.6400e-003	0.0000	8.1181
<b>Total</b>	<b>4.2700e-003</b>	<b>0.0414</b>	<b>0.0458</b>	<b>9.0000e-005</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>8.0771</b>	<b>8.0771</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>8.1181</b>



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

**3.3 Stage 5 Signage Installation - 2026**

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	6.0000e-005	2.4100e-003	8.6000e-004	1.0000e-005	3.6000e-004	1.0000e-005	3.7000e-004	1.0000e-004	1.0000e-005	1.2000e-004	0.0000	1.0370	1.0370	4.0000e-005	1.5000e-004	1.0827
Worker	9.0000e-004	5.8000e-004	8.0800e-003	3.0000e-005	3.7400e-003	2.0000e-005	3.7600e-003	9.9000e-004	2.0000e-005	1.0100e-003	0.0000	2.7580	2.7580	5.0000e-005	6.0000e-005	2.7772
<b>Total</b>	<b>9.6000e-004</b>	<b>2.9900e-003</b>	<b>8.9400e-003</b>	<b>4.0000e-005</b>	<b>4.1000e-003</b>	<b>3.0000e-005</b>	<b>4.1300e-003</b>	<b>1.0900e-003</b>	<b>3.0000e-005</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>3.7950</b>	<b>3.7950</b>	<b>9.0000e-005</b>	<b>2.1000e-004</b>	<b>3.8599</b>

**3.4 Stage 5 Final Pavement Striping - 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	6.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	4.3900e-003	5.6000e-003	2.0000e-005		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	1.5013	1.5013	3.9000e-004	0.0000	1.5112
<b>Total</b>	<b>7.6600e-003</b>	<b>4.3900e-003</b>	<b>5.6000e-003</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.5013</b>	<b>1.5013</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.5112</b>

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

**3.4 Stage 5 Final Pavement Striping - 2026**

**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	6.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1852
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1839</b>	<b>0.1839</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1852</b>

**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	6.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	4.3900e-003	5.6000e-003	2.0000e-005		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	1.5013	1.5013	3.9000e-004	0.0000	1.5112
<b>Total</b>	<b>7.6600e-003</b>	<b>4.3900e-003</b>	<b>5.6000e-003</b>	<b>2.0000e-005</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.5013</b>	<b>1.5013</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.5112</b>

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

**3.4 Stage 5 Final Pavement Striping - 2026**

**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	6.0000e-005	4.0000e-005	5.4000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1839	0.1839	0.0000	0.0000	0.1852
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1839</b>	<b>0.1839</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1852</b>

**3.5 Stage 5 Water Lines and Runoff Devices - 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	9.3900e-003	0.0843	0.1004	1.9000e-004		3.5300e-003	3.5300e-003		3.3800e-003	3.3800e-003	0.0000	16.8662	16.8662	2.9200e-003	0.0000	16.9392
<b>Total</b>	<b>9.3900e-003</b>	<b>0.0843</b>	<b>0.1004</b>	<b>1.9000e-004</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>16.8662</b>	<b>16.8662</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>16.9392</b>

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

**3.5 Stage 5 Water Lines and Runoff Devices - 2026**

**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	1.0000e-004	4.0200e-003	1.4300e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	1.7284	1.7284	6.0000e-005	2.5000e-004	1.8045
Worker	1.5000e-003	9.7000e-004	0.0135	5.0000e-005	6.2300e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6800e-003	0.0000	4.5966	4.5966	9.0000e-005	1.0000e-004	4.6287
<b>Total</b>	<b>1.6000e-003</b>	<b>4.9900e-003</b>	<b>0.0149</b>	<b>7.0000e-005</b>	<b>6.8300e-003</b>	<b>5.0000e-005</b>	<b>6.8800e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.3250</b>	<b>6.3250</b>	<b>1.5000e-004</b>	<b>3.5000e-004</b>	<b>6.4332</b>

**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	9.3900e-003	0.0843	0.1004	1.9000e-004		3.5300e-003	3.5300e-003		3.3800e-003	3.3800e-003	0.0000	16.8662	16.8662	2.9200e-003	0.0000	16.9392
<b>Total</b>	<b>9.3900e-003</b>	<b>0.0843</b>	<b>0.1004</b>	<b>1.9000e-004</b>		<b>3.5300e-003</b>	<b>3.5300e-003</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>16.8662</b>	<b>16.8662</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>16.9392</b>

