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## M E M O

Date: July 5, 2022

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From: James Reyff  
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RE: 557 East Bayshore Road, Redwood City, CA  
I&R Job #17-108

SUBJECT: 557 East Bayshore Road Cumulative Construction Community Risk Analysis

In August 2020, *Illingworth & Rodkin, Inc.* prepared an air quality and greenhouse gas (GHG) emissions assessment for the 557 East Bayshore Road Project<sup>1</sup> in Redwood City, California. Since the original analysis was completed, a new project located adjacent to the west at 505 East Bayshore Road has been proposed. It is possible that the project located at 505 East Bayshore Road could finish construction prior to the beginning of construction of this project. If that were to occur, new sensitive receptors would be located within 1,000 feet of the project site that were not included in the original analysis. This memorandum addresses the health risk impacts at those receptors if the project located at 505 East Bayshore Road is completed prior to the 557 East Bayshore Road project. Conversely, this memorandum also addresses the construction impacts at the on-site receptors of this 557 East Bayshore Road project from the construction of the 505 East Bayshore Road project if this 557 East Bayshore Road project is operational prior to the construction of the 505 East Bayshore Road project.

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<sup>1</sup> Illingworth & Rodkin, Inc, *557 East Bayshore Road Air Quality, Community Risk & Greenhouse Gas Assessment*, August 17, 2020

## Community Risk Methodology for Construction and Operation

Community risk impacts were addressed in the same manner as they were in the original analysis. The same project construction and operational emissions used in the original analysis were used in the analysis.

### Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes existing residences to the east of the project site and the proposed 505 East Bayshore Road project receptors to the west, as shown in **Error! Not a valid bookmark self-reference.** Residential receptors are assumed to include all receptor groups (i.e. infants, children, and adults) with almost continuous exposure to project emissions.

### Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict concentrations of DPM and PM<sub>2.5</sub> concentrations at sensitive receptors (residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.<sup>2</sup>

### *Construction Sources*

Modeling of the construction of the site was conducted in the same manner as the original analysis. The modeling utilized four area sources to represent the on-site construction emissions, two for exhaust emissions and two for fugitive dust emissions to represent the construction of the VillaSports Building and the Residential Buildings A and B.

To represent the construction equipment exhaust emissions, an emission release height of 20 feet (6 meters) was used for the area sources.<sup>3</sup> The 20-foot release height used for the refined modeling of the project's construction equipment exhaust DPM emissions is a conservative estimate of the overall plume height and incorporates both the release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would do for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe.

For modeling fugitive PM<sub>2.5</sub> emissions, a near-ground level release height of 7 feet (2 meters) was

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<sup>2</sup> Bay Area Air Quality Management District (BAAQMD), 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May.

<sup>3</sup> California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology*. April. Web: <https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm>

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

### *AERMOD Inputs and Meteorological Data*

The modeling used a 5-year meteorological data set (2013-2017) from the Moffett Field Airport prepared for use with the AERMOD model by BAAQMD. Annual DPM and PM<sub>2.5</sub> concentrations from construction activities during the 2021-2024 period were calculated using AERMOD. DPM and PM<sub>2.5</sub> concentrations were calculated at nearby sensitive receptor locations. A receptor height of 5 feet (1.5 meters) and 15 feet (4.5 meters) was used to represent the breathing heights of residents in nearby townhomes developments.

Construction emissions were modeled as occurring daily between 6:00 a.m. to 6:00 p.m. per the Project Applicant's construction schedule. The emission rates used for dispersion modeling were calculated using the total annual construction emissions computed using CalEEMod (based on construction occurring 5 days per week) and dividing by 12 hours per day for 365 days (i.e., normalizing the emissions to an annualized pound per hour emission rate over the period being modeled). The dispersion modeling was conducted assuming emissions would occur 12 hours per day using the variable emission option in the U.S. EPA AERMOD dispersion model, Monday through Friday.

### Predicted Construction Community Risk and Hazards

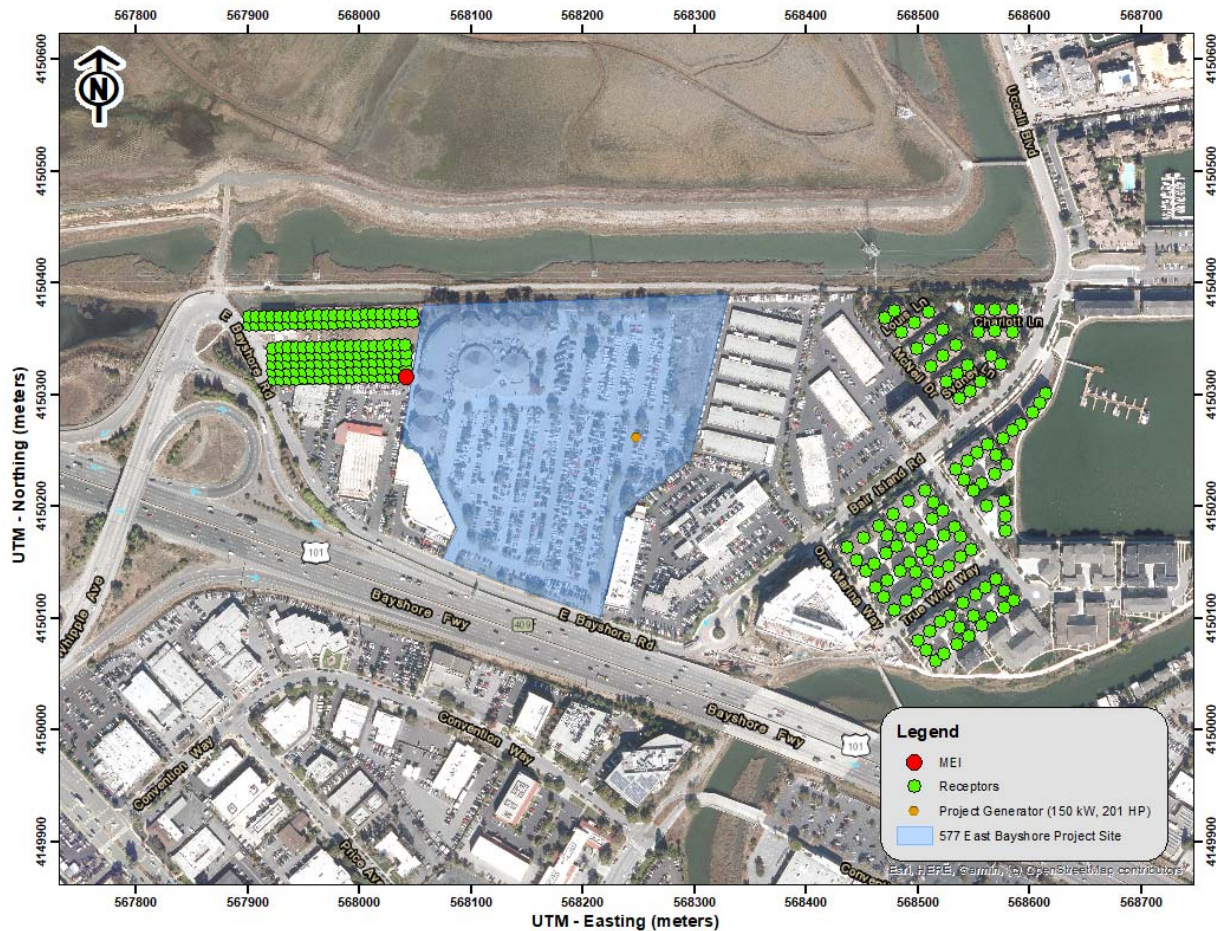
The increased cancer risk calculations were conducted in the same manner as the original analysis and were based on applying the BAAQMD recommended age sensitivity factors to the TAC concentrations. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Infant and adult exposures were assumed to occur at all residences during the entire construction period.

The maximum modeled annual PM<sub>2.5</sub> concentration was calculated based on combined PM<sub>10</sub> exhaust and fugitive concentrations. The maximum computed HI values was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation reference exposure level of 5 µg/m<sup>3</sup>.

The maximum modeled annual DPM and PM<sub>2.5</sub> concentrations were identified at nearby sensitive receptors (as shown in Figure 1) to find the maximally exposed individuals (MEI). Results of this updated assessment indicated that the MEI most affected by construction has changed from the original analysis and was now located on the first floor of a townhome to the west at the 505 East Bayshore Road project. Table 1 lists the community risks from construction at the location of residential MEI. Figure 1 shows the location of the maximum DPM and fugitive PM<sub>2.5</sub>

concentrations at the residential MEI.

**Figure 1. Locations of Modeled Construction Areas, Project Generator, Off-Site Sensitive Receptors, and Maximum TAC Impacts**



### Community Risks from Project Operation – Traffic and Generators

Operation of the project would have long-term emissions from mobile sources (i.e. traffic) and stationary sources (i.e. generators). While these emissions would not be as intensive (at or near the site) as construction activity, they would contribute to long-term effects to sensitive receptors.

#### Project Traffic

Modeling project traffic was not part of the original analysis and was not included as a part of this analysis either. The project would generate a small amount of traffic that would not substantially contribute to health risk impacts.

#### Operational Emergency Generator Modeling

Modeling of the operational emergency generator was conducted in the same manner as the original analysis.

*Computed Risks and Hazards from Project Generators*

Increased cancer risks from use of the generators were calculated using the modeled maximum annual DPM concentrations and BAAQMD recommended risk assessment methods and parameters. The PM<sub>2.5</sub> concentration and non-cancerous (i.e. Hazard Index) health risk impacts were also calculated. An exposure duration of 26 years was used to calculate the increased cancer risk from the generators since project construction would take four years. The results are also listed in Table 1.

**Summary of Project-Related Community Risks at the Offsite Project MEI**

For this project, the sensitive receptor identified in Figure 1 as the construction MEI is also the project MEI. At this location, the MEI would be exposed to four years of construction cancer risks and 26 years of operational (emergency backup generators) cancer risks. The cancer risks from construction and operation of the project were summed together. The annual PM<sub>2.5</sub> concentration, and HI values are based on an annual maximum risk for the entirety of the project.

Project risk impacts are shown in Table 1. The unmitigated maximum cancer risks and annual PM<sub>2.5</sub> concentration exceed the BAAQMD single-source significance threshold. However, with the incorporation of the *Mitigation Measure AQ-1* of the original analysis and the revised *Mitigation Measure AQ-2* in this memo to replace *MM AQ-2* of the original analysis, the mitigated cancer risk and annual PM<sub>2.5</sub> concentration would no longer exceed the BAAQMD single-source significance threshold. The unmitigated Hazard Index from construction activities at the residential project MEI location would not exceed the single-source significance thresholds. *Attachment 1* to this memo includes the emission calculations used for the project construction and operational modeling and the cancer risk calculations.

**Table 1. Construction and Operation Risk Impacts at the Offsite Project MEI**

Source		Cancer Risk (per million)	Annual PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Hazard Index
Project Construction	Unmitigated	<b>29.69 (infant)</b>	<b>0.42</b>	0.01
	Mitigated	6.67 (infant)	0.09	<0.01
Project Generators (Years 5-30)		0.02	<0.01	<0.01
Total/Maximum Project Impact	Unmitigated	<b>29.71 (infant)</b>	<b>0.42</b>	0.01
	Mitigated	6.69 (infant)	0.09	<0.01
<b>BAAQMD Single-Source Threshold</b>		<b>10</b>	<b>0.3</b>	<b>1.0</b>
<b>Exceed Threshold?</b>	Unmitigated	<b>Yes</b>	<b>Yes</b>	<b>No</b>
	Mitigated	<b>No</b>	<b>No</b>	<b>No</b>

Construction Risk Impacts from Nearby Developments

Based on information provided by the project applicant, the 505 East Bayshore Road project has the potential to affect the project MEI and project receptors:

- **505 East Bayshore Road** – this project is located at 505 East Bayshore Road, which is adjacent to the project site on the west side. This project would construct nine townhouse

buildings and an open space common area with amenities. Fifty-six (56) townhouse units ranging from 1,200 square feet to 1,700 square feet would be divided among the nine buildings and would range from two- to three-stories. Based on information provided by the project applicant, there is potential for this project to be constructed simultaneously or consecutively with the proposed project.

The air quality technical analysis for the 505 East Bayshore Road project was conducted by *Illingworth & Rodkin, Inc.*<sup>4</sup> As such, the mitigated construction emissions for the 505 East Bayshore Road project are included in the cumulative risk sections for the 557 East Bayshore Road project in Tables 2 and 3 below.

#### Summary of Cumulative TAC Risks at the Off-Site Project MEI

Table 2 reports both the project and cumulative community risk impacts. The project would have an exceedance with respect to construction and operation community risk since the cancer risk and the annual PM<sub>2.5</sub> concentration are above the BAAQMD single-source thresholds. The cumulative unmitigated annual PM<sub>2.5</sub> concentration exceed the BAAQMD cumulative-source thresholds. With implementation of *Mitigation Measure AQ-1* of the original analysis and the revised *Mitigation Measure AQ-2* in this memo to replace *MM AQ-2* of the original analysis, the construction community risks would be reduced to below single-source thresholds and the cumulative annual PM<sub>2.5</sub> concentration would be reduced to below cumulative-source thresholds. The combined increased cancer risk and HI values (unmitigated or mitigated) would not exceed the BAAQMD cumulative source thresholds. Therefore, the project would not contribute to a cumulative increase in TAC emissions within the local area.

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<sup>4</sup> Illingworth & Rodkin, Inc, *505 East Bayshore Road Air Quality & Greenhouse Gas Assessment*, March 23, 2022.

**Table 2. Impacts from Cumulative TAC Sources at Off-site MEI**

Source		Cancer Risk (per million)	Annual PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Hazard Index
Total/Maximum Project Impact	Unmitigated	<b>29.71 (infant)</b>	<b>0.42</b>	0.01
	Mitigated	6.69 (infant)	0.09	<0.01
<b>BAAQMD Single-Source Threshold</b>		<b>10</b>	<b>0.3</b>	<b>1.0</b>
<b>Exceed Threshold?</b>	Unmitigated	<b>Yes</b>	<b>Yes</b>	<b>No</b>
	Mitigated	<b>No</b>	<b>No</b>	<b>No</b>
<b>Cumulative Sources</b>				
U.S. Route 101		10.53	0.33	<0.01
Whipple Avenue, ADT 19,785		0.74	0.04	<0.01
San Mateo Credit Union (Facility ID #17640, Generator) MEI Distance 1000+ feet		0.01	-	-
Satellite Healthcare Inc (Facility ID #18300, Generator) MEI Distance 1000+ feet		0.04	-	-
Redwood City, Public Works-Blair Island Storm Drain (Facility ID #23539, Generator) MEI Distance 1000+ feet		0.50	<0.01	<0.01
California Highway Patrol (Facility ID #107781, Gas Dispensing Facility) MEI Distance 1000+ feet		0.04	-	-
Putnam Lexus (Facility ID #200079, Coating Operations) MEI Distance 835 feet		-	-	-
Global Power Group Inc (Facility ID #17587, Generator) MEI Distance 1000+ feet		0.42	<0.01	<0.01
Cumulative Total	Unmitigated	41.99	<b>&lt;0.81</b>	<0.05
	Mitigated	18.97	<0.48	<0.05
<b>BAAQMD Cumulative Source Threshold</b>		<b>100</b>	<b>0.8</b>	<b>10.0</b>
<b>Exceed Threshold?</b>	Unmitigated	<b>No</b>	<b>Yes</b>	<b>No</b>
	Mitigated	<b>No</b>	<b>No</b>	<b>No</b>

**Revised Mitigation Measure AQ-2: Use Construction equipment that has low diesel particulate matter exhaust.**

If sensitive receptors are located at the 505 East Bayshore Road project, then *Mitigation Measure AQ-2* would need to be revised from to include Tier 4 Interim equipment to meet the increased DPM reduction requirements, rather than Tier 3 equipment or implement a feasible plan to reduce diesel particulate matter emissions such that increased cancer risk and annual PM<sub>2.5</sub> concentrations from construction would be reduced below TAC significance levels as follows:

1. All construction equipment larger than 25 horsepower used at the site for demolition and earthwork phases that operate for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 emission standards for PM (PM<sub>10</sub> and PM<sub>2.5</sub>), if feasible, otherwise,
  - a. If use of Tier 4 equipment is not available, alternatively use equipment that meets U.S. EPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices that altogether achieve a 70 percent reduction in particulate matter exhaust in comparison to uncontrolled equipment; alternatively (or in combination).



