

# Technical Memorandum

**To:** Romo Planning Group

**From:** Kevin P. Carr, MS., KPC EHS Consultants

**Date:** November 8, 2021

**Re:** TTM 20495: Highland and Palm Avenue Project - Air Quality/GHG Assessment

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## 1.0 Purpose

The purpose of this memorandum is to document the results of the air quality (AQ), greenhouse gas (GHG), and Localized Significant Threshold (LST) emissions assessment as it relates to the potential environmental impacts associated with the construction and operation of the proposed Project 134 Lots on 14.7 acres.

## 2.0 Project Location & Description

- 2.1 Project Location:** The proposed Project site is located on the west side of Palm Avenue and north of Highland Avenue and is referred to as APNs: 0285-211-05, 21, 22, 23, 24, & 25.
- 2.2 Description:** The Applicant is proposing a tentative tract map (TTM) # 20495 an approximately 14.7-acre vacant lot into 134 dwelling units. Construction includes the residential structures, site improvements, landscaping, and two open space lots.

## 3.0 Air Quality & Greenhouse Gas Assessment

- 3.1 Construction Emissions:** Construction emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Construction emissions are summarized in Table 3.1.

Construction emissions were based on CalEEMod default values for 134 dwelling units "Residential – Single Family Housing" land use, with a 360-day construction schedule, and default values for off-road construction equipment usage except for site preparation and grading as defaults are for a larger site in excess of 44 acres. Equipment defaults for

grading and site preparation were adjusted for the project’s 14.7-acre lot. Architectural coating schedule was extended from default to 40-days and in conjunction with the building construction phase.

**Table 3.1. Summary of Peak Construction Emissions \***

Year	Emissions (lbs/day)					
	VOC	NOX	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	52.27	28.16	20.28	0.04	3.88	2.45
<b>SCAQMD Regional Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

\* SCAQMD Fugitive Dust Rules Applied.

**3.2 Operational Emissions:** Operational emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Default values were used with the exception of no wood burning fireplaces. Operation emissions are summarized in Table 3.2.

**Table 3.2. Summary of Peak Operational Emissions**

Year	Emissions (lbs/day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	9.74	7.19	52.29	0.11	9.56	2.80
<b>SCAQMD Regional Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Threshold Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**3.3 Localized Significance Thresholds (LSTs):** According to the SCAQMD’s Localized Significance Thresholds (LSTs) methodology, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard. The proposed Project site is located in Source Receptor Area (SRA) 34 for determining the LST levels, the CalEEMod data was used for estimating Project emissions. The emissions levels are based on 2 acres of disturbance with a sensitive receptor at 25 meters. LST emissions are summarized in Table 3.3.

**Table 3.3. Summary of Localized Significance Emissions**

Emission Source	Emissions (lbs/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Construction	28.16	20.28	3.88	2.45
<b>SCAQMD Localized Construction Threshold</b>	<b>170</b>	<b>972</b>	<b>7</b>	<b>5</b>
Operation	7.19	52.29	0.29	0.29
<b>SCAQMD Localized Operation Threshold</b>	<b>170</b>	<b>972</b>	<b>4</b>	<b>1</b>
<b>Thresholds Exceeded?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

**3.4 Greenhouse Gas Emissions (GHG):** GHG emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Construction and operation emissions are summarized in Table 3.4

**Table 3.4. Project Greenhouse Gas Emissions**

Source	GHG Emissions MT/yr			
	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	CO <sub>2</sub> e
Mobile Sources	0.063	1,441.97	0.092	1,463.15
Area	0.0005	29.61	0.002	29.84
Energy	0.005	391.55	0.02	393.72
Solid Waste	0.000	31.87	1.88	78.97
Water/Wastewater	0.007	33.77	0.28	43.04
30-year Amortized Construction GHG				13.28
<b>TOTAL</b>				<b>2,022.00</b>
<b>SCAQMD Threshold</b>				<b>3,000</b>
<b>Exceed Threshold?</b>				<b>NO</b>

#### 4.0 Conclusion

Based on the assessment in Section 3.0 all estimated Project emissions for construction and operations are below the significance levels and as such impacts to the environment for Air Quality and Greenhouse Gases are less than significant.

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**Warmington Highland & Palm  
South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	14.70	241,200.00	383

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - acreage per site plan information

Construction Phase - No demolition phase - vacant property

Arch Coating chaged to overlap construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Changed default grading equipment due to site being only 14.7 acres

Off-road Equipment -

Off-road Equipment - Changed default Site Prep equipment due to site only 14.7 acres

Grading - Site is only 14.7 acres - changed total acres graded from default 90 to 14.7

Woodstoves - no wood burning fireplaces.

Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Warmington Highland & Palm - South Coast Air Basin, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	6/16/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	5/20/2023	4/3/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	13.40	20.10
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	60.00	14.70
tblLandUse	LotAcreage	43.51	14.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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Warmington Highland & Palm - South Coast Air Basin, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6544	28.1591	19.9797	0.0433	6.7094	1.2009	7.9103	3.4108	1.1048	4.5156	0.0000	4,195.2639	4,195.2639	1.3110	0.0537	4,229.1282
2023	52.2713	16.3239	20.2795	0.0381	0.7379	0.7771	1.5150	0.1977	0.7353	0.9331	0.0000	3,692.2420	3,692.2420	0.7368	0.0530	3,724.2495
<b>Maximum</b>	<b>52.2713</b>	<b>28.1591</b>	<b>20.2795</b>	<b>0.0433</b>	<b>6.7094</b>	<b>1.2009</b>	<b>7.9103</b>	<b>3.4108</b>	<b>1.1048</b>	<b>4.5156</b>	<b>0.0000</b>	<b>4,195.2639</b>	<b>4,195.2639</b>	<b>1.3110</b>	<b>0.0537</b>	<b>4,229.1282</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6544	28.1591	19.9797	0.0433	2.6825	1.2009	3.8834	1.3484	1.1048	2.4532	0.0000	4,195.2639	4,195.2639	1.3110	0.0537	4,229.1282
2023	52.2713	16.3239	20.2795	0.0381	0.5811	0.7771	1.3581	0.1592	0.7353	0.8946	0.0000	3,692.2420	3,692.2420	0.7368	0.0530	3,724.2495
<b>Maximum</b>	<b>52.2713</b>	<b>28.1591</b>	<b>20.2795</b>	<b>0.0433</b>	<b>2.6825</b>	<b>1.2009</b>	<b>3.8834</b>	<b>1.3484</b>	<b>1.1048</b>	<b>2.4532</b>	<b>0.0000</b>	<b>4,195.2639</b>	<b>4,195.2639</b>	<b>1.3110</b>	<b>0.0537</b>	<b>4,229.1282</b>

## Warmington Highland &amp; Palm - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.18	0.00	44.39	58.22	0.00	38.56	0.00	0.00	0.00	0.00	0.00	0.00

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.8849	4.2166	40.0272	0.0899	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		9,259.9983	9,259.9983	0.5608	0.3739	9,385.4405
<b>Total</b>	<b>9.7404</b>	<b>7.1905</b>	<b>52.2961</b>	<b>0.1087</b>	<b>9.2028</b>	<b>0.3548</b>	<b>9.5576</b>	<b>2.4522</b>	<b>0.3503</b>	<b>2.8025</b>	<b>0.0000</b>	<b>12,913.6449</b>	<b>12,913.6449</b>	<b>0.6496</b>	<b>0.4405</b>	<b>13,061.1591</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.8849	4.2166	40.0272	0.0899	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		9,259.9983	9,259.9983	0.5608	0.3739	9,385.4405
<b>Total</b>	<b>9.7404</b>	<b>7.1905</b>	<b>52.2961</b>	<b>0.1087</b>	<b>9.2028</b>	<b>0.3548</b>	<b>9.5576</b>	<b>2.4522</b>	<b>0.3503</b>	<b>2.8025</b>	<b>0.0000</b>	<b>12,913.6449</b>	<b>12,913.6449</b>	<b>0.6496</b>	<b>0.4405</b>	<b>13,061.1591</b>



Warmington Highland & Palm - South Coast Air Basin, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/25/2022	5	30	
3	Building Construction	Building Construction	2/26/2022	4/21/2023	5	300	
4	Paving	Paving	4/22/2023	5/19/2023	5	20	
5	Architectural Coating	Architectural Coating	4/3/2023	5/12/2023	5	30	