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

**3.5 Stage 5 Water Lines and Runoff Devices - 2026**

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	1.0000e-004	4.0200e-003	1.4300e-003	2.0000e-005	6.0000e-004	2.0000e-005	6.2000e-004	1.7000e-004	2.0000e-005	2.0000e-004	0.0000	1.7284	1.7284	6.0000e-005	2.5000e-004	1.8045
Worker	1.5000e-003	9.7000e-004	0.0135	5.0000e-005	6.2300e-003	3.0000e-005	6.2600e-003	1.6600e-003	3.0000e-005	1.6800e-003	0.0000	4.5966	4.5966	9.0000e-005	1.0000e-004	4.6287
<b>Total</b>	<b>1.6000e-003</b>	<b>4.9900e-003</b>	<b>0.0149</b>	<b>7.0000e-005</b>	<b>6.8300e-003</b>	<b>5.0000e-005</b>	<b>6.8800e-003</b>	<b>1.8300e-003</b>	<b>5.0000e-005</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>6.3250</b>	<b>6.3250</b>	<b>1.5000e-004</b>	<b>3.5000e-004</b>	<b>6.4332</b>

**3.6 Stage 5 Cleanup and Demobilization - 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					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.0737	0.0892	1.7000e-004		2.8800e-003	2.8800e-003		2.7200e-003	2.7200e-003	0.0000	14.8404	14.8404	3.3400e-003	0.0000	14.9239
<b>Total</b>	<b>7.2700e-003</b>	<b>0.0737</b>	<b>0.0892</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.8800e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>2.7200e-003</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>14.8404</b>	<b>14.8404</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>14.9239</b>

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

**3.6 Stage 5 Cleanup and Demobilization - 2026**

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	2.1000e-004	0.0131	3.7600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.6558	5.6558	3.3000e-004	9.0000e-004	5.9327
Vendor	9.0000e-005	3.6100e-003	1.2900e-003	2.0000e-005	5.4000e-004	2.0000e-005	5.6000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.5556	1.5556	5.0000e-005	2.3000e-004	1.6240
Worker	1.3500e-003	8.7000e-004	0.0121	4.0000e-005	5.6100e-003	3.0000e-005	5.6400e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	4.1369	4.1369	8.0000e-005	9.0000e-005	4.1659
<b>Total</b>	<b>1.6500e-003</b>	<b>0.0176</b>	<b>0.0172</b>	<b>1.2000e-004</b>	<b>7.8600e-003</b>	<b>1.6000e-004</b>	<b>8.0200e-003</b>	<b>2.1200e-003</b>	<b>1.5000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>11.3482</b>	<b>11.3482</b>	<b>4.6000e-004</b>	<b>1.2200e-003</b>	<b>11.7226</b>

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2700e-003	0.0737	0.0892	1.7000e-004		2.8800e-003	2.8800e-003		2.7200e-003	2.7200e-003	0.0000	14.8404	14.8404	3.3400e-003	0.0000	14.9239
<b>Total</b>	<b>7.2700e-003</b>	<b>0.0737</b>	<b>0.0892</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.8800e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>2.7200e-003</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>14.8404</b>	<b>14.8404</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>14.9239</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**3.6 Stage 5 Cleanup and Demobilization - 2026**

**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	2.1000e-004	0.0131	3.7600e-003	6.0000e-005	1.7100e-003	1.1000e-004	1.8200e-003	4.7000e-004	1.1000e-004	5.8000e-004	0.0000	5.6558	5.6558	3.3000e-004	9.0000e-004	5.9327
Vendor	9.0000e-005	3.6100e-003	1.2900e-003	2.0000e-005	5.4000e-004	2.0000e-005	5.6000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.5556	1.5556	5.0000e-005	2.3000e-004	1.6240
Worker	1.3500e-003	8.7000e-004	0.0121	4.0000e-005	5.6100e-003	3.0000e-005	5.6400e-003	1.4900e-003	2.0000e-005	1.5100e-003	0.0000	4.1369	4.1369	8.0000e-005	9.0000e-005	4.1659
<b>Total</b>	<b>1.6500e-003</b>	<b>0.0176</b>	<b>0.0172</b>	<b>1.2000e-004</b>	<b>7.8600e-003</b>	<b>1.6000e-004</b>	<b>8.0200e-003</b>	<b>2.1200e-003</b>	<b>1.5000e-004</b>	<b>2.2700e-003</b>	<b>0.0000</b>	<b>11.3482</b>	<b>11.3482</b>	<b>4.6000e-004</b>	<b>1.2200e-003</b>	<b>11.7226</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383







Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
Unmitigated	5.0100e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004

**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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.9000e-004	8.9000e-004	0.0000	0.0000	9.5000e-004
<b>Total</b>	<b>5.0100e-003</b>	<b>0.0000</b>	<b>4.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**Camino Del Mar Bridge Replacement Stage 5**

**San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	50.00	1000sqft	1.15	50,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2027
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - This model is for construction impacts only.