- b. Use of electrical or non-diesel fueled equipment.
2. Alternatively, the applicant may develop another construction operations plan demonstrating that the construction equipment used on-site would achieve a reduction in construction diesel particulate matter emissions by 70 percent or greater across all construction phases. Elements of the plan could include a combination of some of the following measures:
    - Implementation of No. 1 above to use Tier 4 or alternatively fueled equipment,
    - Installation of electric power lines during early construction phases to avoid use of diesel generators and compressors,
    - Use of electrically-powered equipment,
    - Forklifts and aerial lifts used for exterior and interior building construction shall be electric or propane/natural gas powered,
    - Change in construction build-out plans to lengthen phases, and
    - Implementation of different building techniques that result in less diesel equipment usage.

Such a construction operations plan would be subject to review by an air quality expert and approved by the City prior to construction.

#### *Effectiveness of Mitigation Measure AQ-2*

CalEEMod was used to compute emissions associated with this mitigation measure assuming that all equipment met U.S. EPA Tier 4 interim engines standards and BAAQMD best management practices for construction were included. With this measure implemented, the project's cancer risk levels (assuming infant exposure) at potential sensitive receptors located at the 505 East Bayshore project would be reduced to 6.7 chances per million, assuming use of Tier 4 interim equipment. Annual PM<sub>2.5</sub> concentrations would be reduced to 0.09 ug/m<sup>3</sup>. Assuming a lesser level of mitigation that achieves a 70-percent reduction across all construction phases, increased cancer risks would be reduced to below 10 chances per million. As a result, the project's construction and operational risks would be reduced below the BAAQMD single-source thresholds.

#### **Non-CEQA Impacts:            Exposure of Project Residents to Existing TACs Source**

The health risk analysis at the new proposed on-site sensitive receptors performed in the original analysis was unchanged for this analysis. The construction risk impacts associated with 505 East Bayshore Road were included in the analysis and are shown below in Table 3. The *Condition of Approval AQ-1* of the original analysis to reduce the PM<sub>2.5</sub> exposure from traffic on U.S. 101 to a level below the single-source-threshold would still be required. However, the addition of the 505 East Bayshore Road mitigated construction risk impacts would not cause an exceedance the single or cumulative thresholds at the project receptors at the 557 East Bayshore Road project, so no additional measures are necessary.



**Table 3. Impacts from Cumulative TAC Sources at the Project Site**

Source	Cancer Risk (per million)	Annual PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Hazard Index
Project Generator (150 kW, 201 HP)	0.05	<0.01	<0.01
U.S. Route 101 Residential Building A 1 <sup>st</sup> Floor	6.39	<b>0.46</b>	<0.01
Whipple Avenue, ADT 19,785	0.36	0.04	<0.01
San Mateo Credit Union (Facility ID #17640, Generator) MEI Distance 925 feet	0.01	-	-
Satellite Healthcare Inc (Facility ID #18300, Generator) MEI Distance 940 feet	0.04	-	-
Redwood City, Public Works-Blair Island Storm Drain (Facility ID #23539, Generator) MEI Distance 675 feet	0.99	<0.01	<0.01
California Highway Patrol (Facility ID #107781, Gas Dispensing Facility) MEI Distance 950 feet	0.04	-	-
Putnam Lexus (Facility ID #200079, Coating Operations) MEI Distance 750 feet	-	-	-
Global Power Group Inc (Facility ID #17587, Generator) MEI Distance >1,000 feet	0.42	<0.01	<0.01
505 East Bayshore Road Mitigated Construction – adjacent west	<1.51	<0.12	<0.01
<b>BAAQMD Single-Source Threshold</b>	<b>10</b>	<b>0.3</b>	<b>0.1</b>
<b>Exceed Threshold?</b>	<i>No</i>	<b>Yes (U.S. Route 101)</b>	<i>No</i>
Maximum Cumulative Total	9.81	<0.65	<0.06
<b>BAAQMD Cumulative Source Threshold</b>	<b>100</b>	<b>0.8</b>	<b>10.0</b>
<b>Exceed Threshold?</b>	<i>No</i>	<i>No</i>	<i>No</i>

# Attachment 1: Project Construction and Operational Dispersion Modeling Inputs and Risk Calculations

557 East Bayshore, Redwood City

## DPM Emissions and Modeling Emission Rates - Unmitigated

Emissions Model	Activity	DPM ton/year	Area Source	DPM Emissions			Modelec Area (m <sup>2</sup> )	DPM Emission Rate (g/s/m <sup>2</sup> )
				(lb/yr)	(lb/hr)	(g/s)		
<b><i>VillaSports Construction Area</i></b>								
<b>2023</b>	Construction	0.2123	DPM	424.6	0.09694	1.22E-02	26,980	<b>4.53E-07</b>
<b>2024</b>	Construction	0.0130	DPM	25.9	0.00591	7.45E-04	26,980	<b>2.76E-08</b>
<b><i>Residential Construction Area</i></b>								
<b>2023</b>	Construction	0.0681	DPM	136.2	0.03110	3.92E-03	31,425	<b>1.25E-07</b>
<b>2024</b>	Construction	0.0612	DPM	122.4	0.02795	3.52E-03	31,425	<b>1.12E-07</b>
<b>2025</b>	Construction	0.0311	DPM	62.2	0.01419	1.79E-03	31,425	<b>5.69E-08</b>
<b>Total</b>		<b>0.3857</b>		<b>771</b>	<b>0.1761</b>	<b>0.0222</b>		

### Construction Hours

hr/day = 12 (6am - 6pm)

days/yr = 365

hours/year = 4380

557 East Bayshore, Redwood City

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction		Area	PM2.5 Emissions				Area	PM2.5 Modeled Emission Rate
Year	Activity	Source	ton/year	(lb/yr)	(lb/hr)	(g/s)	(m <sup>2</sup> )	g/s/m <sup>2</sup>
<b><i>VillaSports Construction Area</i></b>								
<b>2023</b>	Construction	FUG	0.3174	634.7	0.14491	1.83E-02	26,980	<b>6.77E-07</b>
<b>2024</b>	Construction	FUG	0.0021	4.3	0.00097	1.23E-04	26,980	<b>4.55E-09</b>
<b><i>Residential Construction Area</i></b>								
<b>2023</b>	Construction	FUG	0.0670	134.0	0.03059	3.85E-03	31,425	<b>1.23E-07</b>
<b>2024</b>	Construction	FUG	0.0055	11.0	0.00251	3.16E-04	31,425	<b>1.01E-08</b>
<b>2025</b>	Construction	FUG	0.0107	21.4	0.00488	6.15E-04	31,425	<b>1.96E-08</b>
<b>Total</b>			<b>0.4027</b>	<b>805</b>	<b>0.1839</b>	<b>0.0232</b>		

*Construction Hours*

hr/day = 12 (6am - 6pm)

days/yr = 365

hours/year = 4380

**DPM Construction Emissions and Modeling Emission Rates - With Mitigation**

Emissions Model	Year	Activity	DPM ton/year	Area Source	DPM Emissions			Area (m <sup>2</sup> )	DPM
					(lb/yr)	(lb/hr)	(g/s)		Modelec Emission Rate (g/s/m <sup>2</sup> )
<b><i>VillaSports Construction Area</i></b>									
<b>2023</b>		Construction	0.0438	DPM	87.6	0.02000	2.52E-03	26,980	<b>9.34E-08</b>
<b>2024</b>		Construction	0.0067	DPM	13.4	0.00306	3.86E-04	26,980	<b>1.43E-08</b>
<b><i>Residential Construction Area</i></b>									
<b>2023</b>		Construction	0.0131	DPM	26.2	0.00599	7.55E-04	31,425	<b>2.40E-08</b>
<b>2024</b>		Construction	0.0153	DPM	30.7	0.00701	8.83E-04	31,425	<b>2.81E-08</b>
<b>2025</b>		Construction	0.0175	DPM	35.0	0.00800	1.01E-03	31,425	<b>3.21E-08</b>
<b>Total</b>			<b>0.0965</b>		<b>193</b>	<b>0.0441</b>	<b>0.0056</b>		

*Construction Hours*

hr/day = 12 (6am - 6pm)

days/yr = 365

hours/year = 4380

**PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation**

							PM2.5	
Construction		Area	PM2.5 Emissions				Area	Modeled Emission Rate
Year	Activity	Source	ton/year	(lb/yr)	(lb/hr)	(g/s)	(m <sup>2</sup> )	g/s/m <sup>2</sup>
<b><i>VillaSports Construction Area</i></b>								
<b>2023</b>	Construction	FUG	0.0725	144.9	0.03309	4.17E-03	26,980	<b>1.55E-07</b>
<b>2024</b>	Construction	FUG	0.0021	4.3	0.00097	1.23E-04	26,980	<b>4.55E-09</b>
<b><i>Residential Construction Area</i></b>								
<b>2023</b>	Construction	FUG	0.0186	37.2	0.00849	1.07E-03	31,425	<b>3.41E-08</b>
<b>2024</b>	Construction	FUG	0.0055	11.0	0.00251	3.16E-04	31,425	<b>1.01E-08</b>
<b>2025</b>	Construction	FUG	0.0107	21.4	0.00488	6.15E-04	31,425	<b>1.96E-08</b>
<b>Total</b>			<b>0.1094</b>	<b>219</b>	<b>0.0499</b>	<b>0.0063</b>		

*Construction Hours*

hr/day = 12 (6am - 6pm)

days/yr = 365

hours/year = 4380

557 East Bayshore, Redwood City  
 Construction Health Impacts Summary

Maximum Impacts at Construction MEI Location - Unmitigated

Emissions Year	Maximum Concentrations				Hazard Index (-)	Maximum Annual PM2.5 Concentration ( $\mu\text{g}/\text{m}^3$ )
	Exhaust PM10/DPM ( $\mu\text{g}/\text{m}^3$ )	Fugitive PM2.5 ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk (per million)			
			Child	Adult		
2021	0.1716	0.2492	25.91	0.49	0.034	0.42
2022	0.0259	0.0033	3.62	0.07	0.005	0.03
2023	0.0084	0.0034	0.16	0.02	0.002	0.01
2024	0.0000	0.0000	0.00	0.00	0.000	0.00
<b>Total</b>	-	-	<b>29.7</b>	<b>0.6</b>	-	-
<b>Maximum</b>	0.1716	0.2492	-	-	<b>0.034</b>	<b>0.42</b>

Maximum Impacts at Construction MEI Location - With Mitigation

Emissions Year	Maximum Concentrations				Hazard Index (-)	Maximum Annual PM2.5 Concentration ( $\mu\text{g}/\text{m}^3$ )
	Exhaust PM10/DPM ( $\mu\text{g}/\text{m}^3$ )	Fugitive PM2.5 ( $\mu\text{g}/\text{m}^3$ )	Cancer Risk (per million)			
			Child	Adult		
2021	0.0351	0.0581	5.32	0.04	0.007	0.09
2022	0.0090	0.0033	1.26	0.01	0.002	0.01
2023	0.0048	0.0034	0.09	0.00	0.001	0.01
2024	0.0000	0.0000	0.00	0.00	0.000	0.00
<b>Total</b>	-	-	<b>6.7</b>	<b>0.0</b>	-	-
<b>Maximum</b>	0.0351	0.0581	-	-	<b>0.007</b>	<b>0.09</b>

**557 East Bayshore, Redwood City**  
**Maximum DPM Cancer Risk Calculations From Construction - Unmitigated Emissions**  
**Impacts at Off-Site Receptors - 15 feet**

Cancer Risk (per millio CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

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

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>-6</sup>

- Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)
- DBR = daily breathing rate (L/kg body weight-day)
- A = Inhalation absorption factor
- EF = Exposure frequency (days/year)
- 10<sup>-6</sup> = Conversion factor

**Values**

Parameter	Infant/Child			Adult
	Age --> 3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	0.85	0.85	0.72	0.73

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

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Maximum			
			DPM Conc (ug/m3)		Age		Modeled		Age		Sensitivity	Hazard Index	Fugitive PM2.5	Total PM2.5
			Year	Annual	Factor		Year	Annual	Factor					
0	0.25	-0.25 - 0*	2023	0.1624	10	1.96	2023	0.1624	-	-	0.034	0.249	0.421	
1	1	0 - 1	2023	0.1716	10	23.95	2023	0.1716	1	0.49	0.0343	0.2492	0.4208	
2	1	1 - 2	2024	0.0259	10	3.62	2024	0.0259	1	0.07	0.0052	0.0033	0.0292	
3	1	2 - 3	2025	0.0084	3	0.16	2025	0.0084	1	0.02	0.0017	0.0034	0.0118	
4	1	3 - 4			3	0.00			1	0.00				
5	1	4 - 5			3	0.00			1	0.00				
6	1	5 - 6			3	0.00			1	0.00				
7	1	6 - 7			3	0.00			1	0.00				
8	1	7 - 8			3	0.00			1	0.00				
9	1	8 - 9			3	0.00			1	0.00				
10	1	9 - 10			3	0.00			1	0.00				
11	1	10 - 11			3	0.00			1	0.00				
12	1	11 - 12			3	0.00			1	0.00				
13	1	12 - 13			3	0.00			1	0.00				
14	1	13 - 14			3	0.00			1	0.00				
15	1	14 - 15			3	0.00			1	0.00				
16	1	15 - 16			3	0.00			1	0.00				
17	1	16-17			1	0.00			1	0.00				
18	1	17-18			1	0.00			1	0.00				
19	1	18-19			1	0.00			1	0.00				
20	1	19-20			1	0.00			1	0.00				
21	1	20-21			1	0.00			1	0.00				
22	1	21-22			1	0.00			1	0.00				
23	1	22-23			1	0.00			1	0.00				
24	1	23-24			1	0.00			1	0.00				
25	1	24-25			1	0.00			1	0.00				
26	1	25-26			1	0.00			1	0.00				
27	1	26-27			1	0.00			1	0.00				
28	1	27-28			1	0.00			1	0.00				
29	1	28-29			1	0.00			1	0.00				
30	1	29-30			1	0.00			1	0.00				
<b>Total Increased Cancer Risk</b>						<b>29.69</b>				<b>0.59</b>				

\* Third trimester of pregnancy



**557 East Bayshore, Redwood City**  
**Maximum DPM Cancer Risk Calculations From Construction - Mitigated Emissions**  
**Impacts at Off-Site Receptors - 15 feet**

Cancer Risk (per millio CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

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

Inhalation Dose = C<sub>air</sub> x DBR x A x (EF/365) x 10<sup>6</sup>

Where: C<sub>air</sub> = concentration in air (µg/m<sup>3</sup>)  
 DBR = daily breathing rate (L/kg body weight-day)  
 A = Inhalation absorption factor  
 EF = Exposure frequency (days/year)  
 10<sup>6</sup> = Conversion factor

**Values**

Age -->	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	0.85	0.85	0.72	0.73

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

**Construction Cancer Risk by Year - Maximum Impact Receptor Location**

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Maximum		
			DPM Conc (ug/m3)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor		Hazard Index	Fugitive PM2.5	Total PM2.5
			Year	Annual			Year	Annual					
0	0.25	-0.25 - 0*	2023	0.0351	10	0.42	2023	0.0351	-	-	0.007	0.058	0.093
1	1	0 - 1	2023	0.0351	10	4.90	2023	0.0351	1	0.10	0.007	0.0581	0.093
2	1	1 - 2	2024	0.0090	10	1.26	2024	0.0090	1	0.03	0.002	0.0033	0.012
3	1	2 - 3	2025	0.0048	3	0.09	2025	0.0048	1	0.01	0.001	0.0034	0.008
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
<b>Total Increased Cancer Risk</b>						<b>6.67</b>				<b>0.14</b>			

\* Third trimester of pregnancy

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL**

**San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	614.00	Space	0.00	290,427.00	0
Other Non-Asphalt Surfaces	156.30	1000sqft	0.00	156,304.00	0
Apartments Mid Rise	480.00	Dwelling Unit	2.60	482,397.00	1373

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	5			<b>Operational Year</b>	2027
<b>Utility Company</b>	Peninsula Clean Energy				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Project is in San Mateo County, Construction Model Only

Land Use - APARTMENTS: 480 Units + 477,197 sqft (Rentable + amenities), + 5,200 sqft decks. NON-ASPHALT (Open Space): 156,304 sqft. PARKING: 614 spaces + 290,427 sqft of floor surface area.