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 14.7**

**Acres of Paving: 0**

**Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48

Warmington Highland & Palm - South Coast Air Basin, Summer

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

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	48.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6
<b>Total</b>	<b>1.1665</b>	<b>12.1449</b>	<b>8.0579</b>	<b>0.0148</b>	<b>6.5523</b>	<b>0.5976</b>	<b>7.1499</b>	<b>3.3675</b>	<b>0.5498</b>	<b>3.9173</b>		<b>1,429.513 3</b>	<b>1,429.513 3</b>	<b>0.4623</b>		<b>1,441.071 6</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0193	0.3035	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		82.2200	82.2200	2.1400e-003	1.9500e-003	82.8547
<b>Total</b>	<b>0.0273</b>	<b>0.0193</b>	<b>0.3035</b>	<b>8.1000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>4.9000e-004</b>	<b>0.0242</b>		<b>82.2200</b>	<b>82.2200</b>	<b>2.1400e-003</b>	<b>1.9500e-003</b>	<b>82.8547</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.2 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.513 3	1,429.513 3	0.4623		1,441.071 6
<b>Total</b>	<b>1.1665</b>	<b>12.1449</b>	<b>8.0579</b>	<b>0.0148</b>	<b>2.5554</b>	<b>0.5976</b>	<b>3.1530</b>	<b>1.3133</b>	<b>0.5498</b>	<b>1.8631</b>	<b>0.0000</b>	<b>1,429.513 3</b>	<b>1,429.513 3</b>	<b>0.4623</b>		<b>1,441.071 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0273	0.0193	0.3035	8.1000e-004	0.0700	5.4000e-004	0.0705	0.0189	4.9000e-004	0.0194		82.2200	82.2200	2.1400e-003	1.9500e-003	82.8547
<b>Total</b>	<b>0.0273</b>	<b>0.0193</b>	<b>0.3035</b>	<b>8.1000e-004</b>	<b>0.0700</b>	<b>5.4000e-004</b>	<b>0.0705</b>	<b>0.0189</b>	<b>4.9000e-004</b>	<b>0.0194</b>		<b>82.2200</b>	<b>82.2200</b>	<b>2.1400e-003</b>	<b>1.9500e-003</b>	<b>82.8547</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5417	0.0000	6.5417	3.3663	0.0000	3.3663			0.0000			0.0000
Off-Road	2.6032	28.1230	19.4106	0.0417		1.1999	1.1999		1.1039	1.1039		4,041.1014	4,041.1014	1.3070		4,073.7757
<b>Total</b>	<b>2.6032</b>	<b>28.1230</b>	<b>19.4106</b>	<b>0.0417</b>	<b>6.5417</b>	<b>1.1999</b>	<b>7.7416</b>	<b>3.3663</b>	<b>1.1039</b>	<b>4.4702</b>		<b>4,041.1014</b>	<b>4,041.1014</b>	<b>1.3070</b>		<b>4,073.7757</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0361	0.5691	1.5200e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525
<b>Total</b>	<b>0.0512</b>	<b>0.0361</b>	<b>0.5691</b>	<b>1.5200e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>154.1626</b>	<b>154.1626</b>	<b>4.0100e-003</b>	<b>3.6600e-003</b>	<b>155.3525</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5513	0.0000	2.5513	1.3129	0.0000	1.3129			0.0000			0.0000
Off-Road	2.6032	28.1230	19.4106	0.0417		1.1999	1.1999		1.1039	1.1039	0.0000	4,041.101 4	4,041.101 4	1.3070		4,073.775 7
<b>Total</b>	<b>2.6032</b>	<b>28.1230</b>	<b>19.4106</b>	<b>0.0417</b>	<b>2.5513</b>	<b>1.1999</b>	<b>3.7511</b>	<b>1.3129</b>	<b>1.1039</b>	<b>2.4167</b>	<b>0.0000</b>	<b>4,041.101 4</b>	<b>4,041.101 4</b>	<b>1.3070</b>		<b>4,073.775 7</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0361	0.5691	1.5200e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525
<b>Total</b>	<b>0.0512</b>	<b>0.0361</b>	<b>0.5691</b>	<b>1.5200e-003</b>	<b>0.1312</b>	<b>1.0100e-003</b>	<b>0.1322</b>	<b>0.0355</b>	<b>9.3000e-004</b>	<b>0.0365</b>		<b>154.1626</b>	<b>154.1626</b>	<b>4.0100e-003</b>	<b>3.6600e-003</b>	<b>155.3525</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0256	0.6606	0.2210	2.6800e-003	0.0896	6.7300e-003	0.0964	0.0258	6.4400e-003	0.0322		289.1654	289.1654	0.0106	0.0420	301.9458
Worker	0.1638	0.1157	1.8211	4.8500e-003	0.5365	3.2200e-003	0.5398	0.1423	2.9600e-003	0.1453		493.3202	493.3202	0.0128	0.0117	497.1280
<b>Total</b>	<b>0.1894</b>	<b>0.7763</b>	<b>2.0421</b>	<b>7.5300e-003</b>	<b>0.6262</b>	<b>9.9500e-003</b>	<b>0.6361</b>	<b>0.1681</b>	<b>9.4000e-003</b>	<b>0.1775</b>		<b>782.4856</b>	<b>782.4856</b>	<b>0.0235</b>	<b>0.0537</b>	<b>799.0737</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0256	0.6606	0.2210	2.6800e-003	0.0737	6.7300e-003	0.0804	0.0219	6.4400e-003	0.0283		289.1654	289.1654	0.0106	0.0420	301.9458
Worker	0.1638	0.1157	1.8211	4.8500e-003	0.4199	3.2200e-003	0.4231	0.1137	2.9600e-003	0.1166		493.3202	493.3202	0.0128	0.0117	497.1280
<b>Total</b>	<b>0.1894</b>	<b>0.7763</b>	<b>2.0421</b>	<b>7.5300e-003</b>	<b>0.4936</b>	<b>9.9500e-003</b>	<b>0.5035</b>	<b>0.1356</b>	<b>9.4000e-003</b>	<b>0.1450</b>		<b>782.4856</b>	<b>782.4856</b>	<b>0.0235</b>	<b>0.0537</b>	<b>799.0737</b>



Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0150	0.5123	0.1966	2.5500e-003	0.0896	2.8300e-003	0.0925	0.0258	2.7100e-003	0.0285		275.2122	275.2122	0.0102	0.0399	287.3618
Worker	0.1519	0.1023	1.6782	4.6900e-003	0.5365	3.0300e-003	0.5396	0.1423	2.7900e-003	0.1451		480.3077	480.3077	0.0115	0.0108	483.8174
<b>Total</b>	<b>0.1669</b>	<b>0.6147</b>	<b>1.8748</b>	<b>7.2400e-003</b>	<b>0.6262</b>	<b>5.8600e-003</b>	<b>0.6320</b>	<b>0.1681</b>	<b>5.5000e-003</b>	<b>0.1736</b>		<b>755.5199</b>	<b>755.5199</b>	<b>0.0217</b>	<b>0.0507</b>	<b>771.1791</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0150	0.5123	0.1966	2.5500e-003	0.0737	2.8300e-003	0.0765	0.0219	2.7100e-003	0.0246		275.2122	275.2122	0.0102	0.0399	287.3618
Worker	0.1519	0.1023	1.6782	4.6900e-003	0.4199	3.0300e-003	0.4230	0.1137	2.7900e-003	0.1165		480.3077	480.3077	0.0115	0.0108	483.8174
<b>Total</b>	<b>0.1669</b>	<b>0.6147</b>	<b>1.8748</b>	<b>7.2400e-003</b>	<b>0.4936</b>	<b>5.8600e-003</b>	<b>0.4995</b>	<b>0.1356</b>	<b>5.5000e-003</b>	<b>0.1411</b>		<b>755.5199</b>	<b>755.5199</b>	<b>0.0217</b>	<b>0.0507</b>	<b>771.1791</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0475	0.0320	0.5244	1.4700e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929
<b>Total</b>	<b>0.0475</b>	<b>0.0320</b>	<b>0.5244</b>	<b>1.4700e-003</b>	<b>0.1677</b>	<b>9.5000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.7000e-004</b>	<b>0.0453</b>		<b>150.0962</b>	<b>150.0962</b>	<b>3.6000e-003</b>	<b>3.3800e-003</b>	<b>151.1929</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0475	0.0320	0.5244	1.4700e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929
<b>Total</b>	<b>0.0475</b>	<b>0.0320</b>	<b>0.5244</b>	<b>1.4700e-003</b>	<b>0.1312</b>	<b>9.5000e-004</b>	<b>0.1322</b>	<b>0.0355</b>	<b>8.7000e-004</b>	<b>0.0364</b>		<b>150.0962</b>	<b>150.0962</b>	<b>3.6000e-003</b>	<b>3.3800e-003</b>	<b>151.1929</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.3083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>50.5000</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0317	0.0213	0.3496	9.8000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		100.0641	100.0641	2.4000e-003	2.2500e-003	100.7953
<b>Total</b>	<b>0.0317</b>	<b>0.0213</b>	<b>0.3496</b>	<b>9.8000e-004</b>	<b>0.1118</b>	<b>6.3000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.8000e-004</b>	<b>0.0302</b>		<b>100.0641</b>	<b>100.0641</b>	<b>2.4000e-003</b>	<b>2.2500e-003</b>	<b>100.7953</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.3083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>50.5000</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0317	0.0213	0.3496	9.8000e-004	0.0875	6.3000e-004	0.0881	0.0237	5.8000e-004	0.0243		100.0641	100.0641	2.4000e-003	2.2500e-003	100.7953
<b>Total</b>	<b>0.0317</b>	<b>0.0213</b>	<b>0.3496</b>	<b>9.8000e-004</b>	<b>0.0875</b>	<b>6.3000e-004</b>	<b>0.0881</b>	<b>0.0237</b>	<b>5.8000e-004</b>	<b>0.0243</b>		<b>100.0641</b>	<b>100.0641</b>	<b>2.4000e-003</b>	<b>2.2500e-003</b>	<b>100.7953</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8849	4.2166	40.0272	0.0899	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		9,259,998 3	9,259,998 3	0.5608	0.3739	9,385,440 5
Unmitigated	3.8849	4.2166	40.0272	0.0899	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		9,259,998 3	9,259,998 3	0.5608	0.3739	9,385,440 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,264.96	1,278.36	1145.70	4,270,883	4,270,883
Total	1,264.96	1,278.36	1,145.70	4,270,883	4,270,883

