



**APPENDIX B**

**Air Quality Model Data Output**

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Signal Hill - Heritage Square  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	72.00	Dwelling Unit	5.00	72,000.00	206
Regional Shopping Center	44.95	1000sqft	3.80	44,950.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<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 - Heritage Square site is 8.8 acres.

Construction Phase - Estimated construction schedule - 18 months.

Grading -

Demolition -

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Daily trips from traffic report.

Woodstoves - No woodstoves.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Area Mitigation - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	352.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	3/24/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	1/28/2022	1/14/2022
tblConstructionPhase	PhaseEndDate	3/11/2022	3/1/2022
tblConstructionPhase	PhaseEndDate	2/24/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	2/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	2/25/2023	5/8/2023
tblConstructionPhase	PhaseStartDate	3/12/2022	3/2/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/29/2022
tblConstructionPhase	PhaseStartDate	1/28/2023	6/7/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	1/15/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	3.60	0.00
tblLandUse	LotAcreage	1.89	5.00

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

tblLandUse	LotAcreage	1.03	3.80
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	37.75	0.00
tblWoodstoves	NumberCatalytic	3.60	0.00
tblWoodstoves	NumberNoncatalytic	3.60	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	21.4320	0.0443	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,331.6889	4,331.6889	1.1972	0.0718	4,380.0718
2023	18.0897	26.6651	36.2687	0.0648	1.1468	1.2900	2.4368	0.3063	1.2072	1.5135	0.0000	6,296.5218	6,296.5218	1.3724	0.0649	6,350.1689
<b>Maximum</b>	<b>18.0897</b>	<b>33.1290</b>	<b>36.2687</b>	<b>0.0648</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>6,296.5218</b>	<b>6,296.5218</b>	<b>1.3724</b>	<b>0.0718</b>	<b>6,350.1689</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**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	1.0058	19.4089	25.5118	0.0443	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	4,331.6889	4,331.6889	1.1972	0.0718	4,380.0718
2023	16.5868	27.6639	40.6312	0.0648	1.1468	1.6172	2.7640	0.3063	1.6166	1.9229	0.0000	6,296.5218	6,296.5218	1.3724	0.0649	6,350.1689
Maximum	16.5868	27.6639	40.6312	0.0648	6.7175	1.6172	7.6650	3.4023	1.6166	4.3497	0.0000	6,296.5218	6,296.5218	1.3724	0.0718	6,350.1689

	ROG	NOx	CO	SO2	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	17.49	21.28	-14.63	0.00	62.56	11.68	56.38	64.55	4.76	52.31	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Energy	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
Mobile	1.5908	1.6156	16.2931	0.0363	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,761.4026	3,761.4026	0.2399	0.1477	3,811.4225

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Total	4.4146	2.9565	22.7849	0.0447	3.7912	0.1615	3.9527	1.0099	0.1597	1.1695	0.0000	5,394.9617	5,394.9617	0.2813	0.1775	5,454.8826
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**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	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Energy	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
Mobile	1.5908	1.6156	16.2931	0.0363	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,761.4026	3,761.4026	0.2399	0.1477	3,811.4225
<b>Total</b>	<b>4.4146</b>	<b>2.9565</b>	<b>22.7849</b>	<b>0.0447</b>	<b>3.7912</b>	<b>0.1615</b>	<b>3.9527</b>	<b>1.0099</b>	<b>0.1597</b>	<b>1.1695</b>	<b>0.0000</b>	<b>5,394.9617</b>	<b>5,394.9617</b>	<b>0.2813</b>	<b>0.1775</b>	<b>5,454.8826</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/14/2022	5	10	1
2	Site Preparation	Site Preparation	1/15/2022	1/28/2022	5	10	2

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

3	Grading	Grading	1/29/2022	3/1/2022	5	22
4	Building Construction	Building Construction	3/2/2022	7/6/2023	5	352
5	Paving	Paving	6/7/2023	7/6/2023	5	22
6	Architectural Coating	Architectural Coating	5/8/2023	7/6/2023	5	44

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 145,800; Residential Outdoor: 48,600; Non-Residential Indoor: 67,425; Non-Residential Outdoor: 22,475; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37



Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	63.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	15.00	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	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					1.3730	0.0000	1.3730	0.2079	0.0000	0.2079			0.0000		0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524	3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.3730</b>	<b>1.2427</b>	<b>2.6156</b>	<b>0.2079</b>	<b>1.1553</b>	<b>1.3631</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>	<b>3,773.0920</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	0.0294	1.0581	0.2467	3.9200e-003	0.1103	7.8600e-003	0.1181	0.0302	7.5200e-003	0.0378		428.8886	428.8886	0.0228	0.0681	449.7366
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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0813</b>	<b>1.0960</b>	<b>0.8379</b>	<b>5.4500e-003</b>	<b>0.2779</b>	<b>8.9300e-003</b>	<b>0.2869</b>	<b>0.0747</b>	<b>8.5100e-003</b>	<b>0.0832</b>		<b>584.9077</b>	<b>584.9077</b>	<b>0.0270</b>	<b>0.0718</b>	<b>606.9798</b>

**Mitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					0.4551	0.0000	0.4551	0.0689	0.0000	0.0689			0.0000		0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524	3,773.0920
<b>Total</b>	<b>0.9246</b>	<b>18.3130</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.4551</b>	<b>0.8627</b>	<b>1.3179</b>	<b>0.0689</b>	<b>0.8627</b>	<b>0.9316</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>	<b>3,773.0920</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	0.0294	1.0581	0.2467	3.9200e-003	0.1103	7.8600e-003	0.1181	0.0302	7.5200e-003	0.0378		428.8886	428.8886	0.0228	0.0681	449.7366
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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0813</b>	<b>1.0960</b>	<b>0.8379</b>	<b>5.4500e-003</b>	<b>0.2779</b>	<b>8.9300e-003</b>	<b>0.2869</b>	<b>0.0747</b>	<b>8.5100e-003</b>	<b>0.0832</b>		<b>584.9077</b>	<b>584.9077</b>	<b>0.0270</b>	<b>0.0718</b>	<b>606.9798</b>

**3.3 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000		0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**Mitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000		0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**3.4 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000		0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289	2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>	<b>2,895.2684</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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

**Mitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

**3.5 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

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	0.0295	0.7348	0.2519	2.9400e-003	0.0961	7.0000e-003	0.1031	0.0277	6.7000e-003	0.0344		315.6924	315.6924	0.0106	0.0455	329.5127
Worker	0.2284	0.1668	2.6013	6.7500e-003	0.7377	4.7300e-003	0.7425	0.1957	4.3500e-003	0.2000		686.4839	686.4839	0.0186	0.0165	691.8700
<b>Total</b>	<b>0.2579</b>	<b>0.9015</b>	<b>2.8532</b>	<b>9.6900e-003</b>	<b>0.8338</b>	<b>0.0117</b>	<b>0.8455</b>	<b>0.2233</b>	<b>0.0111</b>	<b>0.2344</b>		<b>1,002.1763</b>	<b>1,002.1763</b>	<b>0.0291</b>	<b>0.0620</b>	<b>1,021.3827</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322



Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

<b>Total</b>	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
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**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
<b>Category</b>	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	0.0295	0.7348	0.2519	2.9400e-003	0.0961	7.0000e-003	0.1031	0.0277	6.7000e-003	0.0344		315.6924	315.6924	0.0106	0.0455	329.5127
Worker	0.2284	0.1668	2.6013	6.7500e-003	0.7377	4.7300e-003	0.7425	0.1957	4.3500e-003	0.2000		686.4839	686.4839	0.0186	0.0165	691.8700
<b>Total</b>	<b>0.2579</b>	<b>0.9015</b>	<b>2.8532</b>	<b>9.6900e-003</b>	<b>0.8338</b>	<b>0.0117</b>	<b>0.8455</b>	<b>0.2233</b>	<b>0.0111</b>	<b>0.2344</b>		<b>1,002.1763</b>	<b>1,002.1763</b>	<b>0.0291</b>	<b>0.0620</b>	<b>1,021.3827</b>

**3.5 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
<b>Category</b>	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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0173	0.5758	0.2231	2.7900e-003	0.0961	2.8900e-003	0.0990	0.0277	2.7700e-003	0.0304		300.4237	300.4237	0.0101	0.0432	313.5467
Worker	0.2114	0.1474	2.3917	6.5300e-003	0.7377	4.4500e-003	0.7422	0.1957	4.1000e-003	0.1998		668.3244	668.3244	0.0166	0.0152	673.2798
<b>Total</b>	<b>0.2286</b>	<b>0.7231</b>	<b>2.6147</b>	<b>9.3200e-003</b>	<b>0.8338</b>	<b>7.3400e-003</b>	<b>0.8412</b>	<b>0.2233</b>	<b>6.8700e-003</b>	<b>0.2302</b>		<b>968.7481</b>	<b>968.7481</b>	<b>0.0267</b>	<b>0.0584</b>	<b>986.8264</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0173	0.5758	0.2231	2.7900e-003	0.0961	2.8900e-003	0.0990	0.0277	2.7700e-003	0.0304		300.4237	300.4237	0.0101	0.0432	313.5467
Worker	0.2114	0.1474	2.3917	6.5300e-003	0.7377	4.4500e-003	0.7422	0.1957	4.1000e-003	0.1998		668.3244	668.3244	0.0166	0.0152	673.2798
<b>Total</b>	<b>0.2286</b>	<b>0.7231</b>	<b>2.6147</b>	<b>9.3200e-003</b>	<b>0.8338</b>	<b>7.3400e-003</b>	<b>0.8412</b>	<b>0.2233</b>	<b>6.8700e-003</b>	<b>0.2302</b>		<b>968.7481</b>	<b>968.7481</b>	<b>0.0267</b>	<b>0.0584</b>	<b>986.8264</b>

**3.6 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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

**3.7 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	14.9742					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>15.1659</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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
<b>Total</b>	<b>0.0416</b>	<b>0.0290</b>	<b>0.4711</b>	<b>1.2900e-003</b>	<b>0.1453</b>	<b>8.8000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.1000e-004</b>	<b>0.0393</b>		<b>131.6397</b>	<b>131.6397</b>	<b>3.2800e-003</b>	<b>3.0000e-003</b>	<b>132.6157</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.9742					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>15.0336</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
<b>Total</b>	<b>0.0416</b>	<b>0.0290</b>	<b>0.4711</b>	<b>1.2900e-003</b>	<b>0.1453</b>	<b>8.8000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.1000e-004</b>	<b>0.0393</b>		<b>131.6397</b>	<b>131.6397</b>	<b>3.2800e-003</b>	<b>3.0000e-003</b>	<b>132.6157</b>

**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	1.5908	1.6156	16.2931	0.0363	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,761.4026	3,761.4026	0.2399	0.1477	3,811.4225
Unmitigated	1.5908	1.6156	16.2931	0.0363	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,761.4026	3,761.4026	0.2399	0.1477	3,811.4225

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	526.97	475.92	396.00	1,711,876	1,711,876
Regional Shopping Center	0.00	0.00	0.00		
<b>Total</b>	<b>526.97</b>	<b>475.92</b>	<b>396.00</b>	<b>1,711,876</b>	<b>1,711,876</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances



Signal Hill - Heritage Square - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
NaturalGas Unmitigated	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958

**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					
Apartments Mid Rise	2577.52	0.0278	0.2375	0.1011	1.5200e-003		0.0192	0.0192		0.0192	0.0192		303.2375	303.2375	5.8100e-003	5.5600e-003	305.0395
Regional Shopping Center	200.736	2.1600e-003	0.0197	0.0165	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6160	23.6160	4.5000e-004	4.3000e-004	23.7563
<b>Total</b>		<b>0.0300</b>	<b>0.2572</b>	<b>0.1176</b>	<b>1.6400e-003</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0207</b>	<b>0.0207</b>		<b>326.8535</b>	<b>326.8535</b>	<b>6.2600e-003</b>	<b>5.9900e-003</b>	<b>328.7958</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
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Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Land Use	kBTU/yr	lb/day									lb/day						
Apartments Mid Rise	2.57752	0.0278	0.2375	0.1011	1.5200e-003		0.0192	0.0192		0.0192	0.0192		303.2375	303.2375	5.8100e-003	5.5600e-003	305.0395
Regional Shopping Center	0.200736	2.1600e-003	0.0197	0.0165	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6160	23.6160	4.5000e-004	4.3000e-004	23.7563
<b>Total</b>		<b>0.0300</b>	<b>0.2572</b>	<b>0.1176</b>	<b>1.6400e-003</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0207</b>	<b>0.0207</b>		<b>326.8535</b>	<b>326.8535</b>	<b>6.2600e-003</b>	<b>5.9900e-003</b>	<b>328.7958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Unmitigated	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643