Construction Phase - Project Applicant Construction Schedule based on the total workdays per phase and phase start dates

Off-road Equipment - Project Applicant Equipment List

Off-road Equipment - Project Applicant Equipment List

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557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Trips and VMT - EMFAC2017 for construction truck and hauling emissions post model

Demolition - Demolish 49,388 sqft of building

Grading - No hauling volumes for site preparation or grading

Energy Use -

Construction Off-road Equipment Mitigation - BMPs from BAAQMD for construction dust, Tier 4i engines for NOx

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	FuelType	Diesel	Electrical
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	10.00	200.00
tblConstructionPhase	NumDays	220.00	600.00
tblConstructionPhase	NumDays	6.00	40.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	1/11/2024	10/3/2024
tblConstructionPhase	PhaseEndDate	12/14/2023	5/29/2025
tblConstructionPhase	PhaseEndDate	2/9/2023	3/29/2023
tblConstructionPhase	PhaseEndDate	12/28/2023	2/8/2024
tblConstructionPhase	PhaseEndDate	2/1/2023	2/3/2023
tblConstructionPhase	PhaseEndDate	2/9/2023	3/9/2023
tblEnergyUse	T24E	90.83	426.45
tblEnergyUse	T24E	3.50	3.92
tblEnergyUse	T24NG	5,828.01	6,115.43
tblFleetMix	HHD	1.9310e-003	6.7110e-003
tblFleetMix	HHD	1.9310e-003	6.7110e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblFleetMix	HHD	1.9310e-003	6.7110e-003
tblFleetMix	LDA	0.45	0.46
tblFleetMix	LDA	0.45	0.46
tblFleetMix	LDA	0.45	0.46
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT2	0.24	0.27
tblFleetMix	LDT2	0.24	0.27
tblFleetMix	LDT2	0.24	0.27
tblFleetMix	LHD1	0.03	0.02
tblFleetMix	LHD1	0.03	0.02
tblFleetMix	LHD1	0.03	0.02
tblFleetMix	LHD2	6.7280e-003	7.4090e-003
tblFleetMix	LHD2	6.7280e-003	7.4090e-003
tblFleetMix	LHD2	6.7280e-003	7.4090e-003
tblFleetMix	MCY	0.03	9.4120e-003
tblFleetMix	MCY	0.03	9.4120e-003
tblFleetMix	MCY	0.03	9.4120e-003
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MDV	0.15	0.14
tblFleetMix	MH	2.7630e-003	8.5600e-004
tblFleetMix	MH	2.7630e-003	8.5600e-004
tblFleetMix	MH	2.7630e-003	8.5600e-004
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	MHD	0.01	0.03
tblFleetMix	OBUS	1.4050e-003	4.3810e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblFleetMix	OBUS	1.4050e-003	4.3810e-003
tblFleetMix	OBUS	1.4050e-003	4.3810e-003
tblFleetMix	SBUS	4.2700e-004	5.5600e-004
tblFleetMix	SBUS	4.2700e-004	5.5600e-004
tblFleetMix	SBUS	4.2700e-004	5.5600e-004
tblFleetMix	UBUS	5.3700e-004	2.9810e-003
tblFleetMix	UBUS	5.3700e-004	2.9810e-003
tblFleetMix	UBUS	5.3700e-004	2.9810e-003
tblLandUse	LandUseSquareFeet	245,600.00	290,427.00
tblLandUse	LandUseSquareFeet	156,300.00	156,304.00
tblLandUse	LandUseSquareFeet	480,000.00	482,397.00
tblLandUse	LotAcreage	5.53	0.00
tblLandUse	LotAcreage	3.59	0.00
tblLandUse	LotAcreage	12.63	2.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	1.50
tblOffRoadEquipment	UsageHours	8.00	3.80
tblOffRoadEquipment	UsageHours	8.00	6.00

## 557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblOffRoadEquipment	UsageHours	8.00	4.40
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	1.00
tblOffRoadEquipment	UsageHours	8.00	1.50
tblOffRoadEquipment	UsageHours	8.00	1.50
tblOffRoadEquipment	UsageHours	8.00	1.50
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.10
tblOffRoadEquipment	UsageHours	6.00	5.30
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	3.50
tblOffRoadEquipment	UsageHours	8.00	1.00
tblTripsAndVMT	HaulingTripNumber	225.00	0.00
tblTripsAndVMT	VendorTripNumber	125.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblTripsAndVMT	WorkerTripNumber	533.00	0.00
tblTripsAndVMT	WorkerTripNumber	107.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleEF	HHD	0.03	0.14
tblVehicleEF	HHD	0.18	0.27
tblVehicleEF	HHD	3.0000e-006	0.06
tblVehicleEF	HHD	5.36	1.21
tblVehicleEF	HHD	1.00	3.08
tblVehicleEF	HHD	0.04	12.39
tblVehicleEF	HHD	904.96	2,656.92
tblVehicleEF	HHD	1,515.89	1,716.80



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	HHD	0.31	38.24
tblVehicleEF	HHD	5.14	11.61
tblVehicleEF	HHD	2.92	2.31
tblVehicleEF	HHD	2.40	15.63
tblVehicleEF	HHD	3.3020e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	6.6820e-003
tblVehicleEF	HHD	3.0000e-006	4.1400e-004
tblVehicleEF	HHD	3.1590e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7340e-003	8.4960e-003
tblVehicleEF	HHD	0.02	6.3900e-003
tblVehicleEF	HHD	2.0000e-006	3.8000e-004
tblVehicleEF	HHD	5.0000e-006	2.1100e-004
tblVehicleEF	HHD	2.4400e-004	0.01
tblVehicleEF	HHD	0.36	0.28
tblVehicleEF	HHD	4.0000e-006	1.6000e-004
tblVehicleEF	HHD	0.03	0.10
tblVehicleEF	HHD	1.1400e-004	1.7720e-003
tblVehicleEF	HHD	1.4000e-005	0.22
tblVehicleEF	HHD	8.0340e-003	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	3.0000e-006	5.8300e-004
tblVehicleEF	HHD	5.0000e-006	2.1100e-004
tblVehicleEF	HHD	2.4400e-004	0.01
tblVehicleEF	HHD	0.42	0.34
tblVehicleEF	HHD	4.0000e-006	1.6000e-004
tblVehicleEF	HHD	0.22	0.38

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	HHD	1.1400e-004	1.7720e-003
tblVehicleEF	HHD	1.6000e-005	0.24
tblVehicleEF	HHD	0.04	0.13
tblVehicleEF	HHD	0.18	0.27
tblVehicleEF	HHD	3.0000e-006	0.05
tblVehicleEF	HHD	5.27	0.88
tblVehicleEF	HHD	1.01	3.15
tblVehicleEF	HHD	0.04	11.34
tblVehicleEF	HHD	898.80	2,814.77
tblVehicleEF	HHD	1,515.90	1,716.80
tblVehicleEF	HHD	0.30	38.24
tblVehicleEF	HHD	4.96	11.98
tblVehicleEF	HHD	2.81	2.21
tblVehicleEF	HHD	2.40	15.56
tblVehicleEF	HHD	2.8550e-003	9.9780e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	6.6820e-003
tblVehicleEF	HHD	3.0000e-006	4.1400e-004
tblVehicleEF	HHD	2.7320e-003	9.5470e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7340e-003	8.4960e-003
tblVehicleEF	HHD	0.02	6.3900e-003
tblVehicleEF	HHD	2.0000e-006	3.8000e-004
tblVehicleEF	HHD	1.2000e-005	4.9300e-004
tblVehicleEF	HHD	2.6100e-004	0.01
tblVehicleEF	HHD	0.38	0.26
tblVehicleEF	HHD	6.0000e-006	2.6700e-004
tblVehicleEF	HHD	0.03	0.10

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL  
San Mateo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	169.00	Space	0.00	62,685.00	0
Other Non-Asphalt Surfaces	44.48	1000sqft	0.00	44,480.00	0
Parking Lot	339.00	Space	0.00	159,567.00	0
Health Club	105.37	1000sqft	3.80	105,368.00	0
Recreational Swimming Pool	11.81	1000sqft	0.00	11,807.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	5			<b>Operational Year</b>	2027
<b>Utility Company</b>	Peninsula Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics - Construction AQ/GHG Model for Villasport fitness center

Land Use - INDOOR: 97,101 sf + 2,859 cafe sf + 5,408 play area. POOL: 11,807 sf. NON-ASPHALT: 31,135 sf pool deck + 13,345 sf circulation. PARKING LOT: 339

Construction Phase - Project Applicant Schedule based on Total Work Dats per Phase and the Start Date

Off-road Equipment - Project Applicant Equipment List, aerial lift proposed as electric, run as diesel for unmitigated

Off-road Equipment - Project Applicant Equipment List

Off-road Equipment - Project Applicant Equipment List

Off-road Equipment - Project Applicant Equipment List

Off-road Equipment - Project Applicant Equipment List



557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	18.00	105.00
tblConstructionPhase	NumDays	230.00	215.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	8.00	36.00
tblConstructionPhase	NumDays	18.00	40.00
tblConstructionPhase	NumDays	5.00	28.00
tblConstructionPhase	PhaseEndDate	2/22/2024	6/24/2024
tblConstructionPhase	PhaseEndDate	1/3/2024	12/13/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	3/3/2023
tblConstructionPhase	PhaseEndDate	2/15/2023	3/27/2023
tblConstructionPhase	PhaseEndDate	1/29/2024	2/28/2024
tblConstructionPhase	PhaseEndDate	2/3/2023	3/8/2023
tblConstructionPhase	PhaseEndDate	2/15/2023	5/17/2023
tblEnergyUse	T24E	3.50	3.92
tblEnergyUse	T24E	1.08	1.21
tblEnergyUse	T24NG	17.67	17.85
tblGrading	MaterialImported	0.00	26,800.00
tblGrading	MaterialImported	0.00	37,000.00
tblLandUse	LandUseSquareFeet	67,600.00	62,685.00
tblLandUse	LandUseSquareFeet	135,600.00	159,567.00
tblLandUse	LandUseSquareFeet	105,370.00	105,368.00
tblLandUse	LandUseSquareFeet	11,810.00	11,807.00

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblLandUse	LotAcreage	1.52	0.00
tblLandUse	LotAcreage	1.02	0.00
tblLandUse	LotAcreage	3.05	0.00
tblLandUse	LotAcreage	2.42	3.80
tblLandUse	LotAcreage	0.27	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	1,799.00	0.00
tblTripsAndVMT	HaulingTripNumber	4,625.00	0.00
tblTripsAndVMT	HaulingTripNumber	3,350.00	0.00
tblTripsAndVMT	VendorTripNumber	63.00	0.00

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblTripsAndVMT	WorkerTripNumber	25.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	161.00	0.00
tblTripsAndVMT	WorkerTripNumber	32.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	WD_TR	28.82	33.82

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.5439	4.8003	4.3133	8.2500e-003	0.8267	0.2093	1.0361	0.3160	0.1959	0.5119	0.0000	700.5819	700.5819	0.1939	0.0000	705.4301
2024	0.6305	0.2020	0.3041	4.7000e-004	0.0000	8.8600e-003	8.8600e-003	0.0000	8.2000e-003	8.2000e-003	0.0000	40.7923	40.7923	0.0128	0.0000	41.1121
<b>Maximum</b>	<b>0.6305</b>	<b>4.8003</b>	<b>4.3133</b>	<b>8.2500e-003</b>	<b>0.8267</b>	<b>0.2093</b>	<b>1.0361</b>	<b>0.3160</b>	<b>0.1959</b>	<b>0.5119</b>	<b>0.0000</b>	<b>700.5819</b>	<b>700.5819</b>	<b>0.1939</b>	<b>0.0000</b>	<b>705.4301</b>

**Mitigated Construction**



557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1434	3.2823	5.0692	8.2500e-003	0.3720	0.0408	0.4129	0.0711	0.0408	0.1119	0.0000	700.5810	700.5810	0.1939	0.0000	705.4293
2024	0.6185	0.2054	0.3356	4.7000e-004	0.0000	2.6100e-003	2.6100e-003	0.0000	2.6100e-003	2.6100e-003	0.0000	40.7923	40.7923	0.0128	0.0000	41.1120
<b>Maximum</b>	<b>0.6185</b>	<b>3.2823</b>	<b>5.0692</b>	<b>8.2500e-003</b>	<b>0.3720</b>	<b>0.0408</b>	<b>0.4129</b>	<b>0.0711</b>	<b>0.0408</b>	<b>0.1119</b>	<b>0.0000</b>	<b>700.5810</b>	<b>700.5810</b>	<b>0.1939</b>	<b>0.0000</b>	<b>705.4293</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>35.12</b>	<b>30.28</b>	<b>-17.05</b>	<b>0.00</b>	<b>55.00</b>	<b>80.09</b>	<b>60.24</b>	<b>77.50</b>	<b>78.71</b>	<b>77.97</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>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	3.0130	1.6369
2	4-1-2023	6-30-2023	0.9478	0.7504
3	7-1-2023	9-30-2023	0.7847	0.5825
4	10-1-2023	12-31-2023	0.6312	0.4685
5	1-1-2024	3-31-2024	0.4626	0.4411
6	4-1-2024	6-30-2024	0.3699	0.3828
		Highest	3.0130	1.6369

**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					

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Area	0.4942	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127
Energy	0.0141	0.1278	0.1074	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922
Mobile	1.0951	0.9046	9.8337	0.0189	2.2389	0.0123	2.2513	0.5981	0.0115	0.6095	0.0000	1,739.6023	1,739.6023	0.1302	0.0826	1,767.4605
Waste						0.0000	0.0000		0.0000	0.0000	135.5838	0.0000	135.5838	8.0128	0.0000	335.9030
Water						0.0000	0.0000		0.0000	0.0000	2.1987	0.0000	2.1987	0.2258	5.3300e-003	9.4334
<b>Total</b>	<b>1.6034</b>	<b>1.0325</b>	<b>9.9472</b>	<b>0.0196</b>	<b>2.2389</b>	<b>0.0221</b>	<b>2.2610</b>	<b>0.5981</b>	<b>0.0212</b>	<b>0.6193</b>	<b>137.7824</b>	<b>1,878.7795</b>	<b>2,016.5619</b>	<b>8.3715</b>	<b>0.0904</b>	<b>2,252.8019</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	tons/yr										MT/yr					
Area	0.4942	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127
Energy	0.0141	0.1278	0.1074	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922
Mobile	1.0951	0.9046	9.8337	0.0189	2.2389	0.0123	2.2513	0.5981	0.0115	0.6095	0.0000	1,739.6023	1,739.6023	0.1302	0.0826	1,767.4605
Waste						0.0000	0.0000		0.0000	0.0000	135.5838	0.0000	135.5838	8.0128	0.0000	335.9030
Water						0.0000	0.0000		0.0000	0.0000	2.1987	0.0000	2.1987	0.2258	5.3300e-003	9.4334
<b>Total</b>	<b>1.6034</b>	<b>1.0325</b>	<b>9.9472</b>	<b>0.0196</b>	<b>2.2389</b>	<b>0.0221</b>	<b>2.2610</b>	<b>0.5981</b>	<b>0.0212</b>	<b>0.6193</b>	<b>137.7824</b>	<b>1,878.7795</b>	<b>2,016.5619</b>	<b>8.3715</b>	<b>0.0904</b>	<b>2,252.8019</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
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557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

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
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**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	3/3/2023	5	45	
2	Site Preparation	Site Preparation	1/28/2023	3/8/2023	5	28	
3	Grading	Grading	2/4/2023	3/27/2023	5	36	
4	Trenching	Trenching	2/16/2023	5/17/2023	5	65	
5	Building Construction	Building Construction	2/16/2023	12/13/2023	5	215	
6	Paving	Paving	1/4/2024	2/28/2024	5	40	
7	Architectural Coating	Architectural Coating	1/30/2024	6/24/2024	5	105	