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
NaturalGas Unmitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	10384.8	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
<b>Total</b>		<b>0.1120</b>	<b>0.9570</b>	<b>0.4073</b>	<b>6.1100e-003</b>		<b>0.0774</b>	<b>0.0774</b>		<b>0.0774</b>	<b>0.0774</b>		<b>1,221.7405</b>	<b>1,221.7405</b>	<b>0.0234</b>	<b>0.0224</b>	<b>1,229.0007</b>



Warmington Highland & Palm - South Coast Air Basin, Summer

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	10.3848	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
<b>Total</b>		<b>0.1120</b>	<b>0.9570</b>	<b>0.4073</b>	<b>6.1100e-003</b>		<b>0.0774</b>	<b>0.0774</b>		<b>0.0774</b>	<b>0.0774</b>		<b>1,221.7405</b>	<b>1,221.7405</b>	<b>0.0234</b>	<b>0.0224</b>	<b>1,229.0007</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Unmitigated	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2211	1.8894	0.8040	0.0121		0.1528	0.1528		0.1528	0.1528	0.0000	2,412.0000	2,412.0000	0.0462	0.0442	2,426.3333
Landscaping	0.3331	0.1275	11.0576	5.8000e-004		0.0612	0.0612		0.0612	0.0612		19.9060	19.9060	0.0191		20.3846
<b>Total</b>	<b>5.7435</b>	<b>2.0169</b>	<b>11.8616</b>	<b>0.0126</b>		<b>0.2140</b>	<b>0.2140</b>		<b>0.2140</b>	<b>0.2140</b>	<b>0.0000</b>	<b>2,431.9060</b>	<b>2,431.9060</b>	<b>0.0654</b>	<b>0.0442</b>	<b>2,446.7179</b>

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2211	1.8894	0.8040	0.0121		0.1528	0.1528		0.1528	0.1528	0.0000	2,412.0000	2,412.0000	0.0462	0.0442	2,426.3333
Landscaping	0.3331	0.1275	11.0576	5.8000e-004		0.0612	0.0612		0.0612	0.0612		19.9060	19.9060	0.0191		20.3846
<b>Total</b>	<b>5.7435</b>	<b>2.0169</b>	<b>11.8616</b>	<b>0.0126</b>		<b>0.2140</b>	<b>0.2140</b>		<b>0.2140</b>	<b>0.2140</b>	<b>0.0000</b>	<b>2,431.9060</b>	<b>2,431.9060</b>	<b>0.0654</b>	<b>0.0442</b>	<b>2,446.7179</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Warmington Highland & Palm - South Coast Air Basin, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Warmington Highland & Palm - South Coast Air Basin, Winter

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

**Warmington Highland & Palm**

**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	14.70	241,200.00	383

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - acreage per site plan information

Construction Phase - No demolition phase - vacant property

Arch Coating chaged to overlap construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Changed default grading equipment due to site being only 14.7 acres

Off-road Equipment -

Off-road Equipment - Changed default Site Prep equipment due to site only 14.7 acres

Grading - Site is only 14.7 acres - changed total acres graded from default 90 to 14.7

Woodstoves - no wood burning fireplaces.

Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Warmington Highland & Palm - South Coast Air Basin, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	6/16/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	5/20/2023	4/3/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	13.40	20.10
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	60.00	14.70
tblLandUse	LotAcreage	43.51	14.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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Warmington Highland & Palm - South Coast Air Basin, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6575	28.1627	19.9288	0.0432	6.7094	1.2009	7.9103	3.4108	1.1048	4.5156	0.0000	4,186.6535	4,186.6535	1.3110	0.0545	4,220.5881
2023	52.2826	16.3600	20.1064	0.0378	0.7379	0.7771	1.5150	0.1977	0.7353	0.9331	0.0000	3,660.3545	3,660.3545	0.7369	0.0539	3,692.6404
<b>Maximum</b>	<b>52.2826</b>	<b>28.1627</b>	<b>20.1064</b>	<b>0.0432</b>	<b>6.7094</b>	<b>1.2009</b>	<b>7.9103</b>	<b>3.4108</b>	<b>1.1048</b>	<b>4.5156</b>	<b>0.0000</b>	<b>4,186.6535</b>	<b>4,186.6535</b>	<b>1.3110</b>	<b>0.0545</b>	<b>4,220.5881</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.6575	28.1627	19.9288	0.0432	2.6825	1.2009	3.8834	1.3484	1.1048	2.4532	0.0000	4,186.6535	4,186.6535	1.3110	0.0545	4,220.5880
2023	52.2826	16.3600	20.1064	0.0378	0.5811	0.7771	1.3581	0.1592	0.7353	0.8946	0.0000	3,660.3545	3,660.3545	0.7369	0.0539	3,692.6404
<b>Maximum</b>	<b>52.2826</b>	<b>28.1627</b>	<b>20.1064</b>	<b>0.0432</b>	<b>2.6825</b>	<b>1.2009</b>	<b>3.8834</b>	<b>1.3484</b>	<b>1.1048</b>	<b>2.4532</b>	<b>0.0000</b>	<b>4,186.6535</b>	<b>4,186.6535</b>	<b>1.3110</b>	<b>0.0545</b>	<b>4,220.5880</b>

## Warmington Highland &amp; Palm - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.18	0.00	44.39	58.22	0.00	38.56	0.00	0.00	0.00	0.00	0.00	0.00



Warmington Highland & Palm - South Coast Air Basin, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.7817	4.5337	38.7569	0.0859	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		8,844.4994	8,844.4994	0.5767	0.3892	8,974.9064
<b>Total</b>	<b>9.6372</b>	<b>7.5076</b>	<b>51.0258</b>	<b>0.1046</b>	<b>9.2028</b>	<b>0.3548</b>	<b>9.5576</b>	<b>2.4522</b>	<b>0.3504</b>	<b>2.8026</b>	<b>0.0000</b>	<b>12,498.1459</b>	<b>12,498.1459</b>	<b>0.6655</b>	<b>0.4559</b>	<b>12,650.6250</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.7817	4.5337	38.7569	0.0859	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		8,844.4994	8,844.4994	0.5767	0.3892	8,974.9064
<b>Total</b>	<b>9.6372</b>	<b>7.5076</b>	<b>51.0258</b>	<b>0.1046</b>	<b>9.2028</b>	<b>0.3548</b>	<b>9.5576</b>	<b>2.4522</b>	<b>0.3504</b>	<b>2.8026</b>	<b>0.0000</b>	<b>12,498.1459</b>	<b>12,498.1459</b>	<b>0.6655</b>	<b>0.4559</b>	<b>12,650.6250</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/25/2022	5	30	
3	Building Construction	Building Construction	2/26/2022	4/21/2023	5	300	
4	Paving	Paving	4/22/2023	5/19/2023	5	20	
5	Architectural Coating	Architectural Coating	4/3/2023	5/12/2023	5	30	