Signal Hill - Heritage Square - Los Angeles-South Coast County, 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	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1188	1.0152	0.4320	6.4800e-003		0.0821	0.0821		0.0821	0.0821	0.0000	1,296.0000	1,296.0000	0.0248	0.0238	1,303.7015
Landscaping	0.1790	0.0685	5.9422	3.1000e-004		0.0329	0.0329		0.0329	0.0329		10.7056	10.7056	0.0103		10.9628
<b>Total</b>	<b>2.7939</b>	<b>1.0837</b>	<b>6.3742</b>	<b>6.7900e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>1,306.7056</b>	<b>1,306.7056</b>	<b>0.0351</b>	<b>0.0238</b>	<b>1,314.6643</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1188	1.0152	0.4320	6.4800e-003		0.0821	0.0821		0.0821	0.0821	0.0000	1,296.0000	1,296.0000	0.0248	0.0238	1,303.7015

Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

Landscaping	0.1790	0.0685	5.9422	3.1000e-004		0.0329	0.0329		0.0329	0.0329		10.7056	10.7056	0.0103		10.9628
<b>Total</b>	<b>2.7939</b>	<b>1.0837</b>	<b>6.3742</b>	<b>6.7900e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>1,306.7056</b>	<b>1,306.7056</b>	<b>0.0351</b>	<b>0.0238</b>	<b>1,314.6643</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Signal Hill - Heritage Square - Los Angeles-South Coast County, Summer

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Signal Hill - Heritage Square  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	72.00	Dwelling Unit	5.00	72,000.00	206
Regional Shopping Center	44.95	1000sqft	3.80	44,950.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<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 - Heritage Square site is 8.8 acres.

Construction Phase - Estimated construction schedule - 18 months.

Grading -

Demolition -

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Daily trips from traffic report.

Woodstoves - No woodstoves.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Area Mitigation - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

## Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	352.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	3/24/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	1/28/2022	1/14/2022
tblConstructionPhase	PhaseEndDate	3/11/2022	3/1/2022
tblConstructionPhase	PhaseEndDate	2/24/2023	7/6/2023
tblConstructionPhase	PhaseEndDate	2/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	2/25/2023	5/8/2023
tblConstructionPhase	PhaseStartDate	3/12/2022	3/2/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/29/2022
tblConstructionPhase	PhaseStartDate	1/28/2023	6/7/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	1/15/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	3.60	0.00
tblLandUse	LotAcreage	1.89	5.00



Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

tblLandUse	LotAcreage	1.03	3.80
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	37.75	0.00
tblWoodstoves	NumberCatalytic	3.60	0.00
tblWoodstoves	NumberNoncatalytic	3.60	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.1338	21.3879	0.0442	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	4,323.5655	4,323.5655	1.1973	0.0721	4,372.0321
2023	18.1115	26.7141	36.0003	0.0643	1.1468	1.2900	2.4368	0.3063	1.2073	1.5136	0.0000	6,246.8457	6,246.8457	1.3727	0.0665	6,300.9747
<b>Maximum</b>	<b>18.1115</b>	<b>33.1338</b>	<b>36.0003</b>	<b>0.0643</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>6,246.8457</b>	<b>6,246.8457</b>	<b>1.3727</b>	<b>0.0721</b>	<b>6,300.9747</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	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	1.0088	19.4559	25.4677	0.0442	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	4,323.5655	4,323.5655	1.1973	0.0721	4,372.0321
2023	16.6086	27.7129	40.3629	0.0643	1.1468	1.6172	2.7640	0.3063	1.6166	1.9229	0.0000	6,246.8457	6,246.8457	1.3727	0.0665	6,300.9747
Maximum	16.6086	27.7129	40.3629	0.0643	6.7175	1.6172	7.6650	3.4023	1.6166	4.3497	0.0000	6,246.8457	6,246.8457	1.3727	0.0721	6,300.9747

	ROG	NOx	CO	SO2	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	17.48	21.19	-14.71	0.00	62.56	11.68	56.38	64.55	4.76	52.31	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Energy	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
Mobile	1.5631	1.7446	15.9262	0.0347	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,601.4923	3,601.4923	0.2465	0.1542	3,653.6131

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Total	4.3870	3.0855	22.4180	0.0431	3.7912	0.1615	3.9527	1.0099	0.1597	1.1695	0.0000	5,235.0514	5,235.0514	0.2879	0.1840	5,297.0732
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**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	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Energy	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
Mobile	1.5631	1.7446	15.9262	0.0347	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,601.4923	3,601.4923	0.2465	0.1542	3,653.6131
<b>Total</b>	<b>4.3870</b>	<b>3.0855</b>	<b>22.4180</b>	<b>0.0431</b>	<b>3.7912</b>	<b>0.1615</b>	<b>3.9527</b>	<b>1.0099</b>	<b>0.1597</b>	<b>1.1695</b>	<b>0.0000</b>	<b>5,235.0514</b>	<b>5,235.0514</b>	<b>0.2879</b>	<b>0.1840</b>	<b>5,297.0732</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/14/2022	5	10	1
2	Site Preparation	Site Preparation	1/15/2022	1/28/2022	5	10	2

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

3	Grading	Grading	1/29/2022	3/1/2022	5	22
4	Building Construction	Building Construction	3/2/2022	7/6/2023	5	352
5	Paving	Paving	6/7/2023	7/6/2023	5	22
6	Architectural Coating	Architectural Coating	5/8/2023	7/6/2023	5	44