**Acres of Grading (Site Preparation Phase): 56**

**Acres of Grading (Grading Phase): 198**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 159,548; Non-Residential Outdoor: 53,183; Striped Parking Area: 16,004**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	3	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	2	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	3	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching	Excavators	2	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	0	6.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	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
Demolition	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1946	0.0000	0.1946	0.0295	0.0000	0.0295	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0808	0.7710	0.6946	1.3500e-003		0.0360	0.0360		0.0336	0.0336	0.0000	117.7713	117.7713	0.0315	0.0000	118.5577
<b>Total</b>	<b>0.0808</b>	<b>0.7710</b>	<b>0.6946</b>	<b>1.3500e-003</b>	<b>0.1946</b>	<b>0.0360</b>	<b>0.2306</b>	<b>0.0295</b>	<b>0.0336</b>	<b>0.0630</b>	<b>0.0000</b>	<b>117.7713</b>	<b>117.7713</b>	<b>0.0315</b>	<b>0.0000</b>	<b>118.5577</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
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557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					0.0876	0.0000	0.0876	6.6300e-003	0.0000	6.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0220	0.4668	0.8493	1.3500e-003		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003	0.0000	117.7711	117.7711	0.0315	0.0000	118.5575
<b>Total</b>	<b>0.0220</b>	<b>0.4668</b>	<b>0.8493</b>	<b>1.3500e-003</b>	<b>0.0876</b>	<b>2.1200e-003</b>	<b>0.0897</b>	<b>6.6300e-003</b>	<b>2.1200e-003</b>	<b>8.7500e-003</b>	<b>0.0000</b>	<b>117.7711</b>	<b>117.7711</b>	<b>0.0315</b>	<b>0.0000</b>	<b>118.5575</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category	tons/yr										MT/yr					
	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	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2004	0.0000	0.2004	0.0962	0.0000	0.0962	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.3728	0.1969	5.1000e-004		0.0153	0.0153		0.0141	0.0141	0.0000	44.9457	44.9457	0.0145	0.0000	45.3091
<b>Total</b>	<b>0.0342</b>	<b>0.3728</b>	<b>0.1969</b>	<b>5.1000e-004</b>	<b>0.2004</b>	<b>0.0153</b>	<b>0.2157</b>	<b>0.0962</b>	<b>0.0141</b>	<b>0.1103</b>	<b>0.0000</b>	<b>44.9457</b>	<b>44.9457</b>	<b>0.0145</b>	<b>0.0000</b>	<b>45.3091</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					0.0902	0.0000	0.0902	0.0217	0.0000	0.0217	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.8800e-003	0.1497	0.2909	5.1000e-004		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	44.9456	44.9456	0.0145	0.0000	45.3090
<b>Total</b>	<b>8.8800e-003</b>	<b>0.1497</b>	<b>0.2909</b>	<b>5.1000e-004</b>	<b>0.0902</b>	<b>8.4000e-004</b>	<b>0.0910</b>	<b>0.0217</b>	<b>8.4000e-004</b>	<b>0.0225</b>	<b>0.0000</b>	<b>44.9456</b>	<b>44.9456</b>	<b>0.0145</b>	<b>0.0000</b>	<b>45.3090</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4317	0.0000	0.4317	0.1903	0.0000	0.1903	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1028	1.0831	0.7175	1.7600e-003		0.0444	0.0444		0.0408	0.0408	0.0000	154.7185	154.7185	0.0500	0.0000	155.9695
<b>Total</b>	<b>0.1028</b>	<b>1.0831</b>	<b>0.7175</b>	<b>1.7600e-003</b>	<b>0.4317</b>	<b>0.0444</b>	<b>0.4761</b>	<b>0.1903</b>	<b>0.0408</b>	<b>0.2312</b>	<b>0.0000</b>	<b>154.7185</b>	<b>154.7185</b>	<b>0.0500</b>	<b>0.0000</b>	<b>155.9695</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					0.1943	0.0000	0.1943	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0284	0.5070	0.9906	1.7600e-003		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	154.7183	154.7183	0.0500	0.0000	155.9693
<b>Total</b>	<b>0.0284</b>	<b>0.5070</b>	<b>0.9906</b>	<b>1.7600e-003</b>	<b>0.1943</b>	<b>2.8800e-003</b>	<b>0.1971</b>	<b>0.0428</b>	<b>2.8800e-003</b>	<b>0.0457</b>	<b>0.0000</b>	<b>154.7183</b>	<b>154.7183</b>	<b>0.0500</b>	<b>0.0000</b>	<b>155.9693</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
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557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.5 Trenching - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0319	0.3003	0.5018	7.4000e-004		0.0148	0.0148		0.0136	0.0136	0.0000	65.0559	65.0559	0.0210	0.0000	65.5819
<b>Total</b>	<b>0.0319</b>	<b>0.3003</b>	<b>0.5018</b>	<b>7.4000e-004</b>		<b>0.0148</b>	<b>0.0148</b>		<b>0.0136</b>	<b>0.0136</b>	<b>0.0000</b>	<b>65.0559</b>	<b>65.0559</b>	<b>0.0210</b>	<b>0.0000</b>	<b>65.5819</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					

















557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	1.0951	0.9046	9.8337	0.0189	2.2389	0.0123	2.2513	0.5981	0.0115	0.6095	0.0000	1,739.6023	1,739.6023	0.1302	0.0826	1,767.4605
Unmitigated	1.0951	0.9046	9.8337	0.0189	2.2389	0.0123	2.2513	0.5981	0.0115	0.6095	0.0000	1,739.6023	1,739.6023	0.1302	0.0826	1,767.4605

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Health Club	3,469.83	2,199.07	2816.54	5,519,841	5,519,841
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	399.41	107.47	160.62	584,825	584,825
<b>Total</b>	<b>3,869.25</b>	<b>2,306.54</b>	<b>2,977.16</b>	<b>6,104,666</b>	<b>6,104,666</b>

**4.3 Trip Type Information**



557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Electricity Unmitigated					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0141	0.1278	0.1074	7.7000e-004	9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922
NaturalGas Unmitigated	0.0141	0.1278	0.1074	7.7000e-004	9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	2.60786e+006	0.0141	0.1278	0.1074	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0141</b>	<b>0.1278</b>	<b>0.1074</b>	<b>7.7000e-004</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>139.1652</b>	<b>139.1652</b>	<b>2.6700e-003</b>	<b>2.5500e-003</b>	<b>139.9922</b>

Mitigated

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health Club	2.60786e+006	0.0141	0.1278	0.1074	7.7000e-004		9.7200e-003	9.7200e-003		9.7200e-003	9.7200e-003	0.0000	139.1652	139.1652	2.6700e-003	2.5500e-003	139.9922	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0141</b>	<b>0.1278</b>	<b>0.1074</b>	<b>7.7000e-004</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>		<b>9.7200e-003</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>139.1652</b>	<b>139.1652</b>	<b>2.6700e-003</b>	<b>2.5500e-003</b>	<b>139.9922</b>	

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	367334	0.0000	0.0000	0.0000	0.0000
Health Club	796582	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	55848.4	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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>



557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Category	tons/yr									MT/yr						
Mitigated	0.4942	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127
Unmitigated	0.4942	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0610					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7000e-004	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127
<b>Total</b>	<b>0.4943</b>	<b>6.0000e-005</b>	<b>6.1400e-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>0.0000</b>	<b>0.0120</b>	<b>0.0120</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0127</b>

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					



557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Architectural Coating	0.0610					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.4327					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	5.7000e-004	6.0000e-005	6.1400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0120	0.0120	3.0000e-005	0.0000	0.0127
<b>Total</b>	<b>0.4943</b>	<b>6.0000e-005</b>	<b>6.1400e-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>0.0000</b>	<b>0.0120</b>	<b>0.0120</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0127</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.1987	0.2258	5.3300e-003	9.4334
Unmitigated	2.1987	0.2258	5.3300e-003	9.4334

**7.2 Water by Land Use**

**Unmitigated**

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	6.23191 / 3.81956	1.9771	0.2031	4.7900e-003	8.4826
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.698481 / 0.428101	0.2216	0.0228	5.4000e-004	0.9507
<b>Total</b>		<b>2.1987</b>	<b>0.2258</b>	<b>5.3300e-003</b>	<b>9.4334</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	6.23191 / 3.81956	1.9771	0.2031	4.7900e-003	8.4826
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.698481 / 0.428101	0.2216	0.0228	5.4000e-004	0.9507
<b>Total</b>		<b>2.1987</b>	<b>0.2258</b>	<b>5.3300e-003</b>	<b>9.4334</b>

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	135.5838	8.0128	0.0000	335.9030
Unmitigated	135.5838	8.0128	0.0000	335.9030

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	600.61	121.9184	7.2052	0.0000	302.0477
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Recreational Swimming Pool	67.32	13.6654	0.8076	0.0000	33.8553
<b>Total</b>		<b>135.5838</b>	<b>8.0128</b>	<b>0.0000</b>	<b>335.9030</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Health Club	600.61	121.9184	7.2052	0.0000	302.0477
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	67.32	13.6654	0.8076	0.0000	33.8553
<b>Total</b>		<b>135.5838</b>	<b>8.0128</b>	<b>0.0000</b>	<b>335.9030</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

557 E. Bayshore - Villasport AQ/GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

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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557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	HHD	1.0800e-004	1.6720e-003
tblVehicleEF	HHD	1.3000e-005	0.21
tblVehicleEF	HHD	7.9760e-003	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	3.0000e-006	5.6600e-004
tblVehicleEF	HHD	1.2000e-005	4.9300e-004
tblVehicleEF	HHD	2.6100e-004	0.01
tblVehicleEF	HHD	0.45	0.32
tblVehicleEF	HHD	6.0000e-006	2.6700e-004
tblVehicleEF	HHD	0.22	0.38
tblVehicleEF	HHD	1.0800e-004	1.6720e-003
tblVehicleEF	HHD	1.5000e-005	0.23
tblVehicleEF	HHD	0.03	0.15
tblVehicleEF	HHD	0.18	0.27
tblVehicleEF	HHD	3.0000e-006	0.06
tblVehicleEF	HHD	5.49	1.67
tblVehicleEF	HHD	1.00	3.04
tblVehicleEF	HHD	0.04	13.22
tblVehicleEF	HHD	913.47	2,438.93
tblVehicleEF	HHD	1,515.89	1,716.80
tblVehicleEF	HHD	0.31	38.24
tblVehicleEF	HHD	5.38	11.09
tblVehicleEF	HHD	2.96	2.35
tblVehicleEF	HHD	2.40	15.67
tblVehicleEF	HHD	3.9180e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	6.6820e-003
tblVehicleEF	HHD	3.0000e-006	4.1400e-004

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	HHD	3.7490e-003	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7340e-003	8.4960e-003
tblVehicleEF	HHD	0.02	6.3900e-003
tblVehicleEF	HHD	2.0000e-006	3.8000e-004
tblVehicleEF	HHD	3.0000e-006	1.4000e-004
tblVehicleEF	HHD	2.5400e-004	0.01
tblVehicleEF	HHD	0.33	0.30
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	0.03	0.10
tblVehicleEF	HHD	1.2900e-004	1.9990e-003
tblVehicleEF	HHD	1.5000e-005	0.23
tblVehicleEF	HHD	8.1120e-003	0.02
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	3.0000e-006	5.9700e-004
tblVehicleEF	HHD	3.0000e-006	1.4000e-004
tblVehicleEF	HHD	2.5400e-004	0.01
tblVehicleEF	HHD	0.39	0.37
tblVehicleEF	HHD	2.0000e-006	7.2000e-005
tblVehicleEF	HHD	0.22	0.38
tblVehicleEF	HHD	1.2900e-004	1.9990e-003
tblVehicleEF	HHD	1.6000e-005	0.26
tblVehicleEF	LDA	1.1020e-003	2.2070e-003
tblVehicleEF	LDA	0.03	3.1270e-003
tblVehicleEF	LDA	0.42	0.35
tblVehicleEF	LDA	1.86	0.80
tblVehicleEF	LDA	211.07	193.17
tblVehicleEF	LDA	44.97	46.29
tblVehicleEF	LDA	0.02	0.03

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDA	0.14	0.04
tblVehicleEF	LDA	1.0640e-003	1.3650e-003
tblVehicleEF	LDA	1.4700e-003	2.0590e-003
tblVehicleEF	LDA	9.7900e-004	1.2570e-003
tblVehicleEF	LDA	1.3520e-003	1.8930e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	3.9800e-003	5.5370e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.15	0.04
tblVehicleEF	LDA	2.0880e-003	1.9330e-003
tblVehicleEF	LDA	4.4500e-004	4.7600e-004
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.03	0.02
tblVehicleEF	LDA	5.7830e-003	8.0520e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.16	0.05
tblVehicleEF	LDA	1.2240e-003	2.4100e-003
tblVehicleEF	LDA	0.03	2.6330e-003
tblVehicleEF	LDA	0.47	0.40
tblVehicleEF	LDA	1.47	0.64
tblVehicleEF	LDA	224.11	205.45
tblVehicleEF	LDA	44.26	46.29
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.12	0.04
tblVehicleEF	LDA	1.0640e-003	1.3650e-003
tblVehicleEF	LDA	1.4700e-003	2.0590e-003



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDA	9.7900e-004	1.2570e-003
tblVehicleEF	LDA	1.3520e-003	1.8930e-003
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	4.3390e-003	6.0390e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.12	0.04
tblVehicleEF	LDA	2.2170e-003	2.0560e-003
tblVehicleEF	LDA	4.3800e-004	4.7300e-004
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	6.3070e-003	8.7850e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.14	0.04
tblVehicleEF	LDA	1.0690e-003	2.1670e-003
tblVehicleEF	LDA	0.04	3.4770e-003
tblVehicleEF	LDA	0.42	0.35
tblVehicleEF	LDA	2.14	0.92
tblVehicleEF	LDA	210.27	192.41
tblVehicleEF	LDA	45.46	46.29
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.04
tblVehicleEF	LDA	1.0640e-003	1.3650e-003
tblVehicleEF	LDA	1.4700e-003	2.0590e-003
tblVehicleEF	LDA	9.7900e-004	1.2570e-003
tblVehicleEF	LDA	1.3520e-003	1.8930e-003
tblVehicleEF	LDA	0.01	0.01

## 557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.4650e-003
tblVehicleEF	LDA	3.9100e-003	5.4390e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.16	0.05
tblVehicleEF	LDA	2.0800e-003	1.9250e-003
tblVehicleEF	LDA	4.5000e-004	4.7800e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	9.4650e-003
tblVehicleEF	LDA	5.6800e-003	7.9100e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.18	0.05
tblVehicleEF	LDT1	1.6580e-003	3.3200e-003
tblVehicleEF	LDT1	0.04	4.4930e-003
tblVehicleEF	LDT1	0.52	0.50
tblVehicleEF	LDT1	1.97	1.14
tblVehicleEF	LDT1	250.36	243.62
tblVehicleEF	LDT1	53.33	57.55
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.15	0.06
tblVehicleEF	LDT1	1.2370e-003	1.6630e-003
tblVehicleEF	LDT1	1.6830e-003	2.4620e-003
tblVehicleEF	LDT1	1.1370e-003	1.5290e-003
tblVehicleEF	LDT1	1.5470e-003	2.2640e-003
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	6.4780e-003	8.2280e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.16	0.06
tblVehicleEF	LDT1	2.4770e-003	2.4400e-003
tblVehicleEF	LDT1	5.2800e-004	5.9400e-004
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.08	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	9.4510e-003	0.01
tblVehicleEF	LDT1	0.06	0.10
tblVehicleEF	LDT1	0.18	0.07
tblVehicleEF	LDT1	1.8290e-003	3.6080e-003
tblVehicleEF	LDT1	0.03	3.7660e-003
tblVehicleEF	LDT1	0.59	0.56
tblVehicleEF	LDT1	1.56	0.90
tblVehicleEF	LDT1	263.53	258.63
tblVehicleEF	LDT1	52.58	57.55
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.13	0.05
tblVehicleEF	LDT1	1.2370e-003	1.6630e-003
tblVehicleEF	LDT1	1.6830e-003	2.4620e-003
tblVehicleEF	LDT1	1.1370e-003	1.5290e-003
tblVehicleEF	LDT1	1.5470e-003	2.2640e-003
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	7.0340e-003	8.9400e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.14	0.05
tblVehicleEF	LDT1	2.6080e-003	2.5910e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDT1	5.2000e-004	5.9000e-004
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.15	0.06
tblVehicleEF	LDT1	1.6130e-003	3.2660e-003
tblVehicleEF	LDT1	0.04	5.0080e-003
tblVehicleEF	LDT1	0.52	0.50
tblVehicleEF	LDT1	2.26	1.30
tblVehicleEF	LDT1	249.55	242.70
tblVehicleEF	LDT1	53.85	57.55
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.16	0.06
tblVehicleEF	LDT1	1.2370e-003	1.6630e-003
tblVehicleEF	LDT1	1.6830e-003	2.4620e-003
tblVehicleEF	LDT1	1.1370e-003	1.5290e-003
tblVehicleEF	LDT1	1.5470e-003	2.2640e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	6.3720e-003	8.0940e-003
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.18	0.07
tblVehicleEF	LDT1	2.4700e-003	2.4310e-003
tblVehicleEF	LDT1	5.3300e-004	5.9700e-004
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.08	0.11