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 14.7**

**Acres of Paving: 0**

**Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48

Warmington Highland & Palm - South Coast Air Basin, Winter

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

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	48.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498		1,429.513 3	1,429.513 3	0.4623		1,441.071 6
<b>Total</b>	<b>1.1665</b>	<b>12.1449</b>	<b>8.0579</b>	<b>0.0148</b>	<b>6.5523</b>	<b>0.5976</b>	<b>7.1499</b>	<b>3.3675</b>	<b>0.5498</b>	<b>3.9173</b>		<b>1,429.513 3</b>	<b>1,429.513 3</b>	<b>0.4623</b>		<b>1,441.071 6</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2764	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.6278	77.6278	2.1700e-003	2.0700e-003	78.2999
<b>Total</b>	<b>0.0290</b>	<b>0.0212</b>	<b>0.2764</b>	<b>7.6000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>4.9000e-004</b>	<b>0.0242</b>		<b>77.6278</b>	<b>77.6278</b>	<b>2.1700e-003</b>	<b>2.0700e-003</b>	<b>78.2999</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.2 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.1665	12.1449	8.0579	0.0148		0.5976	0.5976		0.5498	0.5498	0.0000	1,429.513 3	1,429.513 3	0.4623		1,441.071 6
<b>Total</b>	<b>1.1665</b>	<b>12.1449</b>	<b>8.0579</b>	<b>0.0148</b>	<b>2.5554</b>	<b>0.5976</b>	<b>3.1530</b>	<b>1.3133</b>	<b>0.5498</b>	<b>1.8631</b>	<b>0.0000</b>	<b>1,429.513 3</b>	<b>1,429.513 3</b>	<b>0.4623</b>		<b>1,441.071 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2764	7.6000e-004	0.0700	5.4000e-004	0.0705	0.0189	4.9000e-004	0.0194		77.6278	77.6278	2.1700e-003	2.0700e-003	78.2999
<b>Total</b>	<b>0.0290</b>	<b>0.0212</b>	<b>0.2764</b>	<b>7.6000e-004</b>	<b>0.0700</b>	<b>5.4000e-004</b>	<b>0.0705</b>	<b>0.0189</b>	<b>4.9000e-004</b>	<b>0.0194</b>		<b>77.6278</b>	<b>77.6278</b>	<b>2.1700e-003</b>	<b>2.0700e-003</b>	<b>78.2999</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5417	0.0000	6.5417	3.3663	0.0000	3.3663			0.0000			0.0000
Off-Road	2.6032	28.1230	19.4106	0.0417		1.1999	1.1999		1.1039	1.1039		4,041.1014	4,041.1014	1.3070		4,073.7757
<b>Total</b>	<b>2.6032</b>	<b>28.1230</b>	<b>19.4106</b>	<b>0.0417</b>	<b>6.5417</b>	<b>1.1999</b>	<b>7.7416</b>	<b>3.3663</b>	<b>1.1039</b>	<b>4.4702</b>		<b>4,041.1014</b>	<b>4,041.1014</b>	<b>1.3070</b>		<b>4,073.7757</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0543	0.0397	0.5182	1.4300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123
<b>Total</b>	<b>0.0543</b>	<b>0.0397</b>	<b>0.5182</b>	<b>1.4300e-003</b>	<b>0.1677</b>	<b>1.0100e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.3000e-004</b>	<b>0.0454</b>		<b>145.5522</b>	<b>145.5522</b>	<b>4.0600e-003</b>	<b>3.8900e-003</b>	<b>146.8123</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5513	0.0000	2.5513	1.3129	0.0000	1.3129			0.0000			0.0000
Off-Road	2.6032	28.1230	19.4106	0.0417		1.1999	1.1999		1.1039	1.1039	0.0000	4,041.1014	4,041.1014	1.3070		4,073.7757
<b>Total</b>	<b>2.6032</b>	<b>28.1230</b>	<b>19.4106</b>	<b>0.0417</b>	<b>2.5513</b>	<b>1.1999</b>	<b>3.7511</b>	<b>1.3129</b>	<b>1.1039</b>	<b>2.4167</b>	<b>0.0000</b>	<b>4,041.1014</b>	<b>4,041.1014</b>	<b>1.3070</b>		<b>4,073.7757</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0543	0.0397	0.5182	1.4300e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123
<b>Total</b>	<b>0.0543</b>	<b>0.0397</b>	<b>0.5182</b>	<b>1.4300e-003</b>	<b>0.1312</b>	<b>1.0100e-003</b>	<b>0.1322</b>	<b>0.0355</b>	<b>9.3000e-004</b>	<b>0.0365</b>		<b>145.5522</b>	<b>145.5522</b>	<b>4.0600e-003</b>	<b>3.8900e-003</b>	<b>146.8123</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0252	0.6880	0.2288	2.6800e-003	0.0896	6.7600e-003	0.0964	0.0258	6.4600e-003	0.0323		289.2703	289.2703	0.0106	0.0420	302.0638
Worker	0.1739	0.1269	1.6582	4.5800e-003	0.5365	3.2200e-003	0.5398	0.1423	2.9600e-003	0.1453		465.7669	465.7669	0.0130	0.0124	469.7995
<b>Total</b>	<b>0.1990</b>	<b>0.8149</b>	<b>1.8871</b>	<b>7.2600e-003</b>	<b>0.6262</b>	<b>9.9800e-003</b>	<b>0.6361</b>	<b>0.1681</b>	<b>9.4200e-003</b>	<b>0.1775</b>		<b>755.0372</b>	<b>755.0372</b>	<b>0.0236</b>	<b>0.0545</b>	<b>771.8632</b>



Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0252	0.6880	0.2288	2.6800e-003	0.0737	6.7600e-003	0.0804	0.0219	6.4600e-003	0.0284		289.2703	289.2703	0.0106	0.0420	302.0638
Worker	0.1739	0.1269	1.6582	4.5800e-003	0.4199	3.2200e-003	0.4231	0.1137	2.9600e-003	0.1166		465.7669	465.7669	0.0130	0.0124	469.7995
<b>Total</b>	<b>0.1990</b>	<b>0.8149</b>	<b>1.8871</b>	<b>7.2600e-003</b>	<b>0.4936</b>	<b>9.9800e-003</b>	<b>0.5036</b>	<b>0.1356</b>	<b>9.4200e-003</b>	<b>0.1450</b>		<b>755.0372</b>	<b>755.0372</b>	<b>0.0236</b>	<b>0.0545</b>	<b>771.8632</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.5365	0.2029	2.5500e-003	0.0896	2.8500e-003	0.0925	0.0258	2.7200e-003	0.0285		275.6697	275.6697	0.0102	0.0400	287.8478
Worker	0.1618	0.1123	1.5297	4.4300e-003	0.5365	3.0300e-003	0.5396	0.1423	2.7900e-003	0.1451		453.5395	453.5395	0.0117	0.0115	457.2559
<b>Total</b>	<b>0.1762</b>	<b>0.6487</b>	<b>1.7326</b>	<b>6.9800e-003</b>	<b>0.6262</b>	<b>5.8800e-003</b>	<b>0.6320</b>	<b>0.1681</b>	<b>5.5100e-003</b>	<b>0.1736</b>		<b>729.2092</b>	<b>729.2092</b>	<b>0.0218</b>	<b>0.0515</b>	<b>745.1037</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.5365	0.2029	2.5500e-003	0.0737	2.8500e-003	0.0765	0.0219	2.7200e-003	0.0246		275.6697	275.6697	0.0102	0.0400	287.8478
Worker	0.1618	0.1123	1.5297	4.4300e-003	0.4199	3.0300e-003	0.4230	0.1137	2.7900e-003	0.1165		453.5395	453.5395	0.0117	0.0115	457.2559
<b>Total</b>	<b>0.1762</b>	<b>0.6487</b>	<b>1.7326</b>	<b>6.9800e-003</b>	<b>0.4936</b>	<b>5.8800e-003</b>	<b>0.4995</b>	<b>0.1356</b>	<b>5.5100e-003</b>	<b>0.1411</b>		<b>729.2092</b>	<b>729.2092</b>	<b>0.0218</b>	<b>0.0515</b>	<b>745.1037</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0506	0.0351	0.4780	1.3800e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925
<b>Total</b>	<b>0.0506</b>	<b>0.0351</b>	<b>0.4780</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>9.5000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.7000e-004</b>	<b>0.0453</b>		<b>141.7311</b>	<b>141.7311</b>	<b>3.6500e-003</b>	<b>3.5900e-003</b>	<b>142.8925</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0327</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0506	0.0351	0.4780	1.3800e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925
<b>Total</b>	<b>0.0506</b>	<b>0.0351</b>	<b>0.4780</b>	<b>1.3800e-003</b>	<b>0.1312</b>	<b>9.5000e-004</b>	<b>0.1322</b>	<b>0.0355</b>	<b>8.7000e-004</b>	<b>0.0364</b>		<b>141.7311</b>	<b>141.7311</b>	<b>3.6500e-003</b>	<b>3.5900e-003</b>	<b>142.8925</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.3083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>50.5000</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0234	0.3187	9.2000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		94.4874	94.4874	2.4300e-003	2.3900e-003	95.2617
<b>Total</b>	<b>0.0337</b>	<b>0.0234</b>	<b>0.3187</b>	<b>9.2000e-004</b>	<b>0.1118</b>	<b>6.3000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.8000e-004</b>	<b>0.0302</b>		<b>94.4874</b>	<b>94.4874</b>	<b>2.4300e-003</b>	<b>2.3900e-003</b>	<b>95.2617</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.3083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>50.5000</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0234	0.3187	9.2000e-004	0.0875	6.3000e-004	0.0881	0.0237	5.8000e-004	0.0243		94.4874	94.4874	2.4300e-003	2.3900e-003	95.2617
<b>Total</b>	<b>0.0337</b>	<b>0.0234</b>	<b>0.3187</b>	<b>9.2000e-004</b>	<b>0.0875</b>	<b>6.3000e-004</b>	<b>0.0881</b>	<b>0.0237</b>	<b>5.8000e-004</b>	<b>0.0243</b>		<b>94.4874</b>	<b>94.4874</b>	<b>2.4300e-003</b>	<b>2.3900e-003</b>	<b>95.2617</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7817	4.5337	38.7569	0.0859	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		8,844.499 4	8,844.499 4	0.5767	0.3892	8,974.906 4
Unmitigated	3.7817	4.5337	38.7569	0.0859	9.2028	0.0635	9.2662	2.4522	0.0590	2.5112		8,844.499 4	8,844.499 4	0.5767	0.3892	8,974.906 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,264.96	1,278.36	1145.70	4,270,883	4,270,883
Total	1,264.96	1,278.36	1,145.70	4,270,883	4,270,883

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774



Warmington Highland & Palm - South Coast Air Basin, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
NaturalGas Unmitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	10384.8	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
<b>Total</b>		<b>0.1120</b>	<b>0.9570</b>	<b>0.4073</b>	<b>6.1100e-003</b>		<b>0.0774</b>	<b>0.0774</b>		<b>0.0774</b>	<b>0.0774</b>		<b>1,221.7405</b>	<b>1,221.7405</b>	<b>0.0234</b>	<b>0.0224</b>	<b>1,229.0007</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	10.3848	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
<b>Total</b>		<b>0.1120</b>	<b>0.9570</b>	<b>0.4073</b>	<b>6.1100e-003</b>		<b>0.0774</b>	<b>0.0774</b>		<b>0.0774</b>	<b>0.0774</b>		<b>1,221.7405</b>	<b>1,221.7405</b>	<b>0.0234</b>	<b>0.0224</b>	<b>1,229.0007</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179
Unmitigated	5.7435	2.0169	11.8616	0.0126		0.2140	0.2140		0.2140	0.2140	0.0000	2,431.9060	2,431.9060	0.0654	0.0442	2,446.7179

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2211	1.8894	0.8040	0.0121		0.1528	0.1528		0.1528	0.1528	0.0000	2,412.0000	2,412.0000	0.0462	0.0442	2,426.3333
Landscaping	0.3331	0.1275	11.0576	5.8000e-004		0.0612	0.0612		0.0612	0.0612		19.9060	19.9060	0.0191		20.3846
<b>Total</b>	<b>5.7435</b>	<b>2.0169</b>	<b>11.8616</b>	<b>0.0126</b>		<b>0.2140</b>	<b>0.2140</b>		<b>0.2140</b>	<b>0.2140</b>	<b>0.0000</b>	<b>2,431.9060</b>	<b>2,431.9060</b>	<b>0.0654</b>	<b>0.0442</b>	<b>2,446.7179</b>

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7758					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2211	1.8894	0.8040	0.0121		0.1528	0.1528		0.1528	0.1528	0.0000	2,412.0000	2,412.0000	0.0462	0.0442	2,426.3333
Landscaping	0.3331	0.1275	11.0576	5.8000e-004		0.0612	0.0612		0.0612	0.0612		19.9060	19.9060	0.0191		20.3846
<b>Total</b>	<b>5.7435</b>	<b>2.0169</b>	<b>11.8616</b>	<b>0.0126</b>		<b>0.2140</b>	<b>0.2140</b>		<b>0.2140</b>	<b>0.2140</b>	<b>0.0000</b>	<b>2,431.9060</b>	<b>2,431.9060</b>	<b>0.0654</b>	<b>0.0442</b>	<b>2,446.7179</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Warmington Highland & Palm - South Coast Air Basin, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Warmington Highland & Palm - South Coast Air Basin, Annual

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

**Warmington Highland & Palm**

**South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	14.70	241,200.00	383

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - acreage per site plan information

Construction Phase - No demolition phase - vacant property

Arch Coating chaged to overlap construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Changed default grading equipment due to site being only 14.7 acres

Off-road Equipment -

Off-road Equipment - Changed default Site Prep equipment due to site only 14.7 acres

Grading - Site is only 14.7 acres - changed total acres graded from default 90 to 14.7

Woodstoves - no wood burning fireplaces.

Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Warmington Highland & Palm - South Coast Air Basin, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	6/16/2023	5/12/2023
tblConstructionPhase	PhaseStartDate	5/20/2023	4/3/2023
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	13.40	20.10
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	60.00	14.70
tblLandUse	LotAcreage	43.51	14.70
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2539	2.2916	2.3526	4.4900e-003	0.2014	0.1111	0.3125	0.0863	0.1041	0.1904	0.0000	394.7367	394.7367	0.0834	5.5200e-003	398.4661
2023	0.8382	0.7237	0.9033	1.6600e-003	0.0279	0.0344	0.0623	7.4900e-003	0.0323	0.0398	0.0000	145.8707	145.8707	0.0296	1.9400e-003	147.1896
<b>Maximum</b>	<b>0.8382</b>	<b>2.2916</b>	<b>2.3526</b>	<b>4.4900e-003</b>	<b>0.2014</b>	<b>0.1111</b>	<b>0.3125</b>	<b>0.0863</b>	<b>0.1041</b>	<b>0.1904</b>	<b>0.0000</b>	<b>394.7367</b>	<b>394.7367</b>	<b>0.0834</b>	<b>5.5200e-003</b>	<b>398.4661</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					
2022	0.2539	2.2916	2.3526	4.4900e-003	0.1067	0.1111	0.2178	0.0416	0.1041	0.1457	0.0000	394.7363	394.7363	0.0834	5.5200e-003	398.4657
2023	0.8382	0.7237	0.9033	1.6600e-003	0.0220	0.0344	0.0564	6.0400e-003	0.0323	0.0384	0.0000	145.8705	145.8705	0.0296	1.9400e-003	147.1894
<b>Maximum</b>	<b>0.8382</b>	<b>2.2916</b>	<b>2.3526</b>	<b>4.4900e-003</b>	<b>0.1067</b>	<b>0.1111</b>	<b>0.2178</b>	<b>0.0416</b>	<b>0.1041</b>	<b>0.1457</b>	<b>0.0000</b>	<b>394.7363</b>	<b>394.7363</b>	<b>0.0834</b>	<b>5.5200e-003</b>	<b>398.4657</b>



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	43.89	0.00	26.85	49.24	0.00	20.06	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.7553	0.7553
2	4-3-2022	7-2-2022	0.5943	0.5943
3	7-3-2022	10-2-2022	0.6009	0.6009
4	10-3-2022	1-2-2023	0.6014	0.6014
5	1-3-2023	4-2-2023	0.5394	0.5394
6	4-3-2023	7-2-2023	0.9674	0.9674
		Highest	0.9674	0.9674