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 145,800; Residential Outdoor: 48,600; Non-Residential Indoor: 67,425; Non-Residential Outdoor: 22,475; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	63.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	15.00	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	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					1.3730	0.0000	1.3730	0.2079	0.0000	0.2079			0.0000		0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524	3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>1.3730</b>	<b>1.2427</b>	<b>2.6156</b>	<b>0.2079</b>	<b>1.1553</b>	<b>1.3631</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>	<b>3,773.0920</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	0.0287	1.1010	0.2511	3.9200e-003	0.1103	7.8800e-003	0.1182	0.0302	7.5400e-003	0.0378		429.0144	429.0144	0.0227	0.0681	449.8680
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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0842</b>	<b>1.1429</b>	<b>0.7939</b>	<b>5.3700e-003</b>	<b>0.2779</b>	<b>8.9500e-003</b>	<b>0.2869</b>	<b>0.0747</b>	<b>8.5300e-003</b>	<b>0.0832</b>		<b>576.7843</b>	<b>576.7843</b>	<b>0.0270</b>	<b>0.0721</b>	<b>598.9401</b>

**Mitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					0.4551	0.0000	0.4551	0.0689	0.0000	0.0689			0.0000		0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524	3,773.0920
<b>Total</b>	<b>0.9246</b>	<b>18.3130</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.4551</b>	<b>0.8627</b>	<b>1.3179</b>	<b>0.0689</b>	<b>0.8627</b>	<b>0.9316</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>	<b>3,773.0920</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	0.0287	1.1010	0.2511	3.9200e-003	0.1103	7.8800e-003	0.1182	0.0302	7.5400e-003	0.0378		429.0144	429.0144	0.0227	0.0681	449.8680
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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0842</b>	<b>1.1429</b>	<b>0.7939</b>	<b>5.3700e-003</b>	<b>0.2779</b>	<b>8.9500e-003</b>	<b>0.2869</b>	<b>0.0747</b>	<b>8.5300e-003</b>	<b>0.0832</b>		<b>576.7843</b>	<b>576.7843</b>	<b>0.0270</b>	<b>0.0721</b>	<b>598.9401</b>

**3.3 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000		0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**Mitigated Construction On-Site**

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



Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000		0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**3.4 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000		0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289	2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>	<b>2,895.2684</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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

**Mitigated Construction On-Site**

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

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000		0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289	2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>	<b>2,895.2684</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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

**3.5 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					

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Off-Road	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	0.0292	0.7651	0.2606	2.9400e-003	0.0961	7.0200e-003	0.1031	0.0277	6.7200e-003	0.0344		315.8110	315.8110	0.0105	0.0456	329.6480
Worker	0.2445	0.1843	2.3884	6.3900e-003	0.7377	4.7300e-003	0.7425	0.1957	4.3500e-003	0.2000		650.1879	650.1879	0.0188	0.0177	655.9169
<b>Total</b>	<b>0.2737</b>	<b>0.9493</b>	<b>2.6490</b>	<b>9.3300e-003</b>	<b>0.8338</b>	<b>0.0118</b>	<b>0.8456</b>	<b>0.2233</b>	<b>0.0111</b>	<b>0.2344</b>		<b>965.9989</b>	<b>965.9989</b>	<b>0.0293</b>	<b>0.0632</b>	<b>985.5648</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>
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**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.0292	0.7651	0.2606	2.9400e-003	0.0961	7.0200e-003	0.1031	0.0277	6.7200e-003	0.0344		315.8110	315.8110	0.0105	0.0456	329.6480
Worker	0.2445	0.1843	2.3884	6.3900e-003	0.7377	4.7300e-003	0.7425	0.1957	4.3500e-003	0.2000		650.1879	650.1879	0.0188	0.0177	655.9169
<b>Total</b>	<b>0.2737</b>	<b>0.9493</b>	<b>2.6490</b>	<b>9.3300e-003</b>	<b>0.8338</b>	<b>0.0118</b>	<b>0.8456</b>	<b>0.2233</b>	<b>0.0111</b>	<b>0.2344</b>		<b>965.9989</b>	<b>965.9989</b>	<b>0.0293</b>	<b>0.0632</b>	<b>985.5648</b>

**3.5 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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0167	0.6028	0.2301	2.8000e-003	0.0961	2.9100e-003	0.0990	0.0277	2.7900e-003	0.0305		300.9305	300.9305	0.0100	0.0433	314.0867
Worker	0.2271	0.1628	2.1983	6.1900e-003	0.7377	4.4500e-003	0.7422	0.1957	4.1000e-003	0.1998		633.0896	633.0896	0.0169	0.0163	638.3600
<b>Total</b>	<b>0.2438</b>	<b>0.7656</b>	<b>2.4284</b>	<b>8.9900e-003</b>	<b>0.8338</b>	<b>7.3600e-003</b>	<b>0.8412</b>	<b>0.2233</b>	<b>6.8900e-003</b>	<b>0.2302</b>		<b>934.0201</b>	<b>934.0201</b>	<b>0.0269</b>	<b>0.0596</b>	<b>952.4467</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0167	0.6028	0.2301	2.8000e-003	0.0961	2.9100e-003	0.0990	0.0277	2.7900e-003	0.0305		300.9305	300.9305	0.0100	0.0433	314.0867
Worker	0.2271	0.1628	2.1983	6.1900e-003	0.7377	4.4500e-003	0.7422	0.1957	4.1000e-003	0.1998		633.0896	633.0896	0.0169	0.0163	638.3600
<b>Total</b>	<b>0.2438</b>	<b>0.7656</b>	<b>2.4284</b>	<b>8.9900e-003</b>	<b>0.8338</b>	<b>7.3600e-003</b>	<b>0.8412</b>	<b>0.2233</b>	<b>6.8900e-003</b>	<b>0.2302</b>		<b>934.0201</b>	<b>934.0201</b>	<b>0.0269</b>	<b>0.0596</b>	<b>952.4467</b>

**3.6 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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>



Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</b>

**3.7 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	14.9742					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>15.1659</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>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
<b>Total</b>	<b>0.0447</b>	<b>0.0321</b>	<b>0.4330</b>	<b>1.2200e-003</b>	<b>0.1453</b>	<b>8.8000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.1000e-004</b>	<b>0.0393</b>		<b>124.6995</b>	<b>124.6995</b>	<b>3.3200e-003</b>	<b>3.2000e-003</b>	<b>125.7376</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.9742					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>15.0336</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
<b>Total</b>	<b>0.0447</b>	<b>0.0321</b>	<b>0.4330</b>	<b>1.2200e-003</b>	<b>0.1453</b>	<b>8.8000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.1000e-004</b>	<b>0.0393</b>		<b>124.6995</b>	<b>124.6995</b>	<b>3.3200e-003</b>	<b>3.2000e-003</b>	<b>125.7376</b>