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	9.2960e-003	0.01
tblVehicleEF	LDT1	0.07	0.12
tblVehicleEF	LDT1	0.20	0.07
tblVehicleEF	LDT2	1.6310e-003	3.0730e-003
tblVehicleEF	LDT2	0.04	3.4430e-003
tblVehicleEF	LDT2	0.51	0.48
tblVehicleEF	LDT2	2.38	0.94
tblVehicleEF	LDT2	259.00	279.37
tblVehicleEF	LDT2	55.53	65.36
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.17	0.05
tblVehicleEF	LDT2	1.1820e-003	1.5780e-003
tblVehicleEF	LDT2	1.5510e-003	2.3330e-003
tblVehicleEF	LDT2	1.0890e-003	1.4510e-003
tblVehicleEF	LDT2	1.4260e-003	2.1450e-003
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	6.1260e-003	7.6290e-003
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.19	0.05
tblVehicleEF	LDT2	2.5620e-003	2.7960e-003
tblVehicleEF	LDT2	5.5000e-004	6.6900e-004
tblVehicleEF	LDT2	0.03	0.02
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.04	0.02
tblVehicleEF	LDT2	8.9030e-003	0.01
tblVehicleEF	LDT2	0.05	0.06

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDT2	0.21	0.05
tblVehicleEF	LDT2	1.8060e-003	3.3530e-003
tblVehicleEF	LDT2	0.04	2.9140e-003
tblVehicleEF	LDT2	0.58	0.54
tblVehicleEF	LDT2	1.88	0.75
tblVehicleEF	LDT2	271.31	296.63
tblVehicleEF	LDT2	54.63	65.36
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.15	0.05
tblVehicleEF	LDT2	1.1820e-003	1.5780e-003
tblVehicleEF	LDT2	1.5510e-003	2.3330e-003
tblVehicleEF	LDT2	1.0890e-003	1.4510e-003
tblVehicleEF	LDT2	1.4260e-003	2.1450e-003
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	6.6640e-003	8.3210e-003
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.16	0.04
tblVehicleEF	LDT2	2.6840e-003	2.9700e-003
tblVehicleEF	LDT2	5.4100e-004	6.6600e-004
tblVehicleEF	LDT2	0.08	0.05
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.06	0.04
tblVehicleEF	LDT2	9.6870e-003	0.01
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.18	0.04
tblVehicleEF	LDT2	1.5850e-003	3.0180e-003
tblVehicleEF	LDT2	0.05	3.8190e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LDT2	0.51	0.48
tblVehicleEF	LDT2	2.74	1.07
tblVehicleEF	LDT2	258.25	278.31
tblVehicleEF	LDT2	56.16	65.36
tblVehicleEF	LDT2	0.03	0.05
tblVehicleEF	LDT2	0.18	0.06
tblVehicleEF	LDT2	1.1820e-003	1.5780e-003
tblVehicleEF	LDT2	1.5510e-003	2.3330e-003
tblVehicleEF	LDT2	1.0890e-003	1.4510e-003
tblVehicleEF	LDT2	1.4260e-003	2.1450e-003
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	6.0200e-003	7.4930e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.21	0.05
tblVehicleEF	LDT2	2.5550e-003	2.7860e-003
tblVehicleEF	LDT2	5.5600e-004	6.7100e-004
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	8.7480e-003	0.01
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.23	0.06
tblVehicleEF	LHD1	4.3630e-003	4.0600e-003
tblVehicleEF	LHD1	5.2110e-003	9.0290e-003
tblVehicleEF	LHD1	8.9570e-003	0.01
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.46	0.61

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD1	0.92	1.71
tblVehicleEF	LHD1	8.36	8.95
tblVehicleEF	LHD1	723.35	644.30
tblVehicleEF	LHD1	10.60	27.11
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	0.27	0.46
tblVehicleEF	LHD1	0.23	0.65
tblVehicleEF	LHD1	8.8200e-004	8.4300e-004
tblVehicleEF	LHD1	9.8440e-003	0.01
tblVehicleEF	LHD1	6.5010e-003	9.8630e-003
tblVehicleEF	LHD1	2.1400e-004	6.6000e-004
tblVehicleEF	LHD1	8.4400e-004	8.0700e-004
tblVehicleEF	LHD1	2.4610e-003	2.6010e-003
tblVehicleEF	LHD1	6.1750e-003	9.4030e-003
tblVehicleEF	LHD1	1.9600e-004	6.0600e-004
tblVehicleEF	LHD1	9.7200e-004	1.3170e-003
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	6.4300e-004	8.7100e-004
tblVehicleEF	LHD1	0.07	0.09
tblVehicleEF	LHD1	0.14	0.23
tblVehicleEF	LHD1	0.04	0.15
tblVehicleEF	LHD1	8.1000e-005	8.9000e-005
tblVehicleEF	LHD1	7.0580e-003	6.2960e-003
tblVehicleEF	LHD1	1.0500e-004	3.0200e-004
tblVehicleEF	LHD1	9.7200e-004	1.3170e-003
tblVehicleEF	LHD1	0.04	0.06
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	6.4300e-004	8.7100e-004



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD1	0.08	0.11
tblVehicleEF	LHD1	0.14	0.23
tblVehicleEF	LHD1	0.05	0.16
tblVehicleEF	LHD1	4.3760e-003	4.0600e-003
tblVehicleEF	LHD1	5.3000e-003	9.2120e-003
tblVehicleEF	LHD1	8.4540e-003	0.01
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.47	0.62
tblVehicleEF	LHD1	0.86	1.58
tblVehicleEF	LHD1	8.36	8.95
tblVehicleEF	LHD1	723.36	644.30
tblVehicleEF	LHD1	10.49	27.11
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	0.25	0.44
tblVehicleEF	LHD1	0.21	0.60
tblVehicleEF	LHD1	8.8200e-004	8.4300e-004
tblVehicleEF	LHD1	9.8440e-003	0.01
tblVehicleEF	LHD1	6.5010e-003	9.8630e-003
tblVehicleEF	LHD1	2.1400e-004	6.6000e-004
tblVehicleEF	LHD1	8.4400e-004	8.0700e-004
tblVehicleEF	LHD1	2.4610e-003	2.6010e-003
tblVehicleEF	LHD1	6.1750e-003	9.4030e-003
tblVehicleEF	LHD1	1.9600e-004	6.0600e-004
tblVehicleEF	LHD1	2.3160e-003	3.1010e-003
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.0760e-003	1.4340e-003
tblVehicleEF	LHD1	0.07	0.09
tblVehicleEF	LHD1	0.13	0.22

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD1	0.04	0.14
tblVehicleEF	LHD1	8.1000e-005	8.9000e-005
tblVehicleEF	LHD1	7.0580e-003	6.2960e-003
tblVehicleEF	LHD1	1.0400e-004	3.0000e-004
tblVehicleEF	LHD1	2.3160e-003	3.1010e-003
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.0760e-003	1.4340e-003
tblVehicleEF	LHD1	0.08	0.11
tblVehicleEF	LHD1	0.13	0.22
tblVehicleEF	LHD1	0.04	0.15
tblVehicleEF	LHD1	4.3530e-003	4.0600e-003
tblVehicleEF	LHD1	5.1520e-003	8.9090e-003
tblVehicleEF	LHD1	9.3340e-003	0.01
tblVehicleEF	LHD1	0.18	0.14
tblVehicleEF	LHD1	0.45	0.61
tblVehicleEF	LHD1	0.98	1.82
tblVehicleEF	LHD1	8.36	8.95
tblVehicleEF	LHD1	723.34	644.30
tblVehicleEF	LHD1	10.70	27.11
tblVehicleEF	LHD1	0.04	0.07
tblVehicleEF	LHD1	0.27	0.47
tblVehicleEF	LHD1	0.24	0.68
tblVehicleEF	LHD1	8.8200e-004	8.4300e-004
tblVehicleEF	LHD1	9.8440e-003	0.01
tblVehicleEF	LHD1	6.5010e-003	9.8630e-003
tblVehicleEF	LHD1	2.1400e-004	6.6000e-004
tblVehicleEF	LHD1	8.4400e-004	8.0700e-004
tblVehicleEF	LHD1	2.4610e-003	2.6010e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD1	6.1750e-003	9.4030e-003
tblVehicleEF	LHD1	1.9600e-004	6.0600e-004
tblVehicleEF	LHD1	5.9100e-004	8.1000e-004
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	2.8000e-004	3.8600e-004
tblVehicleEF	LHD1	0.07	0.09
tblVehicleEF	LHD1	0.16	0.25
tblVehicleEF	LHD1	0.05	0.15
tblVehicleEF	LHD1	8.1000e-005	8.9000e-005
tblVehicleEF	LHD1	7.0580e-003	6.2960e-003
tblVehicleEF	LHD1	1.0600e-004	3.0400e-004
tblVehicleEF	LHD1	5.9100e-004	8.1000e-004
tblVehicleEF	LHD1	0.05	0.07
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	2.8000e-004	3.8600e-004
tblVehicleEF	LHD1	0.08	0.11
tblVehicleEF	LHD1	0.16	0.25
tblVehicleEF	LHD1	0.05	0.17
tblVehicleEF	LHD2	2.6770e-003	2.7520e-003
tblVehicleEF	LHD2	5.1540e-003	5.4170e-003
tblVehicleEF	LHD2	5.0690e-003	3.6030e-003
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	0.44	0.44
tblVehicleEF	LHD2	0.53	0.93
tblVehicleEF	LHD2	13.00	13.64
tblVehicleEF	LHD2	701.00	681.62
tblVehicleEF	LHD2	7.00	22.54
tblVehicleEF	LHD2	0.07	0.08

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD2	0.29	0.22
tblVehicleEF	LHD2	0.14	0.29
tblVehicleEF	LHD2	1.4440e-003	1.0950e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	9.3090e-003
tblVehicleEF	LHD2	1.1300e-004	3.7500e-004
tblVehicleEF	LHD2	1.3810e-003	1.0480e-003
tblVehicleEF	LHD2	2.6980e-003	2.7020e-003
tblVehicleEF	LHD2	0.01	8.8830e-003
tblVehicleEF	LHD2	1.0400e-004	3.4400e-004
tblVehicleEF	LHD2	4.9000e-004	3.9500e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.3500e-004	2.8100e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.06	0.04
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2400e-004	1.3300e-004
tblVehicleEF	LHD2	6.7670e-003	6.6240e-003
tblVehicleEF	LHD2	6.9000e-005	2.4100e-004
tblVehicleEF	LHD2	4.9000e-004	3.9500e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.3500e-004	2.8100e-004
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.06	0.04
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	2.6840e-003	2.7520e-003
tblVehicleEF	LHD2	5.1920e-003	5.4640e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD2	4.7850e-003	3.4550e-003
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	0.45	0.44
tblVehicleEF	LHD2	0.49	0.86
tblVehicleEF	LHD2	13.00	13.64
tblVehicleEF	LHD2	701.01	681.62
tblVehicleEF	LHD2	6.94	22.54
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.28	0.21
tblVehicleEF	LHD2	0.13	0.28
tblVehicleEF	LHD2	1.4440e-003	1.0950e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	9.3090e-003
tblVehicleEF	LHD2	1.1300e-004	3.7500e-004
tblVehicleEF	LHD2	1.3810e-003	1.0480e-003
tblVehicleEF	LHD2	2.6980e-003	2.7020e-003
tblVehicleEF	LHD2	0.01	8.8830e-003
tblVehicleEF	LHD2	1.0400e-004	3.4400e-004
tblVehicleEF	LHD2	1.1600e-003	9.2800e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.5900e-004	4.6700e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.06	0.04
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	1.2400e-004	1.3300e-004
tblVehicleEF	LHD2	6.7670e-003	6.6240e-003
tblVehicleEF	LHD2	6.9000e-005	2.4000e-004
tblVehicleEF	LHD2	1.1600e-003	9.2800e-004

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.5900e-004	4.6700e-004
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.06	0.04
tblVehicleEF	LHD2	0.02	0.05
tblVehicleEF	LHD2	2.6710e-003	2.7520e-003
tblVehicleEF	LHD2	5.1290e-003	5.3870e-003
tblVehicleEF	LHD2	5.2810e-003	3.7150e-003
tblVehicleEF	LHD2	0.14	0.12
tblVehicleEF	LHD2	0.44	0.44
tblVehicleEF	LHD2	0.56	0.98
tblVehicleEF	LHD2	13.00	13.64
tblVehicleEF	LHD2	701.00	681.62
tblVehicleEF	LHD2	7.06	22.54
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.30	0.23
tblVehicleEF	LHD2	0.14	0.30
tblVehicleEF	LHD2	1.4440e-003	1.0950e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	9.3090e-003
tblVehicleEF	LHD2	1.1300e-004	3.7500e-004
tblVehicleEF	LHD2	1.3810e-003	1.0480e-003
tblVehicleEF	LHD2	2.6980e-003	2.7020e-003
tblVehicleEF	LHD2	0.01	8.8830e-003
tblVehicleEF	LHD2	1.0400e-004	3.4400e-004
tblVehicleEF	LHD2	3.0600e-004	2.5200e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.01

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	LHD2	1.4900e-004	1.2500e-004
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.07	0.05
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	1.2400e-004	1.3300e-004
tblVehicleEF	LHD2	6.7670e-003	6.6240e-003
tblVehicleEF	LHD2	7.0000e-005	2.4200e-004
tblVehicleEF	LHD2	3.0600e-004	2.5200e-004
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4900e-004	1.2500e-004
tblVehicleEF	LHD2	0.11	0.10
tblVehicleEF	LHD2	0.07	0.05
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	MCY	0.32	0.47
tblVehicleEF	MCY	0.25	0.16
tblVehicleEF	MCY	18.02	17.89
tblVehicleEF	MCY	9.33	10.48
tblVehicleEF	MCY	212.68	173.57
tblVehicleEF	MCY	59.32	42.39
tblVehicleEF	MCY	1.15	1.15
tblVehicleEF	MCY	0.27	0.32
tblVehicleEF	MCY	2.1880e-003	2.1740e-003
tblVehicleEF	MCY	3.0600e-003	3.4890e-003
tblVehicleEF	MCY	2.0410e-003	2.0270e-003
tblVehicleEF	MCY	2.8630e-003	3.2650e-003
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	0.49	0.50
tblVehicleEF	MCY	0.35	0.35

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MCY	2.15	2.14
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	1.91	2.14
tblVehicleEF	MCY	2.1050e-003	2.0920e-003
tblVehicleEF	MCY	5.8700e-004	6.5800e-004
tblVehicleEF	MCY	0.60	0.60
tblVehicleEF	MCY	0.49	0.50
tblVehicleEF	MCY	0.35	0.35
tblVehicleEF	MCY	2.70	2.69
tblVehicleEF	MCY	0.40	0.41
tblVehicleEF	MCY	2.08	2.33
tblVehicleEF	MCY	0.31	0.45
tblVehicleEF	MCY	0.21	0.13
tblVehicleEF	MCY	16.96	16.85
tblVehicleEF	MCY	7.96	9.03
tblVehicleEF	MCY	210.73	173.57
tblVehicleEF	MCY	56.10	42.39
tblVehicleEF	MCY	1.01	1.01
tblVehicleEF	MCY	0.25	0.29
tblVehicleEF	MCY	2.1880e-003	2.1740e-003
tblVehicleEF	MCY	3.0600e-003	3.4890e-003
tblVehicleEF	MCY	2.0410e-003	2.0270e-003
tblVehicleEF	MCY	2.8630e-003	3.2650e-003
tblVehicleEF	MCY	1.78	1.79
tblVehicleEF	MCY	0.61	0.61
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	2.08	2.07
tblVehicleEF	MCY	0.36	0.37
tblVehicleEF	MCY	1.60	1.81