Land Use - Land use area is approximate footprint of construction area and is not used in model calculations.

Construction Phase - Construction schedule per project engineers.

Off-road Equipment -

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Off-Highway Trucks = pavement striping truck.

Off-road Equipment - Equipment estimate per project engineers.

Off-road Equipment - Equipment estimate per project engineers.

Trips and VMT - Trips based on equipment estimates, stage activity and material requirements.

Grading -

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

Architectural Coating - Traffic marking VOC content limit per SDAPCD 67.0.1, effective January 1, 2022.

Construction Off-road Equipment Mitigation - Fugitive dust mitigation to meet SDAPCD Rule 55 requirements.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblConstructionPhase	NumDays	4.00	14.00
tblConstructionPhase	NumDays	200.00	12.00
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	2.00	18.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	VendorTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00
tblTripsAndVMT	WorkerTripNumber	21.00	50.00
tblTripsAndVMT	WorkerTripNumber	4.00	20.00



Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Stage 5 Final Contour Grading	Grading	6/1/2026	6/18/2026	5	14	
2	Stage 5 Signage Installation	Building Construction	6/19/2026	7/6/2026	5	12	
3	Stage 5 Final Pavement Striping	Architectural Coating	7/7/2026	7/8/2026	5	2	
4	Stage 5 Water Lines and Runoff Devices	Building Construction	7/9/2026	8/5/2026	5	20	
5	Stage 5 Cleanup and Demobilization	Site Preparation	8/6/2026	8/31/2026	5	18	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 7**

**Acres of Paving: 1.15**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,000 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 5 Cleanup and Demobilization	Cranes	1	8.00	231	0.29
Stage 5 Cleanup and Demobilization	Generator Sets	1	8.00	84	0.74
Stage 5 Cleanup and Demobilization	Rough Terrain Forklifts	1	8.00	100	0.40
Stage 5 Cleanup and Demobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Final Contour Grading	Crawler Tractors	1	8.00	212	0.43
Stage 5 Final Contour Grading	Generator Sets	1	8.00	84	0.74

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

Stage 5 Final Contour Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Signage Installation	Cranes	1	8.00	231	0.29
Stage 5 Signage Installation	Generator Sets	1	8.00	84	0.74
Stage 5 Signage Installation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Water Lines and Runoff Devices	Air Compressors	1	8.00	78	0.48
Stage 5 Water Lines and Runoff Devices	Cranes	1	8.00	231	0.29
Stage 5 Water Lines and Runoff Devices	Generator Sets	1	8.00	84	0.74
Stage 5 Water Lines and Runoff Devices	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Stage 5 Final Pavement Striping	Air Compressors	1	8.00	78	0.48
Stage 5 Final Pavement Striping	Off-Highway Trucks	1	8.00	402	0.38