**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	1.5631	1.7446	15.9262	0.0347	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,601.4923	3,601.4923	0.2465	0.1542	3,653.6131
Unmitigated	1.5631	1.7446	15.9262	0.0347	3.7912	0.0258	3.8170	1.0099	0.0240	1.0338		3,601.4923	3,601.4923	0.2465	0.1542	3,653.6131

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	526.97	475.92	396.00	1,711,876	1,711,876
Regional Shopping Center	0.00	0.00	0.00		
<b>Total</b>	<b>526.97</b>	<b>475.92</b>	<b>396.00</b>	<b>1,711,876</b>	<b>1,711,876</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958
NaturalGas Unmitigated	0.0300	0.2572	0.1176	1.6300e-003		0.0207	0.0207		0.0207	0.0207		326.8535	326.8535	6.2600e-003	5.9900e-003	328.7958

**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					
Apartments Mid Rise	2577.52	0.0278	0.2375	0.1011	1.5200e-003		0.0192	0.0192		0.0192	0.0192		303.2375	303.2375	5.8100e-003	5.5600e-003	305.0395
Regional Shopping Center	200.736	2.1600e-003	0.0197	0.0165	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6160	23.6160	4.5000e-004	4.3000e-004	23.7563
<b>Total</b>		<b>0.0300</b>	<b>0.2572</b>	<b>0.1176</b>	<b>1.6400e-003</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0207</b>	<b>0.0207</b>		<b>326.8535</b>	<b>326.8535</b>	<b>6.2600e-003</b>	<b>5.9900e-003</b>	<b>328.7958</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
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Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.57752	0.0278	0.2375	0.1011	1.5200e-003		0.0192	0.0192		0.0192	0.0192		303.2375	303.2375	5.8100e-003	5.5600e-003	305.0395
Regional Shopping Center	0.200736	2.1600e-003	0.0197	0.0165	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003		23.6160	23.6160	4.5000e-004	4.3000e-004	23.7563
<b>Total</b>		<b>0.0300</b>	<b>0.2572</b>	<b>0.1176</b>	<b>1.6400e-003</b>		<b>0.0207</b>	<b>0.0207</b>		<b>0.0207</b>	<b>0.0207</b>		<b>326.8535</b>	<b>326.8535</b>	<b>6.2600e-003</b>	<b>5.9900e-003</b>	<b>328.7958</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643
Unmitigated	2.7939	1.0837	6.3742	6.7900e-003		0.1150	0.1150		0.1150	0.1150	0.0000	1,306.7056	1,306.7056	0.0351	0.0238	1,314.6643

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1188	1.0152	0.4320	6.4800e-003		0.0821	0.0821		0.0821	0.0821	0.0000	1,296.0000	1,296.0000	0.0248	0.0238	1,303.7015
Landscaping	0.1790	0.0685	5.9422	3.1000e-004		0.0329	0.0329		0.0329	0.0329		10.7056	10.7056	0.0103		10.9628
<b>Total</b>	<b>2.7939</b>	<b>1.0837</b>	<b>6.3742</b>	<b>6.7900e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>1,306.7056</b>	<b>1,306.7056</b>	<b>0.0351</b>	<b>0.0238</b>	<b>1,314.6643</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1188	1.0152	0.4320	6.4800e-003		0.0821	0.0821		0.0821	0.0821	0.0000	1,296.0000	1,296.0000	0.0248	0.0238	1,303.7015

Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

Landscaping	0.1790	0.0685	5.9422	3.1000e-004		0.0329	0.0329		0.0329	0.0329		10.7056	10.7056	0.0103		10.9628
<b>Total</b>	<b>2.7939</b>	<b>1.0837</b>	<b>6.3742</b>	<b>6.7900e-003</b>		<b>0.1150</b>	<b>0.1150</b>		<b>0.1150</b>	<b>0.1150</b>	<b>0.0000</b>	<b>1,306.7056</b>	<b>1,306.7056</b>	<b>0.0351</b>	<b>0.0238</b>	<b>1,314.6643</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Signal Hill - Heritage Square - Los Angeles-South Coast County, Winter

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Signal Hill - Orange Bluff**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	295.00	Dwelling Unit	9.20	295,000.00	844

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics -
- Land Use - Orange Bluff site is 9.2 acres.
- Construction Phase - Estimated construction schedule - 18 months.
- Grading -
- Vehicle Trips - Daily trips from traffic report.
- Woodstoves - No woodstoves.
- Energy Use -
- Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	364.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	14.75	0.00
tblLandUse	LotAcreage	7.76	9.20
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	WD_TR	5.44	7.32
tblWoodstoves	NumberCatalytic	14.75	0.00
tblWoodstoves	NumberNoncatalytic	14.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	25.2564	0.0549	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,432.8801	5,432.8801	1.1972	0.1501	5,494.9628
2023	45.6474	27.7084	42.8630	0.0853	3.2118	1.3051	4.5168	0.8564	1.2212	2.0777	0.0000	8,409.0744	8,409.0744	1.4280	0.1542	8,490.7333
<b>Maximum</b>	<b>45.6474</b>	<b>33.1290</b>	<b>42.8630</b>	<b>0.0853</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>8,409.0744</b>	<b>8,409.0744</b>	<b>1.4280</b>	<b>0.1542</b>	<b>8,490.7333</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**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	1.4706	19.1111	26.7668	0.0549	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	5,432.8801	5,432.8801	1.1972	0.1501	5,494.9628
2023	44.1445	28.7071	47.2255	0.0853	3.2118	1.6323	4.8441	0.8564	1.6306	2.4870	0.0000	8,409.0744	8,409.0744	1.4280	0.1542	8,490.7333
<b>Maximum</b>	<b>44.1445</b>	<b>28.7071</b>	<b>47.2255</b>	<b>0.0853</b>	<b>6.7175</b>	<b>1.6323</b>	<b>7.6650</b>	<b>3.4023</b>	<b>1.6306</b>	<b>4.3497</b>	<b>0.0000</b>	<b>8,409.0744</b>	<b>8,409.0744</b>	<b>1.4280</b>	<b>0.1542</b>	<b>8,490.7333</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>6.68</b>	<b>21.40</b>	<b>-8.62</b>	<b>0.00</b>	<b>56.96</b>	<b>11.62</b>	<b>51.87</b>	<b>61.33</b>	<b>4.73</b>	<b>50.16</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>