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MCY	2.0850e-003	2.0730e-003
tblVehicleEF	MCY	5.5500e-004	6.2400e-004
tblVehicleEF	MCY	1.78	1.79
tblVehicleEF	MCY	0.61	0.61
tblVehicleEF	MCY	0.86	0.87
tblVehicleEF	MCY	2.60	2.60
tblVehicleEF	MCY	0.36	0.37
tblVehicleEF	MCY	1.74	1.97
tblVehicleEF	MCY	0.33	0.48
tblVehicleEF	MCY	0.29	0.18
tblVehicleEF	MCY	19.23	19.09
tblVehicleEF	MCY	10.56	11.81
tblVehicleEF	MCY	214.85	173.57
tblVehicleEF	MCY	62.13	42.39
tblVehicleEF	MCY	1.22	1.22
tblVehicleEF	MCY	0.29	0.34
tblVehicleEF	MCY	2.1880e-003	2.1740e-003
tblVehicleEF	MCY	3.0600e-003	3.4890e-003
tblVehicleEF	MCY	2.0410e-003	2.0270e-003
tblVehicleEF	MCY	2.8630e-003	3.2650e-003
tblVehicleEF	MCY	0.25	0.25
tblVehicleEF	MCY	0.59	0.60
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.22	2.21
tblVehicleEF	MCY	0.48	0.50
tblVehicleEF	MCY	2.17	2.41
tblVehicleEF	MCY	2.1260e-003	2.1130e-003
tblVehicleEF	MCY	6.1500e-004	6.8800e-004
tblVehicleEF	MCY	0.25	0.25

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MCY	0.59	0.60
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.78	2.77
tblVehicleEF	MCY	0.48	0.50
tblVehicleEF	MCY	2.36	2.63
tblVehicleEF	MDV	1.5960e-003	4.3750e-003
tblVehicleEF	MDV	0.05	6.5230e-003
tblVehicleEF	MDV	0.50	0.59
tblVehicleEF	MDV	2.42	1.42
tblVehicleEF	MDV	310.61	370.75
tblVehicleEF	MDV	65.45	85.63
tblVehicleEF	MDV	0.03	0.06
tblVehicleEF	MDV	0.18	0.10
tblVehicleEF	MDV	1.1750e-003	1.6040e-003
tblVehicleEF	MDV	1.5330e-003	2.3070e-003
tblVehicleEF	MDV	1.0830e-003	1.4770e-003
tblVehicleEF	MDV	1.4100e-003	2.1210e-003
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	6.1010e-003	0.01
tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.20	0.09
tblVehicleEF	MDV	3.0690e-003	3.7060e-003
tblVehicleEF	MDV	6.4800e-004	8.8000e-004
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.8350e-003	0.02

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MDV	0.05	0.09
tblVehicleEF	MDV	0.22	0.10
tblVehicleEF	MDV	1.7670e-003	4.7650e-003
tblVehicleEF	MDV	0.04	5.4950e-003
tblVehicleEF	MDV	0.57	0.67
tblVehicleEF	MDV	1.91	1.13
tblVehicleEF	MDV	322.62	393.00
tblVehicleEF	MDV	64.53	85.63
tblVehicleEF	MDV	0.03	0.05
tblVehicleEF	MDV	0.16	0.09
tblVehicleEF	MDV	1.1750e-003	1.6040e-003
tblVehicleEF	MDV	1.5330e-003	2.3070e-003
tblVehicleEF	MDV	1.0830e-003	1.4770e-003
tblVehicleEF	MDV	1.4100e-003	2.1210e-003
tblVehicleEF	MDV	0.09	0.08
tblVehicleEF	MDV	0.08	0.11
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	6.6180e-003	0.01
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.17	0.07
tblVehicleEF	MDV	3.1880e-003	3.9300e-003
tblVehicleEF	MDV	6.3900e-004	8.7500e-004
tblVehicleEF	MDV	0.09	0.08
tblVehicleEF	MDV	0.08	0.11
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	9.5900e-003	0.02
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.19	0.08
tblVehicleEF	MDV	1.5520e-003	4.3030e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MDV	0.05	7.2550e-003
tblVehicleEF	MDV	0.50	0.59
tblVehicleEF	MDV	2.78	1.62
tblVehicleEF	MDV	309.88	369.39
tblVehicleEF	MDV	66.10	85.63
tblVehicleEF	MDV	0.03	0.06
tblVehicleEF	MDV	0.19	0.11
tblVehicleEF	MDV	1.1750e-003	1.6040e-003
tblVehicleEF	MDV	1.5330e-003	2.3070e-003
tblVehicleEF	MDV	1.0830e-003	1.4770e-003
tblVehicleEF	MDV	1.4100e-003	2.1210e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	6.0100e-003	0.01
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.23	0.10
tblVehicleEF	MDV	3.0620e-003	3.6930e-003
tblVehicleEF	MDV	6.5400e-004	8.8300e-004
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	8.7020e-003	0.02
tblVehicleEF	MDV	0.06	0.11
tblVehicleEF	MDV	0.25	0.11
tblVehicleEF	MH	4.8570e-003	8.5530e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.33	0.51
tblVehicleEF	MH	1.68	3.66

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MH	1,371.07	1,180.30
tblVehicleEF	MH	15.87	56.32
tblVehicleEF	MH	0.88	0.74
tblVehicleEF	MH	0.22	0.56
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	8.7730e-003
tblVehicleEF	MH	2.3300e-004	8.9800e-004
tblVehicleEF	MH	3.2840e-003	3.2230e-003
tblVehicleEF	MH	0.01	8.3520e-003
tblVehicleEF	MH	2.1400e-004	8.2500e-004
tblVehicleEF	MH	0.20	0.26
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.5490e-003	8.1490e-003
tblVehicleEF	MH	0.07	0.21
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.5700e-004	6.2700e-004
tblVehicleEF	MH	0.20	0.26
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	4.5490e-003	8.1490e-003
tblVehicleEF	MH	0.08	0.23
tblVehicleEF	MH	4.9890e-003	8.9080e-003
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.52
tblVehicleEF	MH	1.55	3.37
tblVehicleEF	MH	1,371.09	1,180.30

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MH	15.64	56.32
tblVehicleEF	MH	0.84	0.70
tblVehicleEF	MH	0.21	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	8.7730e-003
tblVehicleEF	MH	2.3300e-004	8.9800e-004
tblVehicleEF	MH	3.2840e-003	3.2230e-003
tblVehicleEF	MH	0.01	8.3520e-003
tblVehicleEF	MH	2.1400e-004	8.2500e-004
tblVehicleEF	MH	0.47	0.60
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.16	0.21
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.3860e-003	7.8610e-003
tblVehicleEF	MH	0.07	0.19
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.5500e-004	6.2200e-004
tblVehicleEF	MH	0.47	0.60
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.16	0.21
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	4.3860e-003	7.8610e-003
tblVehicleEF	MH	0.08	0.21
tblVehicleEF	MH	4.7730e-003	8.3330e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.32	0.49
tblVehicleEF	MH	1.79	3.90
tblVehicleEF	MH	1,371.06	1,180.30
tblVehicleEF	MH	16.06	56.32

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MH	0.90	0.76
tblVehicleEF	MH	0.24	0.59
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.01	8.7730e-003
tblVehicleEF	MH	2.3300e-004	8.9800e-004
tblVehicleEF	MH	3.2840e-003	3.2230e-003
tblVehicleEF	MH	0.01	8.3520e-003
tblVehicleEF	MH	2.1400e-004	8.2500e-004
tblVehicleEF	MH	0.12	0.16
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.9140e-003	8.7760e-003
tblVehicleEF	MH	0.08	0.22
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	1.5900e-004	6.3100e-004
tblVehicleEF	MH	0.12	0.16
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	4.9140e-003	8.7760e-003
tblVehicleEF	MH	0.08	0.24
tblVehicleEF	MHD	3.9080e-003	0.02
tblVehicleEF	MHD	1.1440e-003	2.8780e-003
tblVehicleEF	MHD	8.9470e-003	0.03
tblVehicleEF	MHD	0.38	0.36
tblVehicleEF	MHD	0.16	0.26
tblVehicleEF	MHD	0.96	4.03
tblVehicleEF	MHD	59.10	135.40

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MHD	1,005.67	1,169.31
tblVehicleEF	MHD	9.13	58.20
tblVehicleEF	MHD	0.31	0.35
tblVehicleEF	MHD	1.30	1.00
tblVehicleEF	MHD	1.67	10.30
tblVehicleEF	MHD	1.7800e-004	5.9000e-005
tblVehicleEF	MHD	6.2490e-003	2.9190e-003
tblVehicleEF	MHD	1.1500e-004	8.1500e-004
tblVehicleEF	MHD	1.7000e-004	5.6000e-005
tblVehicleEF	MHD	5.9710e-003	2.7860e-003
tblVehicleEF	MHD	1.0500e-004	7.4900e-004
tblVehicleEF	MHD	2.3500e-004	4.8500e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.6200e-004	3.3800e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.24
tblVehicleEF	MHD	5.6100e-004	1.3040e-003
tblVehicleEF	MHD	9.5990e-003	0.01
tblVehicleEF	MHD	9.0000e-005	6.5200e-004
tblVehicleEF	MHD	2.3500e-004	4.8500e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.6200e-004	3.3800e-004
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.27
tblVehicleEF	MHD	3.6790e-003	0.01



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MHD	1.1740e-003	2.9190e-003
tblVehicleEF	MHD	8.4110e-003	0.03
tblVehicleEF	MHD	0.32	0.25
tblVehicleEF	MHD	0.16	0.26
tblVehicleEF	MHD	0.88	3.69
tblVehicleEF	MHD	58.98	143.58
tblVehicleEF	MHD	1,005.67	1,169.31
tblVehicleEF	MHD	8.99	58.20
tblVehicleEF	MHD	0.30	0.36
tblVehicleEF	MHD	1.25	0.96
tblVehicleEF	MHD	1.66	10.26
tblVehicleEF	MHD	1.5300e-004	5.0000e-005
tblVehicleEF	MHD	6.2490e-003	2.9190e-003
tblVehicleEF	MHD	1.1500e-004	8.1500e-004
tblVehicleEF	MHD	1.4600e-004	4.7000e-005
tblVehicleEF	MHD	5.9710e-003	2.7860e-003
tblVehicleEF	MHD	1.0500e-004	7.4900e-004
tblVehicleEF	MHD	5.6500e-004	1.1550e-003
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	2.7700e-004	5.7300e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.23
tblVehicleEF	MHD	5.6000e-004	1.3810e-003
tblVehicleEF	MHD	9.5990e-003	0.01
tblVehicleEF	MHD	8.9000e-005	6.4600e-004
tblVehicleEF	MHD	5.6500e-004	1.1550e-003
tblVehicleEF	MHD	0.01	0.03

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	2.7700e-004	5.7300e-004
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.25
tblVehicleEF	MHD	4.1340e-003	0.02
tblVehicleEF	MHD	1.1240e-003	2.8530e-003
tblVehicleEF	MHD	9.3150e-003	0.04
tblVehicleEF	MHD	0.45	0.47
tblVehicleEF	MHD	0.16	0.26
tblVehicleEF	MHD	1.02	4.30
tblVehicleEF	MHD	59.40	124.46
tblVehicleEF	MHD	1,005.67	1,169.31
tblVehicleEF	MHD	9.23	58.20
tblVehicleEF	MHD	0.33	0.33
tblVehicleEF	MHD	1.32	1.02
tblVehicleEF	MHD	1.67	10.33
tblVehicleEF	MHD	2.1200e-004	7.1000e-005
tblVehicleEF	MHD	6.2490e-003	2.9190e-003
tblVehicleEF	MHD	1.1500e-004	8.1500e-004
tblVehicleEF	MHD	2.0300e-004	6.8000e-005
tblVehicleEF	MHD	5.9710e-003	2.7860e-003
tblVehicleEF	MHD	1.0500e-004	7.4900e-004
tblVehicleEF	MHD	1.4600e-004	3.0400e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	7.1000e-005	1.4900e-004
tblVehicleEF	MHD	0.01	0.04
tblVehicleEF	MHD	0.02	0.01

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	MHD	0.05	0.26
tblVehicleEF	MHD	5.6400e-004	1.2010e-003
tblVehicleEF	MHD	9.5990e-003	0.01
tblVehicleEF	MHD	9.1000e-005	6.5700e-004
tblVehicleEF	MHD	1.4600e-004	3.0400e-004
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	7.1000e-005	1.4900e-004
tblVehicleEF	MHD	0.01	0.05
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.05	0.28
tblVehicleEF	OBUS	6.7430e-003	0.01
tblVehicleEF	OBUS	2.1650e-003	4.1300e-003
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.65	0.24
tblVehicleEF	OBUS	0.27	0.32
tblVehicleEF	OBUS	1.42	4.02
tblVehicleEF	OBUS	104.84	123.61
tblVehicleEF	OBUS	1,245.43	1,283.10
tblVehicleEF	OBUS	12.47	63.94
tblVehicleEF	OBUS	0.46	0.28
tblVehicleEF	OBUS	1.47	0.94
tblVehicleEF	OBUS	1.22	3.03
tblVehicleEF	OBUS	1.5000e-004	2.5000e-005
tblVehicleEF	OBUS	7.7860e-003	2.9800e-003
tblVehicleEF	OBUS	1.4600e-004	9.1100e-004
tblVehicleEF	OBUS	1.4300e-004	2.4000e-005
tblVehicleEF	OBUS	7.4360e-003	2.8310e-003
tblVehicleEF	OBUS	1.3400e-004	8.3800e-004

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	OBUS	7.3900e-004	7.6600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	3.9500e-004	4.2100e-004
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.25
tblVehicleEF	OBUS	9.9500e-004	1.1910e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.2300e-004	7.1000e-004
tblVehicleEF	OBUS	7.3900e-004	7.6600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	3.9500e-004	4.2100e-004
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.28
tblVehicleEF	OBUS	6.8460e-003	0.01
tblVehicleEF	OBUS	2.2330e-003	4.2200e-003
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.65	0.24
tblVehicleEF	OBUS	0.27	0.32
tblVehicleEF	OBUS	1.31	3.70
tblVehicleEF	OBUS	103.54	130.02
tblVehicleEF	OBUS	1,245.44	1,283.10
tblVehicleEF	OBUS	12.28	63.94
tblVehicleEF	OBUS	0.43	0.28
tblVehicleEF	OBUS	1.41	0.90
tblVehicleEF	OBUS	1.21	2.98

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	OBUS	1.3300e-004	2.1000e-005
tblVehicleEF	OBUS	7.7860e-003	2.9800e-003
tblVehicleEF	OBUS	1.4600e-004	9.1100e-004
tblVehicleEF	OBUS	1.2700e-004	2.0000e-005
tblVehicleEF	OBUS	7.4360e-003	2.8310e-003
tblVehicleEF	OBUS	1.3400e-004	8.3800e-004
tblVehicleEF	OBUS	1.6690e-003	1.7380e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	6.6200e-004	7.1500e-004
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.06	0.24
tblVehicleEF	OBUS	9.8200e-004	1.2520e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.2100e-004	7.0400e-004
tblVehicleEF	OBUS	1.6690e-003	1.7380e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	6.6200e-004	7.1500e-004
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.26
tblVehicleEF	OBUS	6.6130e-003	0.01
tblVehicleEF	OBUS	2.1210e-003	4.0740e-003
tblVehicleEF	OBUS	0.01	0.02
tblVehicleEF	OBUS	0.66	0.26
tblVehicleEF	OBUS	0.26	0.31
tblVehicleEF	OBUS	1.51	4.28