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9914	0.0396	1.3923	2.2000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	29.6089	29.6089	2.6900e-003	5.0000e-004	29.8257
Energy	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	391.5474	391.5474	0.0199	5.6400e-003	393.7259
Mobile	0.6612	0.8190	6.9724	0.0154	1.6076	0.0113	1.6188	0.4290	0.0105	0.4395	0.0000	1,441.9773	1,441.9773	0.0927	0.0633	1,463.1509
Waste						0.0000	0.0000		0.0000	0.0000	31.8757	0.0000	31.8757	1.8838	0.0000	78.9706
Water						0.0000	0.0000		0.0000	0.0000	2.7698	31.0057	33.7755	0.2871	7.0300e-003	43.0495
<b>Total</b>	<b>1.6730</b>	<b>1.0332</b>	<b>8.4390</b>	<b>0.0168</b>	<b>1.6076</b>	<b>0.0350</b>	<b>1.6425</b>	<b>0.4290</b>	<b>0.0342</b>	<b>0.4632</b>	<b>34.6455</b>	<b>1,894.1394</b>	<b>1,928.7849</b>	<b>2.2862</b>	<b>0.0764</b>	<b>2,008.7226</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9914	0.0396	1.3923	2.2000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	29.6089	29.6089	2.6900e-003	5.0000e-004	29.8257
Energy	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	391.5474	391.5474	0.0199	5.6400e-003	393.7259
Mobile	0.6612	0.8190	6.9724	0.0154	1.6076	0.0113	1.6188	0.4290	0.0105	0.4395	0.0000	1,441.9773	1,441.9773	0.0927	0.0633	1,463.1509
Waste						0.0000	0.0000		0.0000	0.0000	31.8757	0.0000	31.8757	1.8838	0.0000	78.9706
Water						0.0000	0.0000		0.0000	0.0000	2.7698	31.0057	33.7755	0.2871	7.0300e-003	43.0495
<b>Total</b>	<b>1.6730</b>	<b>1.0332</b>	<b>8.4390</b>	<b>0.0168</b>	<b>1.6076</b>	<b>0.0350</b>	<b>1.6425</b>	<b>0.4290</b>	<b>0.0342</b>	<b>0.4632</b>	<b>34.6455</b>	<b>1,894.1394</b>	<b>1,928.7849</b>	<b>2.2862</b>	<b>0.0764</b>	<b>2,008.7226</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/25/2022	5	30	
3	Building Construction	Building Construction	2/26/2022	4/21/2023	5	300	

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

4	Paving	Paving	4/22/2023	5/19/2023	5	20
5	Architectural Coating	Architectural Coating	4/3/2023	5/12/2023	5	30

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 14.7**

**Acres of Paving: 0**

**Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	48.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0607</b>	<b>0.0403</b>	<b>7.0000e-005</b>	<b>0.0328</b>	<b>2.9900e-003</b>	<b>0.0358</b>	<b>0.0168</b>	<b>2.7500e-003</b>	<b>0.0196</b>	<b>0.0000</b>	<b>6.4842</b>	<b>6.4842</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>6.5366</b>

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.1000e-004	1.4200e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3571	0.3571	1.0000e-005	1.0000e-005	0.3602
<b>Total</b>	<b>1.3000e-004</b>	<b>1.1000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3571</b>	<b>0.3571</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3602</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					0.0128	0.0000	0.0128	6.5700e-003	0.0000	6.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8300e-003	0.0607	0.0403	7.0000e-005		2.9900e-003	2.9900e-003		2.7500e-003	2.7500e-003	0.0000	6.4842	6.4842	2.1000e-003	0.0000	6.5366
<b>Total</b>	<b>5.8300e-003</b>	<b>0.0607</b>	<b>0.0403</b>	<b>7.0000e-005</b>	<b>0.0128</b>	<b>2.9900e-003</b>	<b>0.0158</b>	<b>6.5700e-003</b>	<b>2.7500e-003</b>	<b>9.3200e-003</b>	<b>0.0000</b>	<b>6.4842</b>	<b>6.4842</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>6.5366</b>

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.1000e-004	1.4200e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3571	0.3571	1.0000e-005	1.0000e-005	0.3602
<b>Total</b>	<b>1.3000e-004</b>	<b>1.1000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3571</b>	<b>0.3571</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3602</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0981	0.0000	0.0981	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.4218	0.2912	6.3000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	54.9904	54.9904	0.0178	0.0000	55.4350
<b>Total</b>	<b>0.0391</b>	<b>0.4218</b>	<b>0.2912</b>	<b>6.3000e-004</b>	<b>0.0981</b>	<b>0.0180</b>	<b>0.1161</b>	<b>0.0505</b>	<b>0.0166</b>	<b>0.0671</b>	<b>0.0000</b>	<b>54.9904</b>	<b>54.9904</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.4350</b>

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.1000e-004	7.9700e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	2.0087	2.0087	6.0000e-005	5.0000e-005	2.0261
<b>Total</b>	<b>7.5000e-004</b>	<b>6.1000e-004</b>	<b>7.9700e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4800e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.0087</b>	<b>2.0087</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0261</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					0.0383	0.0000	0.0383	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.4218	0.2912	6.3000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	54.9903	54.9903	0.0178	0.0000	55.4349
<b>Total</b>	<b>0.0391</b>	<b>0.4218</b>	<b>0.2912</b>	<b>6.3000e-004</b>	<b>0.0383</b>	<b>0.0180</b>	<b>0.0563</b>	<b>0.0197</b>	<b>0.0166</b>	<b>0.0363</b>	<b>0.0000</b>	<b>54.9903</b>	<b>54.9903</b>	<b>0.0178</b>	<b>0.0000</b>	<b>55.4349</b>



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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.1000e-004	7.9700e-003	2.0000e-005	1.9300e-003	2.0000e-005	1.9500e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	2.0087	2.0087	6.0000e-005	5.0000e-005	2.0261
<b>Total</b>	<b>7.5000e-004</b>	<b>6.1000e-004</b>	<b>7.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>2.0000e-005</b>	<b>1.9500e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>2.0087</b>	<b>2.0087</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>2.0261</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1877	1.7177	1.8000	2.9600e-003		0.0890	0.0890		0.0837	0.0837	0.0000	254.8978	254.8978	0.0611	0.0000	256.4244
<b>Total</b>	<b>0.1877</b>	<b>1.7177</b>	<b>1.8000</b>	<b>2.9600e-003</b>		<b>0.0890</b>	<b>0.0890</b>		<b>0.0837</b>	<b>0.0837</b>	<b>0.0000</b>	<b>254.8978</b>	<b>254.8978</b>	<b>0.0611</b>	<b>0.0000</b>	<b>256.4244</b>

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7900e-003	0.0763	0.0247	3.0000e-004	9.7100e-003	7.4000e-004	0.0105	2.8000e-003	7.1000e-004	3.5100e-003	0.0000	28.8604	28.8604	1.0600e-003	4.1900e-003	30.1369
Worker	0.0177	0.0143	0.1871	5.1000e-004	0.0579	3.5000e-004	0.0583	0.0154	3.3000e-004	0.0157	0.0000	47.1382	47.1382	1.3000e-003	1.2600e-003	47.5468
<b>Total</b>	<b>0.0205</b>	<b>0.0906</b>	<b>0.2118</b>	<b>8.1000e-004</b>	<b>0.0676</b>	<b>1.0900e-003</b>	<b>0.0687</b>	<b>0.0182</b>	<b>1.0400e-003</b>	<b>0.0192</b>	<b>0.0000</b>	<b>75.9985</b>	<b>75.9985</b>	<b>2.3600e-003</b>	<b>5.4500e-003</b>	<b>77.6837</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1877	1.7177	1.8000	2.9600e-003		0.0890	0.0890		0.0837	0.0837	0.0000	254.8975	254.8975	0.0611	0.0000	256.4241
<b>Total</b>	<b>0.1877</b>	<b>1.7177</b>	<b>1.8000</b>	<b>2.9600e-003</b>		<b>0.0890</b>	<b>0.0890</b>		<b>0.0837</b>	<b>0.0837</b>	<b>0.0000</b>	<b>254.8975</b>	<b>254.8975</b>	<b>0.0611</b>	<b>0.0000</b>	<b>256.4241</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7900e-003	0.0763	0.0247	3.0000e-004	7.9900e-003	7.4000e-004	8.7300e-003	2.3800e-003	7.1000e-004	3.0900e-003	0.0000	28.8604	28.8604	1.0600e-003	4.1900e-003	30.1369
Worker	0.0177	0.0143	0.1871	5.1000e-004	0.0454	3.5000e-004	0.0457	0.0123	3.3000e-004	0.0126	0.0000	47.1382	47.1382	1.3000e-003	1.2600e-003	47.5468
<b>Total</b>	<b>0.0205</b>	<b>0.0906</b>	<b>0.2118</b>	<b>8.1000e-004</b>	<b>0.0534</b>	<b>1.0900e-003</b>	<b>0.0545</b>	<b>0.0147</b>	<b>1.0400e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>75.9985</b>	<b>75.9985</b>	<b>2.3600e-003</b>	<b>5.4500e-003</b>	<b>77.6837</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0629	0.5754	0.6498	1.0800e-003		0.0280	0.0280		0.0263	0.0263	0.0000	92.7219	92.7219	0.0221	0.0000	93.2733
<b>Total</b>	<b>0.0629</b>	<b>0.5754</b>	<b>0.6498</b>	<b>1.0800e-003</b>		<b>0.0280</b>	<b>0.0280</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>92.7219</b>	<b>92.7219</b>	<b>0.0221</b>	<b>0.0000</b>	<b>93.2733</b>