**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	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Energy	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
Mobile	6.5187	6.6203	66.7654	0.1486	15.5354	0.1057	15.6411	4.1382	0.0981	4.2363		15,413.4078	15,413.4078	0.9830	0.6054	15,618.3785
<b>Total</b>	<b>14.1975</b>	<b>12.0334</b>	<b>93.2772</b>	<b>0.1827</b>	<b>15.5354</b>	<b>0.6556</b>	<b>16.1910</b>	<b>4.1382</b>	<b>0.6480</b>	<b>4.7861</b>	<b>0.0000</b>	<b>22,009.6623</b>	<b>22,009.6623</b>	<b>1.1507</b>	<b>0.7255</b>	<b>22,254.6221</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	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288
Energy	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
Mobile	6.5187	6.6203	66.7654	0.1486	15.5354	0.1057	15.6411	4.1382	0.0981	4.2363		15,413.4078	15,413.4078	0.9830	0.6054	15,618.3785
<b>Total</b>	<b>14.1975</b>	<b>12.0334</b>	<b>93.2772</b>	<b>0.1827</b>	<b>15.5354</b>	<b>0.6556</b>	<b>16.1910</b>	<b>4.1382</b>	<b>0.6480</b>	<b>4.7861</b>	<b>0.0000</b>	<b>22,009.6623</b>	<b>22,009.6623</b>	<b>1.1507</b>	<b>0.7255</b>	<b>22,254.6221</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
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**

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/14/2022	5	10	1
2	Grading	Grading	1/15/2022	2/15/2022	5	22	2
3	Building Construction	Building Construction	2/16/2022	7/10/2023	5	364	3
4	Architectural Coating	Architectural Coating	5/10/2023	7/10/2023	5	44	5
5	Paving	Paving	6/9/2023	7/10/2023	5	22	4

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 597,375; Residential Outdoor: 199,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	Tractors/Loaders/Backhoes	3	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	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	212.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	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

**3.1 Mitigation Measures Construction**

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

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



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000		0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**Mitigated Construction On-Site**

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

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000		0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</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	lb/day										lb/day					

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

**Mitigated Construction On-Site**

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

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</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	lb/day										lb/day					

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

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	0.0630	1.5675	0.5374	6.2700e-003	0.2050	0.0149	0.2199	0.0590	0.0143	0.0733		673.4771	673.4771	0.0225	0.0971	702.9604
Worker	0.7337	0.5357	8.3556	0.0217	2.3697	0.0152	2.3849	0.6285	0.0140	0.6424		2,205.0694	2,205.0694	0.0597	0.0531	2,222.3701
<b>Total</b>	<b>0.7967</b>	<b>2.1032</b>	<b>8.8930</b>	<b>0.0280</b>	<b>2.5746</b>	<b>0.0301</b>	<b>2.6048</b>	<b>0.6875</b>	<b>0.0283</b>	<b>0.7157</b>		<b>2,878.5465</b>	<b>2,878.5465</b>	<b>0.0822</b>	<b>0.1501</b>	<b>2,925.3306</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

<b>Total</b>	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
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**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
<b>Category</b>	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	0.0630	1.5675	0.5374	6.2700e-003	0.2050	0.0149	0.2199	0.0590	0.0143	0.0733		673.4771	673.4771	0.0225	0.0971	702.9604
Worker	0.7337	0.5357	8.3556	0.0217	2.3697	0.0152	2.3849	0.6285	0.0140	0.6424		2,205.0694	2,205.0694	0.0597	0.0531	2,222.3701
<b>Total</b>	<b>0.7967</b>	<b>2.1032</b>	<b>8.8930</b>	<b>0.0280</b>	<b>2.5746</b>	<b>0.0301</b>	<b>2.6048</b>	<b>0.6875</b>	<b>0.0283</b>	<b>0.7157</b>		<b>2,878.5465</b>	<b>2,878.5465</b>	<b>0.0822</b>	<b>0.1501</b>	<b>2,925.3306</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
<b>Category</b>	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>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0368	1.2283	0.4758	5.9600e-003	0.2050	6.1700e-003	0.2112	0.0590	5.9100e-003	0.0649		640.9039	640.9039	0.0215	0.0921	668.8996
Worker	0.6789	0.4733	7.6823	0.0210	2.3697	0.0143	2.3840	0.6285	0.0132	0.6416		2,146.7391	2,146.7391	0.0535	0.0489	2,162.6562
<b>Total</b>	<b>0.7157</b>	<b>1.7016</b>	<b>8.1582</b>	<b>0.0269</b>	<b>2.5746</b>	<b>0.0205</b>	<b>2.5951</b>	<b>0.6875</b>	<b>0.0191</b>	<b>0.7065</b>		<b>2,787.6430</b>	<b>2,787.6430</b>	<b>0.0749</b>	<b>0.1411</b>	<b>2,831.5558</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0368	1.2283	0.4758	5.9600e-003	0.2050	6.1700e-003	0.2112	0.0590	5.9100e-003	0.0649		640.9039	640.9039	0.0215	0.0921	668.8996
Worker	0.6789	0.4733	7.6823	0.0210	2.3697	0.0143	2.3840	0.6285	0.0132	0.6416		2,146.7391	2,146.7391	0.0535	0.0489	2,162.6562
<b>Total</b>	<b>0.7157</b>	<b>1.7016</b>	<b>8.1582</b>	<b>0.0269</b>	<b>2.5746</b>	<b>0.0205</b>	<b>2.5951</b>	<b>0.6875</b>	<b>0.0191</b>	<b>0.7065</b>		<b>2,787.6430</b>	<b>2,787.6430</b>	<b>0.0749</b>	<b>0.1411</b>	<b>2,831.5558</b>

**3.5 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	41.9520					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>42.1437</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>