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	OBUS	106.65	114.76
tblVehicleEF	OBUS	1,245.42	1,283.10
tblVehicleEF	OBUS	12.63	63.94
tblVehicleEF	OBUS	0.49	0.26
tblVehicleEF	OBUS	1.50	0.96
tblVehicleEF	OBUS	1.22	3.06
tblVehicleEF	OBUS	1.7300e-004	3.1000e-005
tblVehicleEF	OBUS	7.7860e-003	2.9800e-003
tblVehicleEF	OBUS	1.4600e-004	9.1100e-004
tblVehicleEF	OBUS	1.6600e-004	2.9000e-005
tblVehicleEF	OBUS	7.4360e-003	2.8310e-003
tblVehicleEF	OBUS	1.3400e-004	8.3800e-004
tblVehicleEF	OBUS	4.9600e-004	5.2000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	1.5500e-004	1.6400e-004
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.07	0.26
tblVehicleEF	OBUS	1.0120e-003	1.1060e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.2500e-004	7.1400e-004
tblVehicleEF	OBUS	4.9600e-004	5.2000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	1.5500e-004	1.6400e-004
tblVehicleEF	OBUS	0.02	0.05
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.08	0.29

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	SBUS	0.13	0.83
tblVehicleEF	SBUS	7.3810e-003	9.8460e-003
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	4.70	13.22
tblVehicleEF	SBUS	0.67	0.55
tblVehicleEF	SBUS	1.72	11.32
tblVehicleEF	SBUS	370.42	806.41
tblVehicleEF	SBUS	935.90	830.95
tblVehicleEF	SBUS	9.22	91.97
tblVehicleEF	SBUS	2.83	2.86
tblVehicleEF	SBUS	3.42	1.30
tblVehicleEF	SBUS	0.83	5.68
tblVehicleEF	SBUS	2.7720e-003	1.9340e-003
tblVehicleEF	SBUS	9.9310e-003	9.2100e-003
tblVehicleEF	SBUS	0.02	7.2160e-003
tblVehicleEF	SBUS	1.5200e-004	1.8110e-003
tblVehicleEF	SBUS	2.6520e-003	1.8500e-003
tblVehicleEF	SBUS	2.4830e-003	2.3020e-003
tblVehicleEF	SBUS	0.02	6.8660e-003
tblVehicleEF	SBUS	1.4000e-004	1.6650e-003
tblVehicleEF	SBUS	7.5000e-004	3.1230e-003
tblVehicleEF	SBUS	9.0470e-003	0.03
tblVehicleEF	SBUS	0.57	1.58
tblVehicleEF	SBUS	3.9700e-004	1.7380e-003
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.57
tblVehicleEF	SBUS	3.5540e-003	8.1650e-003
tblVehicleEF	SBUS	9.0210e-003	8.1320e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	SBUS	9.1000e-005	1.1140e-003
tblVehicleEF	SBUS	7.5000e-004	3.1230e-003
tblVehicleEF	SBUS	9.0470e-003	0.03
tblVehicleEF	SBUS	0.83	2.29
tblVehicleEF	SBUS	3.9700e-004	1.7380e-003
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.07	0.62
tblVehicleEF	SBUS	0.13	0.83
tblVehicleEF	SBUS	7.5460e-003	0.01
tblVehicleEF	SBUS	9.9060e-003	0.05
tblVehicleEF	SBUS	4.66	13.18
tblVehicleEF	SBUS	0.69	0.57
tblVehicleEF	SBUS	1.33	8.74
tblVehicleEF	SBUS	377.90	827.37
tblVehicleEF	SBUS	935.93	830.95
tblVehicleEF	SBUS	8.57	91.97
tblVehicleEF	SBUS	2.89	2.94
tblVehicleEF	SBUS	3.28	1.24
tblVehicleEF	SBUS	0.82	5.63
tblVehicleEF	SBUS	2.3440e-003	1.6300e-003
tblVehicleEF	SBUS	9.9310e-003	9.2100e-003
tblVehicleEF	SBUS	0.02	7.2160e-003
tblVehicleEF	SBUS	1.5200e-004	1.8110e-003
tblVehicleEF	SBUS	2.2430e-003	1.5600e-003
tblVehicleEF	SBUS	2.4830e-003	2.3020e-003
tblVehicleEF	SBUS	0.02	6.8660e-003
tblVehicleEF	SBUS	1.4000e-004	1.6650e-003
tblVehicleEF	SBUS	1.7360e-003	7.0620e-003



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	SBUS	9.2450e-003	0.04
tblVehicleEF	SBUS	0.57	1.57
tblVehicleEF	SBUS	6.9600e-004	2.9490e-003
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.06	0.49
tblVehicleEF	SBUS	3.6240e-003	8.3650e-003
tblVehicleEF	SBUS	9.0220e-003	8.1320e-003
tblVehicleEF	SBUS	8.5000e-005	1.0710e-003
tblVehicleEF	SBUS	1.7360e-003	7.0620e-003
tblVehicleEF	SBUS	9.2450e-003	0.04
tblVehicleEF	SBUS	0.82	2.29
tblVehicleEF	SBUS	6.9600e-004	2.9490e-003
tblVehicleEF	SBUS	0.10	0.07
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.06	0.54
tblVehicleEF	SBUS	0.13	0.83
tblVehicleEF	SBUS	7.2700e-003	9.6570e-003
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	4.74	13.27
tblVehicleEF	SBUS	0.66	0.54
tblVehicleEF	SBUS	2.10	13.81
tblVehicleEF	SBUS	360.08	777.46
tblVehicleEF	SBUS	935.88	830.95
tblVehicleEF	SBUS	9.85	91.97
tblVehicleEF	SBUS	2.75	2.74
tblVehicleEF	SBUS	3.49	1.33
tblVehicleEF	SBUS	0.83	5.72
tblVehicleEF	SBUS	3.3630e-003	2.3530e-003

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	SBUS	9.9310e-003	9.2100e-003
tblVehicleEF	SBUS	0.02	7.2160e-003
tblVehicleEF	SBUS	1.5200e-004	1.8110e-003
tblVehicleEF	SBUS	3.2170e-003	2.2520e-003
tblVehicleEF	SBUS	2.4830e-003	2.3020e-003
tblVehicleEF	SBUS	0.02	6.8660e-003
tblVehicleEF	SBUS	1.4000e-004	1.6650e-003
tblVehicleEF	SBUS	4.9200e-004	2.1400e-003
tblVehicleEF	SBUS	9.2820e-003	0.04
tblVehicleEF	SBUS	0.57	1.58
tblVehicleEF	SBUS	1.5100e-004	6.8100e-004
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.07	0.63
tblVehicleEF	SBUS	3.4560e-003	7.8890e-003
tblVehicleEF	SBUS	9.0210e-003	8.1320e-003
tblVehicleEF	SBUS	9.7000e-005	1.1560e-003
tblVehicleEF	SBUS	4.9200e-004	2.1400e-003
tblVehicleEF	SBUS	9.2820e-003	0.04
tblVehicleEF	SBUS	0.83	2.29
tblVehicleEF	SBUS	1.5100e-004	6.8100e-004
tblVehicleEF	SBUS	0.09	0.07
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.08	0.69
tblVehicleEF	UBUS	1.52	0.26
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	11.42	3.33
tblVehicleEF	UBUS	0.82	7.35
tblVehicleEF	UBUS	1,598.09	1,984.06

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	UBUS	8.92	112.65
tblVehicleEF	UBUS	0.69	4.99
tblVehicleEF	UBUS	0.10	13.92
tblVehicleEF	UBUS	0.08	0.57
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	5.0090e-003	0.09
tblVehicleEF	UBUS	6.2000e-005	1.2500e-003
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	7.8010e-003	3.0000e-003
tblVehicleEF	UBUS	4.7900e-003	0.08
tblVehicleEF	UBUS	5.7000e-005	1.1500e-003
tblVehicleEF	UBUS	7.1500e-004	1.7790e-003
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	5.6000e-004	1.2150e-003
tblVehicleEF	UBUS	0.02	0.25
tblVehicleEF	UBUS	5.0710e-003	8.7410e-003
tblVehicleEF	UBUS	0.06	0.60
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	8.8000e-005	1.2600e-003
tblVehicleEF	UBUS	7.1500e-004	1.7790e-003
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	5.6000e-004	1.2150e-003
tblVehicleEF	UBUS	1.55	0.53
tblVehicleEF	UBUS	5.0710e-003	8.7410e-003
tblVehicleEF	UBUS	0.07	0.65
tblVehicleEF	UBUS	1.52	0.26
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	11.42	3.35
tblVehicleEF	UBUS	0.67	5.98

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	UBUS	1,598.09	1,984.06
tblVehicleEF	UBUS	8.66	112.65
tblVehicleEF	UBUS	0.69	4.78
tblVehicleEF	UBUS	0.09	13.84
tblVehicleEF	UBUS	0.08	0.57
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	5.0090e-003	0.09
tblVehicleEF	UBUS	6.2000e-005	1.2500e-003
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	7.8010e-003	3.0000e-003
tblVehicleEF	UBUS	4.7900e-003	0.08
tblVehicleEF	UBUS	5.7000e-005	1.1500e-003
tblVehicleEF	UBUS	1.6110e-003	4.2660e-003
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	9.0600e-004	2.0980e-003
tblVehicleEF	UBUS	0.02	0.25
tblVehicleEF	UBUS	4.4070e-003	7.6990e-003
tblVehicleEF	UBUS	0.05	0.53
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	8.6000e-005	1.2360e-003
tblVehicleEF	UBUS	1.6110e-003	4.2660e-003
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	9.0600e-004	2.0980e-003
tblVehicleEF	UBUS	1.55	0.53
tblVehicleEF	UBUS	4.4070e-003	7.6990e-003
tblVehicleEF	UBUS	0.06	0.58
tblVehicleEF	UBUS	1.52	0.26
tblVehicleEF	UBUS	0.01	0.05
tblVehicleEF	UBUS	11.42	3.32

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleEF	UBUS	0.95	8.47
tblVehicleEF	UBUS	1,598.09	1,984.06
tblVehicleEF	UBUS	9.13	112.65
tblVehicleEF	UBUS	0.69	5.07
tblVehicleEF	UBUS	0.11	13.96
tblVehicleEF	UBUS	0.08	0.57
tblVehicleEF	UBUS	0.03	0.01
tblVehicleEF	UBUS	5.0090e-003	0.09
tblVehicleEF	UBUS	6.2000e-005	1.2500e-003
tblVehicleEF	UBUS	0.03	0.24
tblVehicleEF	UBUS	7.8010e-003	3.0000e-003
tblVehicleEF	UBUS	4.7900e-003	0.08
tblVehicleEF	UBUS	5.7000e-005	1.1500e-003
tblVehicleEF	UBUS	5.5100e-004	1.2340e-003
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	2.5100e-004	4.9900e-004
tblVehicleEF	UBUS	0.02	0.25
tblVehicleEF	UBUS	6.4740e-003	0.01
tblVehicleEF	UBUS	0.07	0.65
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	9.0000e-005	1.2790e-003
tblVehicleEF	UBUS	5.5100e-004	1.2340e-003
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	2.5100e-004	4.9900e-004
tblVehicleEF	UBUS	1.55	0.53
tblVehicleEF	UBUS	6.4740e-003	0.01
tblVehicleEF	UBUS	0.07	0.71
tblVehicleTrips	ST_TR	4.91	6.39
tblVehicleTrips	SU_TR	4.09	5.86

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

tblVehicleTrips	WD_TR	5.44	6.65
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**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1467	1.2526	1.3329	2.3400e-003	0.1386	0.0605	0.1990	0.0624	0.0561	0.1185	0.0000	203.6524	203.6524	0.0590	0.0000	205.1267
2024	3.5946	1.1369	1.4179	2.3100e-003	0.0000	0.0528	0.0528	0.0000	0.0495	0.0495	0.0000	200.9152	200.9152	0.0515	0.0000	202.2032
2025	0.0378	0.3606	0.4629	7.6000e-004	0.0000	0.0156	0.0156	0.0000	0.0145	0.0145	0.0000	66.4017	66.4017	0.0187	0.0000	66.8701
<b>Maximum</b>	<b>3.5946</b>	<b>1.2526</b>	<b>1.4179</b>	<b>2.3400e-003</b>	<b>0.1386</b>	<b>0.0605</b>	<b>0.1990</b>	<b>0.0624</b>	<b>0.0561</b>	<b>0.1185</b>	<b>0.0000</b>	<b>203.6524</b>	<b>203.6524</b>	<b>0.0590</b>	<b>0.0000</b>	<b>205.1267</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					
2023	0.0592	0.8259	1.4355	2.1500e-003	0.0624	5.5000e-003	0.0679	0.0140	5.5000e-003	0.0195	0.0000	187.3318	187.3318	0.0583	0.0000	188.7882
2024	3.5141	0.8486	1.4314	2.1000e-003	0.0000	6.9400e-003	6.9400e-003	0.0000	6.9400e-003	6.9400e-003	0.0000	182.4044	182.4044	0.0508	0.0000	183.6737

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

2025	0.0140	0.2745	0.4655	6.8000e-004	0.0000	2.0300e-003	2.0300e-003	0.0000	2.0300e-003	2.0300e-003	0.0000	58.8420	58.8420	0.0185	0.0000	59.3034
<b>Maximum</b>	<b>3.5141</b>	<b>0.8486</b>	<b>1.4355</b>	<b>2.1500e-003</b>	<b>0.0624</b>	<b>6.9400e-003</b>	<b>0.0679</b>	<b>0.0140</b>	<b>6.9400e-003</b>	<b>0.0195</b>	<b>0.0000</b>	<b>187.3318</b>	<b>187.3318</b>	<b>0.0583</b>	<b>0.0000</b>	<b>188.7882</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>	5.07	29.13	-3.69	8.87	55.00	88.77	71.27	77.50	87.95	84.38	0.00	9.00	9.00	1.35	0.00	8.95

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.5154	0.3237
2	4-1-2023	6-30-2023	0.2811	0.1753
3	7-1-2023	9-30-2023	0.2842	0.1772
4	10-1-2023	12-31-2023	0.3420	0.2317
5	1-1-2024	3-31-2024	1.4890	1.3931
6	4-1-2024	6-30-2024	1.4487	1.3574
7	7-1-2024	9-30-2024	1.4646	1.3723
8	10-1-2024	12-31-2024	0.3044	0.2161
9	1-1-2025	3-31-2025	0.2394	0.1733
10	4-1-2025	6-30-2025	0.1569	0.1136
		Highest	1.4890	1.3931

**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					

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Area	3.4768	0.0666	5.0928	3.2200e-003		0.2378	0.2378		0.2378	0.2378	21.8831	14.8240	36.7071	0.0408	1.4400e-003	38.1542
Energy	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556
Mobile	0.5976	1.6745	6.5413	0.0247	2.6726	0.0189	2.6915	0.7183	0.0176	0.7359	0.0000	2,272.7028	2,272.7028	0.0812	0.1077	2,306.8122
Waste						0.0000	0.0000		0.0000	0.0000	44.8204	0.0000	44.8204	2.6488	0.0000	111.0407
Water						0.0000	0.0000		0.0000	0.0000	9.9218	0.0000	9.9218	1.0191	0.0241	42.5689
<b>Total</b>	<b>4.0971</b>	<b>1.9341</b>	<b>11.7162</b>	<b>0.0292</b>	<b>2.6726</b>	<b>0.2724</b>	<b>2.9450</b>	<b>0.7183</b>	<b>0.2710</b>	<b>0.9894</b>	<b>76.6252</b>	<b>2,511.1535</b>	<b>2,587.7788</b>	<b>3.7942</b>	<b>0.1373</b>	<b>2,723.5316</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	tons/yr										MT/yr					
Area	3.4768	0.0666	5.0928	3.2200e-003		0.2378	0.2378		0.2378	0.2378	21.8831	14.8240	36.7071	0.0408	1.4400e-003	38.1542
Energy	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556
Mobile	0.5976	1.6745	6.5413	0.0247	2.6726	0.0189	2.6915	0.7183	0.0176	0.7359	0.0000	2,272.7028	2,272.7028	0.0812	0.1077	2,306.8122
Waste						0.0000	0.0000		0.0000	0.0000	44.8204	0.0000	44.8204	2.6488	0.0000	111.0407
Water						0.0000	0.0000		0.0000	0.0000	9.9218	0.0000	9.9218	1.0191	0.0241	42.5689
<b>Total</b>	<b>4.0971</b>	<b>1.9341</b>	<b>11.7162</b>	<b>0.0292</b>	<b>2.6726</b>	<b>0.2724</b>	<b>2.9450</b>	<b>0.7183</b>	<b>0.2710</b>	<b>0.9894</b>	<b>76.6252</b>	<b>2,511.1535</b>	<b>2,587.7788</b>	<b>3.7942</b>	<b>0.1373</b>	<b>2,723.5316</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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
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**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/27/2023	5	20	
2	Site Preparation	Site Preparation	1/28/2023	2/3/2023	5	5	
3	Grading	Grading	2/2/2023	3/29/2023	5	40	
4	Trenching	Trenching	2/10/2023	3/9/2023	5	20	
5	Building Construction	Building Construction	2/10/2023	5/29/2025	5	600	
6	Paving	Paving	12/15/2023	2/8/2024	5	40	
7	Architectural Coating	Architectural Coating	12/29/2023	10/3/2024	5	200	