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-004	0.0215	7.9800e-003	1.0000e-004	3.5300e-003	1.1000e-004	3.6400e-003	1.0200e-003	1.1000e-004	1.1300e-003	0.0000	9.9937	9.9937	3.7000e-004	1.4500e-003	10.4352
Worker	5.9700e-003	4.6000e-003	0.0628	1.8000e-004	0.0211	1.2000e-004	0.0212	5.5900e-003	1.1000e-004	5.7100e-003	0.0000	16.6904	16.6904	4.2000e-004	4.2000e-004	16.8273
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0261</b>	<b>0.0707</b>	<b>2.8000e-004</b>	<b>0.0246</b>	<b>2.3000e-004</b>	<b>0.0248</b>	<b>6.6100e-003</b>	<b>2.2000e-004</b>	<b>6.8400e-003</b>	<b>0.0000</b>	<b>26.6841</b>	<b>26.6841</b>	<b>7.9000e-004</b>	<b>1.8700e-003</b>	<b>27.2626</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0629	0.5754	0.6498	1.0800e-003		0.0280	0.0280		0.0263	0.0263	0.0000	92.7218	92.7218	0.0221	0.0000	93.2732
<b>Total</b>	<b>0.0629</b>	<b>0.5754</b>	<b>0.6498</b>	<b>1.0800e-003</b>		<b>0.0280</b>	<b>0.0280</b>		<b>0.0263</b>	<b>0.0263</b>	<b>0.0000</b>	<b>92.7218</b>	<b>92.7218</b>	<b>0.0221</b>	<b>0.0000</b>	<b>93.2732</b>

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

**3.4 Building Construction - 2023**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9000e-004	0.0215	7.9800e-003	1.0000e-004	2.9100e-003	1.1000e-004	3.0200e-003	8.7000e-004	1.1000e-004	9.7000e-004	0.0000	9.9937	9.9937	3.7000e-004	1.4500e-003	10.4352
Worker	5.9700e-003	4.6000e-003	0.0628	1.8000e-004	0.0165	1.2000e-004	0.0166	4.4700e-003	1.1000e-004	4.5900e-003	0.0000	16.6904	16.6904	4.2000e-004	4.2000e-004	16.8273
<b>Total</b>	<b>6.5600e-003</b>	<b>0.0261</b>	<b>0.0707</b>	<b>2.8000e-004</b>	<b>0.0194</b>	<b>2.3000e-004</b>	<b>0.0196</b>	<b>5.3400e-003</b>	<b>2.2000e-004</b>	<b>5.5600e-003</b>	<b>0.0000</b>	<b>26.6841</b>	<b>26.6841</b>	<b>7.9000e-004</b>	<b>1.8700e-003</b>	<b>27.2626</b>

**3.5 Paving - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
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>0.0103</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0269</b>	<b>20.0269</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

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

**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
<b>Total</b>	<b>4.7000e-004</b>	<b>3.6000e-004</b>	<b>4.9000e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3039</b>	<b>1.3039</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3146</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
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>0.0103</b>	<b>0.1019</b>	<b>0.1458</b>	<b>2.3000e-004</b>		<b>5.1000e-003</b>	<b>5.1000e-003</b>		<b>4.6900e-003</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>20.0268</b>	<b>20.0268</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1888</b>

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
<b>Total</b>	<b>4.7000e-004</b>	<b>3.6000e-004</b>	<b>4.9000e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.3039</b>	<b>1.3039</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3146</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.7575</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
<b>Total</b>	<b>4.7000e-004</b>	<b>3.6000e-004</b>	<b>4.9000e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3039</b>	<b>1.3039</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3146</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.7575</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>



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**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
<b>Total</b>	<b>4.7000e-004</b>	<b>3.6000e-004</b>	<b>4.9000e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.3039</b>	<b>1.3039</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.3146</b>

Warmington Highland & Palm - South Coast Air Basin, Annual

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6612	0.8190	6.9724	0.0154	1.6076	0.0113	1.6188	0.4290	0.0105	0.4395	0.0000	1,441.9773	1,441.9773	0.0927	0.0633	1,463.1509
Unmitigated	0.6612	0.8190	6.9724	0.0154	1.6076	0.0113	1.6188	0.4290	0.0105	0.4395	0.0000	1,441.9773	1,441.9773	0.0927	0.0633	1,463.1509

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	1,264.96	1,278.36	1,145.70	4,270,883	4,270,883
Total	1,264.96	1,278.36	1,145.70	4,270,883	4,270,883

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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	189.2746	189.2746	0.0160	1.9400e-003	190.2510
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	189.2746	189.2746	0.0160	1.9400e-003	190.2510
NaturalGas Mitigated	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
NaturalGas Unmitigated	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.79045e+006	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
<b>Total</b>		<b>0.0204</b>	<b>0.1747</b>	<b>0.0743</b>	<b>1.1100e-003</b>		<b>0.0141</b>	<b>0.0141</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>202.2728</b>	<b>202.2728</b>	<b>3.8800e-003</b>	<b>3.7100e-003</b>	<b>203.4749</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	3.79045e+006	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
<b>Total</b>		<b>0.0204</b>	<b>0.1747</b>	<b>0.0743</b>	<b>1.1100e-003</b>		<b>0.0141</b>	<b>0.0141</b>		<b>0.0141</b>	<b>0.0141</b>	<b>0.0000</b>	<b>202.2728</b>	<b>202.2728</b>	<b>3.8800e-003</b>	<b>3.7100e-003</b>	<b>203.4749</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.06726e+006	189.2746	0.0160	1.9400e-003	190.2510
<b>Total</b>		<b>189.2746</b>	<b>0.0160</b>	<b>1.9400e-003</b>	<b>190.2510</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.06726e+006	189.2746	0.0160	1.9400e-003	190.2510
<b>Total</b>		<b>189.2746</b>	<b>0.0160</b>	<b>1.9400e-003</b>	<b>190.2510</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9914	0.0396	1.3923	2.2000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	29.6089	29.6089	2.6900e-003	5.0000e-004	29.8257
Unmitigated	0.9914	0.0396	1.3923	2.2000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003	0.0000	29.6089	29.6089	2.6900e-003	5.0000e-004	29.8257

**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	0.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.7600e-003	0.0236	0.0101	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.3516	27.3516	5.2000e-004	5.0000e-004	27.5142
Landscaping	0.0416	0.0159	1.3822	7.0000e-005		7.6500e-003	7.6500e-003		7.6500e-003	7.6500e-003	0.0000	2.2573	2.2573	2.1700e-003	0.0000	2.3116
<b>Total</b>	<b>0.9914</b>	<b>0.0396</b>	<b>1.3923</b>	<b>2.2000e-004</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>	<b>0.0000</b>	<b>29.6089</b>	<b>29.6089</b>	<b>2.6900e-003</b>	<b>5.0000e-004</b>	<b>29.8257</b>