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.1345	0.0938	1.5220	4.1600e-003	0.4695	2.8300e-003	0.4723	0.1245	2.6100e-003	0.1271		425.2974	425.2974	0.0106	9.6900e-003	428.4508
<b>Total</b>	<b>0.1345</b>	<b>0.0938</b>	<b>1.5220</b>	<b>4.1600e-003</b>	<b>0.4695</b>	<b>2.8300e-003</b>	<b>0.4723</b>	<b>0.1245</b>	<b>2.6100e-003</b>	<b>0.1271</b>		<b>425.2974</b>	<b>425.2974</b>	<b>0.0106</b>	<b>9.6900e-003</b>	<b>428.4508</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	41.9520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>42.0115</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.1345	0.0938	1.5220	4.1600e-003	0.4695	2.8300e-003	0.4723	0.1245	2.6100e-003	0.1271		425.2974	425.2974	0.0106	9.6900e-003	428.4508
<b>Total</b>	<b>0.1345</b>	<b>0.0938</b>	<b>1.5220</b>	<b>4.1600e-003</b>	<b>0.4695</b>	<b>2.8300e-003</b>	<b>0.4723</b>	<b>0.1245</b>	<b>2.6100e-003</b>	<b>0.1271</b>		<b>425.2974</b>	<b>425.2974</b>	<b>0.0106</b>	<b>9.6900e-003</b>	<b>428.4508</b>

**3.6 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>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

**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	6.5187	6.6203	66.7654	0.1486	15.5354	0.1057	15.6411	4.1382	0.0981	4.2363		15,413.407	15,413.407	0.9830	0.6054	15,618.3785
Unmitigated	6.5187	6.6203	66.7654	0.1486	15.5354	0.1057	15.6411	4.1382	0.0981	4.2363		15,413.407	15,413.407	0.9830	0.6054	15,618.3785



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
NaturalGas Unmitigated	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148

**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					
Apartments Mid Rise	10560.7	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
<b>Total</b>		<b>0.1139</b>	<b>0.9732</b>	<b>0.4141</b>	<b>6.2100e-003</b>		<b>0.0787</b>	<b>0.0787</b>		<b>0.0787</b>	<b>0.0787</b>		<b>1,242.4316</b>	<b>1,242.4316</b>	<b>0.0238</b>	<b>0.0228</b>	<b>1,249.8148</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	lb/day										lb/day					
Apartments Mid Rise	10.5607	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

Total		0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
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**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288
Unmitigated	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288

**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
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Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

SubCategory	lb/day										lb/day						
Architectural Coating	0.5057					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Consumer Products	5.8410					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Hearth	0.4868	4.1595	1.7700	0.0266		0.3363	0.3363			0.3363	0.3363	0.0000	5,310.0000	5,310.0000	0.1018	0.0974	5,341.5547
Landscaping	0.7315	0.2803	24.3276	1.2900e-003		0.1348	0.1348			0.1348	0.1348		43.8229	43.8229	0.0421		44.8741
<b>Total</b>	<b>7.5650</b>	<b>4.4398</b>	<b>26.0976</b>	<b>0.0278</b>		<b>0.4711</b>	<b>0.4711</b>			<b>0.4711</b>	<b>0.4711</b>	<b>0.0000</b>	<b>5,353.8229</b>	<b>5,353.8229</b>	<b>0.1438</b>	<b>0.0974</b>	<b>5,386.4288</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5057					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8410					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4868	4.1595	1.7700	0.0266		0.3363	0.3363		0.3363	0.3363	0.0000	5,310.0000	5,310.0000	0.1018	0.0974	5,341.5547
Landscaping	0.7315	0.2803	24.3276	1.2900e-003		0.1348	0.1348		0.1348	0.1348		43.8229	43.8229	0.0421		44.8741
<b>Total</b>	<b>7.5650</b>	<b>4.4398</b>	<b>26.0976</b>	<b>0.0278</b>		<b>0.4711</b>	<b>0.4711</b>		<b>0.4711</b>	<b>0.4711</b>	<b>0.0000</b>	<b>5,353.8229</b>	<b>5,353.8229</b>	<b>0.1438</b>	<b>0.0974</b>	<b>5,386.4288</b>

**7.0 Water Detail**



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Summer

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

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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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Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Signal Hill - Orange Bluff**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	295.00	Dwelling Unit	9.20	295,000.00	844

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<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 - Orange Bluff site is 9.2 acres.
- Construction Phase - Estimated construction schedule - 18 months.
- Grading -
- Vehicle Trips - Daily trips from traffic report.
- Woodstoves - No woodstoves.
- Energy Use -
- Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	364.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	14.75	0.00
tblLandUse	LotAcreage	7.76	9.20
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	WD_TR	5.44	7.32
tblWoodstoves	NumberCatalytic	14.75	0.00
tblWoodstoves	NumberNoncatalytic	14.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.1338	24.5911	0.0537	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,316.5460	5,316.5460	1.1973	0.1539	5,379.7656
2023	45.7103	27.8289	42.0900	0.0839	3.2118	1.3051	4.5169	0.8564	1.2213	2.0777	0.0000	8,266.5469	8,266.5469	1.4288	0.1587	8,349.5608
<b>Maximum</b>	<b>45.7103</b>	<b>33.1338</b>	<b>42.0900</b>	<b>0.0839</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>8,266.5469</b>	<b>8,266.5469</b>	<b>1.4288</b>	<b>0.1587</b>	<b>8,349.5608</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	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	1.5216	19.1159	26.1015	0.0537	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	5,316.5460	5,316.5460	1.1973	0.1539	5,379.7656
2023	44.2074	28.8276	46.4525	0.0839	3.2118	1.6323	4.8441	0.8564	1.6306	2.4871	0.0000	8,266.5469	8,266.5469	1.4288	0.1587	8,349.5608
<b>Maximum</b>	<b>44.2074</b>	<b>28.8276</b>	<b>46.4525</b>	<b>0.0839</b>	<b>6.7175</b>	<b>1.6323</b>	<b>7.6650</b>	<b>3.4023</b>	<b>1.6306</b>	<b>4.3497</b>	<b>0.0000</b>	<b>8,266.5469</b>	<b>8,266.5469</b>	<b>1.4288</b>	<b>0.1587</b>	<b>8,349.5608</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>6.57</b>	<b>21.36</b>	<b>-8.81</b>	<b>0.00</b>	<b>56.96</b>	<b>11.62</b>	<b>51.87</b>	<b>61.33</b>	<b>4.73</b>	<b>50.16</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>