**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
Stage 5 Cleanup and Demobilization	4	50.00	10.00	200.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Final Contour Grading	3	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Signage Installation	3	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Water Lines and Runoff Devices	4	50.00	10.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Stage 5 Final Pavement Striping	2	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.2 Stage 5 Final Contour Grading - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7722	7.6882	7.9929	0.0175		0.3039	0.3039		0.2873	0.2873		1,683.3589	1,683.3589	0.3660		1,692.5077
<b>Total</b>	<b>0.7722</b>	<b>7.6882</b>	<b>7.9929</b>	<b>0.0175</b>	<b>0.5303</b>	<b>0.3039</b>	<b>0.8342</b>	<b>0.0573</b>	<b>0.2873</b>	<b>0.3445</b>		<b>1,683.3589</b>	<b>1,683.3589</b>	<b>0.3660</b>		<b>1,692.5077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.2 Stage 5 Final Contour Grading - 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	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.7722	7.6882	7.9929	0.0175		0.3039	0.3039		0.2873	0.2873	0.0000	1,683.3589	1,683.3589	0.3660		1,692.5077
<b>Total</b>	<b>0.7722</b>	<b>7.6882</b>	<b>7.9929</b>	<b>0.0175</b>	<b>0.2386</b>	<b>0.3039</b>	<b>0.5426</b>	<b>0.0258</b>	<b>0.2873</b>	<b>0.3130</b>	<b>0.0000</b>	<b>1,683.3589</b>	<b>1,683.3589</b>	<b>0.3660</b>		<b>1,692.5077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.3 Stage 5 Signage Installation - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7113	6.8985	7.6256	0.0155		0.2841	0.2841		0.2690	0.2690		1,483.9167	1,483.9167	0.3015		1,491.4529
<b>Total</b>	<b>0.7113</b>	<b>6.8985</b>	<b>7.6256</b>	<b>0.0155</b>		<b>0.2841</b>	<b>0.2841</b>		<b>0.2690</b>	<b>0.2690</b>		<b>1,483.9167</b>	<b>1,483.9167</b>	<b>0.3015</b>		<b>1,491.4529</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.3 Stage 5 Signage Installation - 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	lb/day										lb/day					
Off-Road	0.7113	6.8985	7.6256	0.0155		0.2841	0.2841		0.2690	0.2690	0.0000	1,483.9167	1,483.9167	0.3015		1,491.4529
<b>Total</b>	<b>0.7113</b>	<b>6.8985</b>	<b>7.6256</b>	<b>0.0155</b>		<b>0.2841</b>	<b>0.2841</b>		<b>0.2690</b>	<b>0.2690</b>	<b>0.0000</b>	<b>1,483.9167</b>	<b>1,483.9167</b>	<b>0.3015</b>		<b>1,491.4529</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.4 Stage 5 Final Pavement Striping - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7054	4.3934	5.5977	0.0172		0.1711	0.1711		0.1629	0.1629		1,654.9395	1,654.9395	0.4343		1,665.7981
<b>Total</b>	<b>7.6579</b>	<b>4.3934</b>	<b>5.5977</b>	<b>0.0172</b>		<b>0.1711</b>	<b>0.1711</b>		<b>0.1629</b>	<b>0.1629</b>		<b>1,654.9395</b>	<b>1,654.9395</b>	<b>0.4343</b>		<b>1,665.7981</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0670	0.0396	0.5360	1.9100e-003	0.2555	1.1500e-003	0.2566	0.0678	1.0600e-003	0.0688		200.8855	200.8855	3.8500e-003	4.4900e-003	202.3208
<b>Total</b>	<b>0.0670</b>	<b>0.0396</b>	<b>0.5360</b>	<b>1.9100e-003</b>	<b>0.2555</b>	<b>1.1500e-003</b>	<b>0.2566</b>	<b>0.0678</b>	<b>1.0600e-003</b>	<b>0.0688</b>		<b>200.8855</b>	<b>200.8855</b>	<b>3.8500e-003</b>	<b>4.4900e-003</b>	<b>202.3208</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.4 Stage 5 Final Pavement Striping - 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	lb/day										lb/day					
Archit. Coating	6.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7054	4.3934	5.5977	0.0172		0.1711	0.1711		0.1629	0.1629	0.0000	1,654.9395	1,654.9395	0.4343		1,665.7981
<b>Total</b>	<b>7.6579</b>	<b>4.3934</b>	<b>5.5977</b>	<b>0.0172</b>		<b>0.1711</b>	<b>0.1711</b>		<b>0.1629</b>	<b>0.1629</b>	<b>0.0000</b>	<b>1,654.9395</b>	<b>1,654.9395</b>	<b>0.4343</b>		<b>1,665.7981</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0670	0.0396	0.5360	1.9100e-003	0.2555	1.1500e-003	0.2566	0.0678	1.0600e-003	0.0688		200.8855	200.8855	3.8500e-003	4.4900e-003	202.3208
<b>Total</b>	<b>0.0670</b>	<b>0.0396</b>	<b>0.5360</b>	<b>1.9100e-003</b>	<b>0.2555</b>	<b>1.1500e-003</b>	<b>0.2566</b>	<b>0.0678</b>	<b>1.0600e-003</b>	<b>0.0688</b>		<b>200.8855</b>	<b>200.8855</b>	<b>3.8500e-003</b>	<b>4.4900e-003</b>	<b>202.3208</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.5 Stage 5 Water Lines and Runoff Devices - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9392	8.4258	10.0378	0.0194		0.3528	0.3528		0.3377	0.3377		1,859.1807	1,859.1807	0.3219		1,867.2287
<b>Total</b>	<b>0.9392</b>	<b>8.4258</b>	<b>10.0378</b>	<b>0.0194</b>		<b>0.3528</b>	<b>0.3528</b>		<b>0.3377</b>	<b>0.3377</b>		<b>1,859.1807</b>	<b>1,859.1807</b>	<b>0.3219</b>		<b>1,867.2287</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.5 Stage 5 Water Lines and Runoff Devices - 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	lb/day										lb/day					
Off-Road	0.9392	8.4258	10.0378	0.0194		0.3528	0.3528		0.3377	0.3377	0.0000	1,859.1807	1,859.1807	0.3219		1,867.2287
<b>Total</b>	<b>0.9392</b>	<b>8.4258</b>	<b>10.0378</b>	<b>0.0194</b>		<b>0.3528</b>	<b>0.3528</b>		<b>0.3377</b>	<b>0.3377</b>	<b>0.0000</b>	<b>1,859.1807</b>	<b>1,859.1807</b>	<b>0.3219</b>		<b>1,867.2287</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.1775</b>	<b>0.5034</b>	<b>1.4854</b>	<b>6.5400e-003</b>	<b>0.6999</b>	<b>5.2300e-003</b>	<b>0.7052</b>	<b>0.1870</b>	<b>4.9000e-003</b>	<b>0.1919</b>		<b>692.9220</b>	<b>692.9220</b>	<b>0.0162</b>	<b>0.0389</b>	<b>704.9071</b>



Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.6 Stage 5 Cleanup and Demobilization - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8083	8.1828	9.9112	0.0189		0.3202	0.3202		0.3022	0.3022		1,817.634 2	1,817.634 2	0.4094		1,827.868 7
<b>Total</b>	<b>0.8083</b>	<b>8.1828</b>	<b>9.9112</b>	<b>0.0189</b>	<b>0.0000</b>	<b>0.3202</b>	<b>0.3202</b>	<b>0.0000</b>	<b>0.3022</b>	<b>0.3022</b>		<b>1,817.634 2</b>	<b>1,817.634 2</b>	<b>0.4094</b>		<b>1,827.868 7</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	1.4563	0.4210	6.2200e-003	0.1944	0.0123	0.2066	0.0533	0.0117	0.0650		693.1217	693.1217	0.0405	0.1105	727.0564
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.2003</b>	<b>1.9597</b>	<b>1.9064</b>	<b>0.0128</b>	<b>0.8943</b>	<b>0.0175</b>	<b>0.9118</b>	<b>0.2403</b>	<b>0.0166</b>	<b>0.2569</b>		<b>1,386.043 7</b>	<b>1,386.043 7</b>	<b>0.0566</b>	<b>0.1493</b>	<b>1,431.963 5</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**3.6 Stage 5 Cleanup and Demobilization - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.8083	8.1828	9.9112	0.0189		0.3202	0.3202		0.3022	0.3022	0.0000	1,817.634 2	1,817.634 2	0.4094		1,827.868 7
<b>Total</b>	<b>0.8083</b>	<b>8.1828</b>	<b>9.9112</b>	<b>0.0189</b>	<b>0.0000</b>	<b>0.3202</b>	<b>0.3202</b>	<b>0.0000</b>	<b>0.3022</b>	<b>0.3022</b>	<b>0.0000</b>	<b>1,817.634 2</b>	<b>1,817.634 2</b>	<b>0.4094</b>		<b>1,827.868 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0228	1.4563	0.4210	6.2200e-003	0.1944	0.0123	0.2066	0.0533	0.0117	0.0650		693.1217	693.1217	0.0405	0.1105	727.0564
Vendor	9.9900e-003	0.4045	0.1455	1.7600e-003	0.0613	2.3600e-003	0.0636	0.0176	2.2600e-003	0.0199		190.7082	190.7082	6.5300e-003	0.0276	199.1051
Worker	0.1675	0.0989	1.3399	4.7800e-003	0.6387	2.8700e-003	0.6415	0.1694	2.6400e-003	0.1720		502.2138	502.2138	9.6300e-003	0.0112	505.8020
<b>Total</b>	<b>0.2003</b>	<b>1.9597</b>	<b>1.9064</b>	<b>0.0128</b>	<b>0.8943</b>	<b>0.0175</b>	<b>0.9118</b>	<b>0.2403</b>	<b>0.0166</b>	<b>0.2569</b>		<b>1,386.043 7</b>	<b>1,386.043 7</b>	<b>0.0566</b>	<b>0.1493</b>	<b>1,431.963 5</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.568480	0.062094	0.174123	0.115064	0.023357	0.006399	0.009361	0.006325	0.000693	0.000596	0.028205	0.000919	0.004383

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day											lb/day				
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Mitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
Unmitigated	0.0277	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	9.5200e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0109	0.0109	3.0000e-005		0.0117
<b>Total</b>	<b>0.0277</b>	<b>5.0000e-005</b>	<b>5.0900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0109</b>	<b>0.0109</b>	<b>3.0000e-005</b>		<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Camino Del Mar Bridge Replacement Stage 5 - San Diego County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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