Warmington Highland & Palm - South Coast Air Basin, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.7600e-003	0.0236	0.0101	1.5000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	27.3516	27.3516	5.2000e-004	5.0000e-004	27.5142
Landscaping	0.0416	0.0159	1.3822	7.0000e-005		7.6500e-003	7.6500e-003		7.6500e-003	7.6500e-003	0.0000	2.2573	2.2573	2.1700e-003	0.0000	2.3116
<b>Total</b>	<b>0.9914</b>	<b>0.0396</b>	<b>1.3923</b>	<b>2.2000e-004</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>		<b>9.5600e-003</b>	<b>9.5600e-003</b>	<b>0.0000</b>	<b>29.6089</b>	<b>29.6089</b>	<b>2.6900e-003</b>	<b>5.0000e-004</b>	<b>29.8257</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Warmington Highland & Palm - South Coast Air Basin, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	33.7755	0.2871	7.0300e-003	43.0495
Unmitigated	33.7755	0.2871	7.0300e-003	43.0495

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	8.73064 / 5.5041	33.7755	0.2871	7.0300e-003	43.0495
<b>Total</b>		<b>33.7755</b>	<b>0.2871</b>	<b>7.0300e-003</b>	<b>43.0495</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	8.73064 / 5.5041	33.7755	0.2871	7.0300e-003	43.0495
<b>Total</b>		<b>33.7755</b>	<b>0.2871</b>	<b>7.0300e-003</b>	<b>43.0495</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.8757	1.8838	0.0000	78.9706
Unmitigated	31.8757	1.8838	0.0000	78.9706

Warmington Highland & Palm - South Coast Air Basin, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	157.03	31.8757	1.8838	0.0000	78.9706
<b>Total</b>		<b>31.8757</b>	<b>1.8838</b>	<b>0.0000</b>	<b>78.9706</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	157.03	31.8757	1.8838	0.0000	78.9706
<b>Total</b>		<b>31.8757</b>	<b>1.8838</b>	<b>0.0000</b>	<b>78.9706</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Warmington Highland &amp; Palm - South Coast Air Basin, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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### Warmington Highland & Palm

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

#### South Coast Air Basin, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation

**Warmington Highland & Palm**

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	6	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

### Warmington Highland & Palm

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	3.83000E-003	2.60600E-002	3.62200E-002	6.00000E-005	1.42000E-003	1.42000E-003	0.00000E+000	5.10651E+000	5.10651E+000	3.10000E-004	0.00000E+000	5.11415E+000
Cranes	4.82000E-002	5.36280E-001	2.46340E-001	7.60000E-004	2.23000E-002	2.05100E-002	0.00000E+000	6.65385E+001	6.65385E+001	2.15200E-002	0.00000E+000	6.70765E+001
Excavators	6.07000E-003	5.33100E-002	9.76500E-002	1.50000E-004	2.58000E-003	2.37000E-003	0.00000E+000	1.36082E+001	1.36082E+001	4.40000E-003	0.00000E+000	1.37182E+001
Forklifts	4.97900E-002	4.63280E-001	5.18110E-001	6.90000E-004	3.01800E-002	2.77600E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	4.85300E-002	4.30730E-001	5.51130E-001	9.90000E-004	2.12900E-002	2.12900E-002	0.00000E+000	8.47811E+001	8.47811E+001	3.95000E-003	0.00000E+000	8.48798E+001
Graders	6.22000E-003	7.88600E-002	2.58300E-002	1.00000E-004	2.51000E-003	2.31000E-003	0.00000E+000	8.72638E+000	8.72638E+000	2.82000E-003	0.00000E+000	8.79693E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25932E+000	8.25932E+000	2.67000E-003	0.00000E+000	8.32611E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15709E+000	7.15709E+000	2.31000E-003	0.00000E+000	7.21496E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64773E+000
Rubber Tired Dozers	1.67400E-002	1.75870E-001	7.16400E-002	1.70000E-004	8.35000E-003	7.68000E-003	0.00000E+000	1.50055E+001	1.50055E+001	4.85000E-003	0.00000E+000	1.51268E+001
Scrapers	1.22900E-002	1.34150E-001	9.56400E-002	2.30000E-004	5.24000E-003	4.82000E-003	0.00000E+000	2.00074E+001	2.00074E+001	6.47000E-003	0.00000E+000	2.01692E+001
Tractors/Loaders/Backhoes	6.92200E-002	7.03730E-001	9.58820E-001	1.33000E-003	3.71400E-002	3.41700E-002	0.00000E+000	1.17201E+002	1.17201E+002	3.79100E-002	0.00000E+000	1.18148E+002
Welders	4.06200E-002	2.17740E-001	2.53660E-001	3.80000E-004	9.23000E-003	9.23000E-003	0.00000E+000	2.82331E+001	2.82331E+001	3.30000E-003	0.00000E+000	2.83156E+001

### Warmington Highland & Palm

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.83000E-003	2.60600E-002	3.62200E-002	6.00000E-005	1.42000E-003	1.42000E-003	0.00000E+000	5.10650E+000	5.10650E+000	3.10000E-004	0.00000E+000	5.11414E+000
Cranes	4.82000E-002	5.36280E-001	2.46340E-001	7.60000E-004	2.23000E-002	2.05100E-002	0.00000E+000	6.65384E+001	6.65384E+001	2.15200E-002	0.00000E+000	6.70764E+001
Excavators	6.07000E-003	5.33100E-002	9.76500E-002	1.50000E-004	2.58000E-003	2.37000E-003	0.00000E+000	1.36082E+001	1.36082E+001	4.40000E-003	0.00000E+000	1.37182E+001
Forklifts	4.97900E-002	4.63280E-001	5.18110E-001	6.90000E-004	3.01800E-002	2.77600E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	4.85300E-002	4.30730E-001	5.51130E-001	9.90000E-004	2.12900E-002	2.12900E-002	0.00000E+000	8.47810E+001	8.47810E+001	3.95000E-003	0.00000E+000	8.48797E+001
Graders	6.22000E-003	7.88600E-002	2.58300E-002	1.00000E-004	2.51000E-003	2.31000E-003	0.00000E+000	8.72637E+000	8.72637E+000	2.82000E-003	0.00000E+000	8.79692E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25931E+000	8.25931E+000	2.67000E-003	0.00000E+000	8.32610E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15708E+000	7.15708E+000	2.31000E-003	0.00000E+000	7.21495E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64772E+000
Rubber Tired Dozers	1.67400E-002	1.75870E-001	7.16400E-002	1.70000E-004	8.35000E-003	7.68000E-003	0.00000E+000	1.50055E+001	1.50055E+001	4.85000E-003	0.00000E+000	1.51268E+001
Scrapers	1.22900E-002	1.34150E-001	9.56400E-002	2.30000E-004	5.24000E-003	4.82000E-003	0.00000E+000	2.00074E+001	2.00074E+001	6.47000E-003	0.00000E+000	2.01692E+001
Tractors/Loaders/Balckhoes	6.92200E-002	7.03730E-001	9.58820E-001	1.33000E-003	3.71400E-002	3.41700E-002	0.00000E+000	1.17201E+002	1.17201E+002	3.79100E-002	0.00000E+000	1.18148E+002
Welders	4.06200E-002	2.17740E-001	2.53660E-001	3.80000E-004	9.23000E-003	9.23000E-003	0.00000E+000	2.82331E+001	2.82331E+001	3.30000E-003	0.00000E+000	2.83155E+001

**Warmington Highland & Palm**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.95828E-006	1.95828E-006	0.00000E+000	0.00000E+000	1.95536E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20231E-006	1.20231E-006	0.00000E+000	0.00000E+000	1.19267E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.46970E-006	1.46970E-006	0.00000E+000	0.00000E+000	1.45792E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17814E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14595E-006	1.14595E-006	0.00000E+000	0.00000E+000	1.13676E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15159E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33285E-006	1.33285E-006	0.00000E+000	0.00000E+000	6.61078E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.99629E-007	9.99629E-007	0.00000E+000	0.00000E+000	9.91611E-007
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19453E-006	1.19453E-006	0.00000E+000	0.00000E+000	1.18495E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.05949E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
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### Warmington Highland & Palm

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

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	25.00		
Yes	Clean Paved Road	% PM Reduction	25.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.21	0.19
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.09	0.03	0.07	0.02	0.21	0.19
Grading	Fugitive Dust	0.10	0.05	0.04	0.02	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.22	0.20
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.22	0.20
Site Preparation	Fugitive Dust	0.03	0.02	0.01	0.01	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.22	0.14

#### Operational Percent Reduction Summary

### Warmington Highland & Palm

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

**Warmington Highland & Palm**

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

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

**Warmington Highland & Palm**

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

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

**Warmington Highland & Palm**

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

### Warmington Highland & Palm

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	