**Acres of Grading (Site Preparation Phase): 2.19**

**Acres of Grading (Grading Phase): 15.25**

**Acres of Paving: 0**

**Residential Indoor: 976,854; Residential Outdoor: 325,618; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 26,804**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	1	7.00	158	0.38
Demolition	Rubber Tired Dozers	1	7.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48

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

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Bore/Drill Rigs	1	6.10	221	0.50
Grading	Excavators	1	6.10	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	1	6.10	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.40	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Generator Sets	2	1.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	1.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	3	5.30	97	0.37
Building Construction	Welders	2	1.00	46	0.45
Architectural Coating	Aerial Lifts	3	1.00	63	0.31
Architectural Coating	Air Compressors	4	1.50	78	0.48
Paving	Cement and Mortar Mixers	1	3.80	9	0.56
Paving	Pavers	1	1.50	130	0.42
Paving	Paving Equipment	2	1.50	132	0.36
Paving	Rollers	1	1.50	80	0.38
Paving	Tractors/Loaders/Backhoes	2	3.50	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
Demolition	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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

Building Construction	11	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Alternative Fuel for Construction Equipment
- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0243	0.0000	0.0243	3.6800e-003	0.0000	3.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1087	0.1026	1.9000e-004		5.1000e-003	5.1000e-003		4.7700e-003	4.7700e-003	0.0000	16.9607	16.9607	4.3800e-003	0.0000	17.0702
<b>Total</b>	<b>0.0115</b>	<b>0.1087</b>	<b>0.1026</b>	<b>1.9000e-004</b>	<b>0.0243</b>	<b>5.1000e-003</b>	<b>0.0294</b>	<b>3.6800e-003</b>	<b>4.7700e-003</b>	<b>8.4500e-003</b>	<b>0.0000</b>	<b>16.9607</b>	<b>16.9607</b>	<b>4.3800e-003</b>	<b>0.0000</b>	<b>17.0702</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					0.0109	0.0000	0.0109	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2500e-003	0.0682	0.1234	1.9000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.9607	16.9607	4.3800e-003	0.0000	17.0702
<b>Total</b>	<b>3.2500e-003</b>	<b>0.0682</b>	<b>0.1234</b>	<b>1.9000e-004</b>	<b>0.0109</b>	<b>3.0000e-004</b>	<b>0.0112</b>	<b>8.3000e-004</b>	<b>3.0000e-004</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>16.9607</b>	<b>16.9607</b>	<b>4.3800e-003</b>	<b>0.0000</b>	<b>17.0702</b>

**Mitigated Construction Off-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

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

**3.3 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0143	0.0000	0.0143	7.3700e-003	0.0000	7.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8300e-003	0.0190	0.0117	3.0000e-005		8.7000e-004	8.7000e-004		8.0000e-004	8.0000e-004	0.0000	2.2396	2.2396	7.2000e-004	0.0000	2.2577
<b>Total</b>	<b>1.8300e-003</b>	<b>0.0190</b>	<b>0.0117</b>	<b>3.0000e-005</b>	<b>0.0143</b>	<b>8.7000e-004</b>	<b>0.0152</b>	<b>7.3700e-003</b>	<b>8.0000e-004</b>	<b>8.1700e-003</b>	<b>0.0000</b>	<b>2.2396</b>	<b>2.2396</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.2577</b>

**Unmitigated Construction Off-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					6.4500e-003	0.0000	6.4500e-003	1.6600e-003	0.0000	1.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-004	7.8800e-003	0.0150	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2396	2.2396	7.2000e-004	0.0000	2.2577
<b>Total</b>	<b>4.6000e-004</b>	<b>7.8800e-003</b>	<b>0.0150</b>	<b>3.0000e-005</b>	<b>6.4500e-003</b>	<b>4.0000e-005</b>	<b>6.4900e-003</b>	<b>1.6600e-003</b>	<b>4.0000e-005</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>2.2396</b>	<b>2.2396</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.2577</b>

**Mitigated Construction Off-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

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

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0999	0.0000	0.0999	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.1903	0.1671	4.1000e-004		8.3800e-003	8.3800e-003		7.7100e-003	7.7100e-003	0.0000	35.8119	35.8119	0.0116	0.0000	36.1015
<b>Total</b>	<b>0.0193</b>	<b>0.1903</b>	<b>0.1671</b>	<b>4.1000e-004</b>	<b>0.0999</b>	<b>8.3800e-003</b>	<b>0.1083</b>	<b>0.0514</b>	<b>7.7100e-003</b>	<b>0.0591</b>	<b>0.0000</b>	<b>35.8119</b>	<b>35.8119</b>	<b>0.0116</b>	<b>0.0000</b>	<b>36.1015</b>

**Unmitigated Construction Off-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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					0.0450	0.0000	0.0450	0.0116	0.0000	0.0116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6900e-003	0.1310	0.2471	4.1000e-004		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	35.8119	35.8119	0.0116	0.0000	36.1014
<b>Total</b>	<b>6.6900e-003</b>	<b>0.1310</b>	<b>0.2471</b>	<b>4.1000e-004</b>	<b>0.0450</b>	<b>6.7000e-004</b>	<b>0.0456</b>	<b>0.0116</b>	<b>6.7000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>35.8119</b>	<b>35.8119</b>	<b>0.0116</b>	<b>0.0000</b>	<b>36.1014</b>

**Mitigated Construction Off-Site**



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

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

**3.5 Trenching - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3200e-003	0.0134	0.0195	3.0000e-005		6.6000e-004	6.6000e-004		6.1000e-004	6.1000e-004	0.0000	2.3939	2.3939	7.7000e-004	0.0000	2.4132
<b>Total</b>	<b>1.3200e-003</b>	<b>0.0134</b>	<b>0.0195</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.3939</b>	<b>2.3939</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.4132</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
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557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Category	tons/yr										MT/yr					
	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	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	6.1000e-004	0.0119	0.0205	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3939	2.3939	7.7000e-004	0.0000	2.4132
<b>Total</b>	<b>6.1000e-004</b>	<b>0.0119</b>	<b>0.0205</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.3939</b>	<b>2.3939</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.4132</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					











557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0140	0.2745	0.4655	6.8000e-004		2.0300e-003	2.0300e-003		2.0300e-003	2.0300e-003	0.0000	58.8420	58.8420	0.0185	0.0000	59.3034
<b>Total</b>	<b>0.0140</b>	<b>0.2745</b>	<b>0.4655</b>	<b>6.8000e-004</b>		<b>2.0300e-003</b>	<b>2.0300e-003</b>		<b>2.0300e-003</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>58.8420</b>	<b>58.8420</b>	<b>0.0185</b>	<b>0.0000</b>	<b>59.3034</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.7 Paving - 2023**

**Unmitigated Construction On-Site**



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5900e-003	0.0153	0.0217	3.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	2.8380	2.8380	8.9000e-004	0.0000	2.8603
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>1.5900e-003</b>	<b>0.0153</b>	<b>0.0217</b>	<b>3.0000e-005</b>		<b>7.5000e-004</b>	<b>7.5000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.8380</b>	<b>2.8380</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.8603</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.6000e-004	0.0136	0.0234	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.8380	2.8380	8.9000e-004	0.0000	2.8603
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>5.6000e-004</b>	<b>0.0136</b>	<b>0.0234</b>	<b>3.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.8380</b>	<b>2.8380</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>2.8603</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.7 Paving - 2024**

**Unmitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0200e-003	0.0379	0.0574	9.0000e-005		1.7800e-003	1.7800e-003		1.6400e-003	1.6400e-003	0.0000	7.4842	7.4842	2.3500e-003	0.0000	7.5430
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>4.0200e-003</b>	<b>0.0379</b>	<b>0.0574</b>	<b>9.0000e-005</b>		<b>1.7800e-003</b>	<b>1.7800e-003</b>		<b>1.6400e-003</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>7.4842</b>	<b>7.4842</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>7.5430</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4700e-003	0.0357	0.0617	9.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	7.4842	7.4842	2.3500e-003	0.0000	7.5430
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>1.4700e-003</b>	<b>0.0357</b>	<b>0.0617</b>	<b>9.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>7.4842</b>	<b>7.4842</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>7.5430</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.8 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-004	7.5000e-004	1.1100e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1553	0.1553	2.0000e-005	0.0000	0.1557
<b>Total</b>	<b>0.0175</b>	<b>7.5000e-004</b>	<b>1.1100e-003</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1553</b>	<b>0.1553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1557</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0174					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-005	7.1000e-004	1.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1553	0.1553	2.0000e-005	0.0000	0.1557
<b>Total</b>	<b>0.0175</b>	<b>7.1000e-004</b>	<b>1.1600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1553</b>	<b>0.1553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1557</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.8 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.4715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0193	0.1409	0.2209	3.6000e-004		6.4000e-003	6.4000e-003		6.3700e-003	6.3700e-003	0.0000	30.9095	30.9095	3.2100e-003	0.0000	30.9897
<b>Total</b>	<b>3.4908</b>	<b>0.1409</b>	<b>0.2209</b>	<b>3.6000e-004</b>		<b>6.4000e-003</b>	<b>6.4000e-003</b>		<b>6.3700e-003</b>	<b>6.3700e-003</b>	<b>0.0000</b>	<b>30.9095</b>	<b>30.9095</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>30.9897</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction On-Site**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.4715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9600e-003	0.1407	0.2299	3.6000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	30.9094	30.9094	3.2100e-003	0.0000	30.9897
<b>Total</b>	<b>3.4785</b>	<b>0.1407</b>	<b>0.2299</b>	<b>3.6000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>30.9094</b>	<b>30.9094</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>30.9897</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**4.0 Operational Detail - Mobile**



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**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	0.5976	1.6745	6.5413	0.0247	2.6726	0.0189	2.6915	0.7183	0.0176	0.7359	0.0000	2,272.7028	2,272.7028	0.0812	0.1077	2,306.8122
Unmitigated	0.5976	1.6745	6.5413	0.0247	2.6726	0.0189	2.6915	0.7183	0.0176	0.7359	0.0000	2,272.7028	2,272.7028	0.0812	0.1077	2,306.8122

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	3,192.00	3,067.20	2812.80	7,205,975	7,205,975
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>3,192.00</b>	<b>3,067.20</b>	<b>2,812.80</b>	<b>7,205,975</b>	<b>7,205,975</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Apartments Mid Rise	0.455310	0.050915	0.274346	0.144068	0.016906	0.007409	0.026149	0.006711	0.004381	0.002981	0.009412	0.000556	0.000856
Enclosed Parking with Elevator	0.455310	0.050915	0.274346	0.144068	0.016906	0.007409	0.026149	0.006711	0.004381	0.002981	0.009412	0.000556	0.000856
Other Non-Asphalt Surfaces	0.455310	0.050915	0.274346	0.144068	0.016906	0.007409	0.026149	0.006711	0.004381	0.002981	0.009412	0.000556	0.000856

**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	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556
NaturalGas Unmitigated	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556

**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
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557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Land Use	kBTU/yr	tons/yr									MT/yr						
		CO	NOx	PM10	PM2.5	SO2	Exhaust PM10	Exhaust PM2.5	Fugitive PM10	Fugitive PM2.5	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Apartments Mid Rise	4.19061e+006	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0226</b>	<b>0.1931</b>	<b>0.0822</b>	<b>1.2300e-003</b>		<b>0.0156</b>	<b>0.0156</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>223.6267</b>	<b>223.6267</b>	<b>4.2900e-003</b>	<b>4.1000e-003</b>	<b>224.9556</b>

**Mitigated**

Land Use	Natural Gas Use	kBTU/yr	tons/yr									MT/yr						
			CO	NOx	PM10	PM2.5	SO2	Exhaust PM10	Exhaust PM2.5	Fugitive PM10	Fugitive PM2.5	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Apartments Mid Rise		4.19061e+006	0.0226	0.1931	0.0822	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.6267	223.6267	4.2900e-003	4.1000e-003	224.9556
Enclosed Parking with Elevator		0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces		0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.0226</b>	<b>0.1931</b>	<b>0.0822</b>	<b>1.2300e-003</b>		<b>0.0156</b>	<b>0.0156</b>		<b>0.0156</b>	<b>0.0156</b>	<b>0.0000</b>	<b>223.6267</b>	<b>223.6267</b>	<b>4.2900e-003</b>	<b>4.1000e-003</b>	<b>224.9556</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.02656e+006	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.7019e+006	0.0000	0.0000	0.0000	0.0000
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			
Apartments Mid Rise	2.02656e+006	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.7019e+006	0.0000	0.0000	0.0000	0.0000
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**

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4768	0.0666	5.0928	3.2200e-003		0.2378	0.2378		0.2378	0.2378	21.8831	14.8240	36.7071	0.0408	1.4400e-003	38.1542
Unmitigated	3.4768	0.0666	5.0928	3.2200e-003		0.2378	0.2378		0.2378	0.2378	21.8831	14.8240	36.7071	0.0408	1.4400e-003	38.1542

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1075	0.0255	1.5251	3.0300e-003		0.2180	0.2180		0.2180	0.2180	21.8831	8.9884	30.8715	0.0352	1.4400e-003	32.1784
Landscaping	0.1076	0.0411	3.5677	1.9000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	5.8356	5.8356	5.6100e-003	0.0000	5.9759
<b>Total</b>	<b>3.4769</b>	<b>0.0666</b>	<b>5.0928</b>	<b>3.2200e-003</b>		<b>0.2378</b>	<b>0.2378</b>		<b>0.2378</b>	<b>0.2378</b>	<b>21.8831</b>	<b>14.8240</b>	<b>36.7071</b>	<b>0.0408</b>	<b>1.4400e-003</b>	<b>38.1543</b>

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9129					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1075	0.0255	1.5251	3.0300e-003		0.2180	0.2180		0.2180	0.2180	21.8831	8.9884	30.8715	0.0352	1.4400e-003	32.1784
Landscaping	0.1076	0.0411	3.5677	1.9000e-004		0.0198	0.0198		0.0198	0.0198	0.0000	5.8356	5.8356	5.6100e-003	0.0000	5.9759
<b>Total</b>	<b>3.4769</b>	<b>0.0666</b>	<b>5.0928</b>	<b>3.2200e-003</b>		<b>0.2378</b>	<b>0.2378</b>		<b>0.2378</b>	<b>0.2378</b>	<b>21.8831</b>	<b>14.8240</b>	<b>36.7071</b>	<b>0.0408</b>	<b>1.4400e-003</b>	<b>38.1543</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.9218	1.0191	0.0241	42.5689
Unmitigated	9.9218	1.0191	0.0241	42.5689

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	31.2739 / 19.7162	9.9218	1.0191	0.0241	42.5689
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.9218</b>	<b>1.0191</b>	<b>0.0241</b>	<b>42.5689</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	31.2739 / 19.7162	9.9218	1.0191	0.0241	42.5689
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000

557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

<b>Total</b>	<b>9.9218</b>	<b>1.0191</b>	<b>0.0241</b>	<b>42.5689</b>
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**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	44.8204	2.6488	0.0000	111.0407
Unmitigated	44.8204	2.6488	0.0000	111.0407

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	220.8	44.8204	2.6488	0.0000	111.0407
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000



557 E. Bayshore - Residential Development AQ-GHG CONSTRUCTION MODEL - San Mateo County, Annual

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

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>44.8204</b>	<b>2.6488</b>	<b>0.0000</b>	<b>111.0407</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	220.8	44.8204	2.6488	0.0000	111.0407
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>44.8204</b>	<b>2.6488</b>	<b>0.0000</b>	<b>111.0407</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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