**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	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Energy	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
Mobile	6.4054	7.1489	65.2621	0.1423	15.5354	0.1058	15.6412	4.1382	0.0982	4.2364		14,758.1303	14,758.1303	1.0099	0.6320	14,971.7100
<b>Total</b>	<b>14.0842</b>	<b>12.5619</b>	<b>91.7738</b>	<b>0.1763</b>	<b>15.5354</b>	<b>0.6556</b>	<b>16.1910</b>	<b>4.1382</b>	<b>0.6480</b>	<b>4.7862</b>	<b>0.0000</b>	<b>21,354.3849</b>	<b>21,354.3849</b>	<b>1.1776</b>	<b>0.7521</b>	<b>21,607.9536</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	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288
Energy	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
Mobile	6.4054	7.1489	65.2621	0.1423	15.5354	0.1058	15.6412	4.1382	0.0982	4.2364		14,758.1303	14,758.1303	1.0099	0.6320	14,971.7100
<b>Total</b>	<b>14.0842</b>	<b>12.5619</b>	<b>91.7738</b>	<b>0.1763</b>	<b>15.5354</b>	<b>0.6556</b>	<b>16.1910</b>	<b>4.1382</b>	<b>0.6480</b>	<b>4.7862</b>	<b>0.0000</b>	<b>21,354.3849</b>	<b>21,354.3849</b>	<b>1.1776</b>	<b>0.7521</b>	<b>21,607.9536</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
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**

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/14/2022	5	10	1
2	Grading	Grading	1/15/2022	2/15/2022	5	22	2
3	Building Construction	Building Construction	2/16/2022	7/10/2023	5	364	3
4	Architectural Coating	Architectural Coating	5/10/2023	7/10/2023	5	44	5
5	Paving	Paving	6/9/2023	7/10/2023	5	22	4

**Acres of Grading (Site Preparation Phase): 15**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 597,375; Residential Outdoor: 199,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	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	Tractors/Loaders/Backhoes	3	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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	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	212.00	32.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	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

**3.1 Mitigation Measures Construction**

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction On-Site**

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



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000		0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**Mitigated Construction On-Site**

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

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000		0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922	3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>	<b>3,715.8655</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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</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	lb/day										lb/day					

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000		0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289	2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>	<b>2,895.2684</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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

**Mitigated Construction On-Site**

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

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</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	lb/day										lb/day					

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Off-Road	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	0.0622	1.6321	0.5560	6.2700e-003	0.2050	0.0150	0.2200	0.0590	0.0143	0.0734		673.7301	673.7301	0.0224	0.0972	703.2490
Worker	0.7855	0.5919	7.6717	0.0205	2.3697	0.0152	2.3849	0.6285	0.0140	0.6424		2,088.4823	2,088.4823	0.0604	0.0567	2,106.8845
<b>Total</b>	<b>0.8477</b>	<b>2.2240</b>	<b>8.2277</b>	<b>0.0268</b>	<b>2.5746</b>	<b>0.0302</b>	<b>2.6048</b>	<b>0.6875</b>	<b>0.0283</b>	<b>0.7158</b>		<b>2,762.2124</b>	<b>2,762.2124</b>	<b>0.0829</b>	<b>0.1539</b>	<b>2,810.1334</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

<b>Total</b>	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
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**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
<b>Category</b>	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	0.0622	1.6321	0.5560	6.2700e-003	0.2050	0.0150	0.2200	0.0590	0.0143	0.0734		673.7301	673.7301	0.0224	0.0972	703.2490
Worker	0.7855	0.5919	7.6717	0.0205	2.3697	0.0152	2.3849	0.6285	0.0140	0.6424		2,088.4823	2,088.4823	0.0604	0.0567	2,106.8845
<b>Total</b>	<b>0.8477</b>	<b>2.2240</b>	<b>8.2277</b>	<b>0.0268</b>	<b>2.5746</b>	<b>0.0302</b>	<b>2.6048</b>	<b>0.6875</b>	<b>0.0283</b>	<b>0.7158</b>		<b>2,762.2124</b>	<b>2,762.2124</b>	<b>0.0829</b>	<b>0.1539</b>	<b>2,810.1334</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
<b>Category</b>	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>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0356	1.2860	0.4908	5.9700e-003	0.2050	6.2100e-003	0.2112	0.0590	5.9400e-003	0.0650		641.9850	641.9850	0.0214	0.0924	670.0515
Worker	0.7294	0.5228	7.0613	0.0199	2.3697	0.0143	2.3840	0.6285	0.0132	0.6416		2,033.5606	2,033.5606	0.0542	0.0523	2,050.4897
<b>Total</b>	<b>0.7650</b>	<b>1.8088</b>	<b>7.5521</b>	<b>0.0258</b>	<b>2.5746</b>	<b>0.0205</b>	<b>2.5952</b>	<b>0.6875</b>	<b>0.0191</b>	<b>0.7066</b>		<b>2,675.5456</b>	<b>2,675.5456</b>	<b>0.0756</b>	<b>0.1447</b>	<b>2,720.5413</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0356	1.2860	0.4908	5.9700e-003	0.2050	6.2100e-003	0.2112	0.0590	5.9400e-003	0.0650		641.9850	641.9850	0.0214	0.0924	670.0515
Worker	0.7294	0.5228	7.0613	0.0199	2.3697	0.0143	2.3840	0.6285	0.0132	0.6416		2,033.5606	2,033.5606	0.0542	0.0523	2,050.4897
<b>Total</b>	<b>0.7650</b>	<b>1.8088</b>	<b>7.5521</b>	<b>0.0258</b>	<b>2.5746</b>	<b>0.0205</b>	<b>2.5952</b>	<b>0.6875</b>	<b>0.0191</b>	<b>0.7066</b>		<b>2,675.5456</b>	<b>2,675.5456</b>	<b>0.0756</b>	<b>0.1447</b>	<b>2,720.5413</b>

**3.5 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	41.9520					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>42.1437</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>



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.1445	0.1036	1.3989	3.9400e-003	0.4695	2.8300e-003	0.4723	0.1245	2.6100e-003	0.1271		402.8752	402.8752	0.0107	0.0104	406.2291
<b>Total</b>	<b>0.1445</b>	<b>0.1036</b>	<b>1.3989</b>	<b>3.9400e-003</b>	<b>0.4695</b>	<b>2.8300e-003</b>	<b>0.4723</b>	<b>0.1245</b>	<b>2.6100e-003</b>	<b>0.1271</b>		<b>402.8752</b>	<b>402.8752</b>	<b>0.0107</b>	<b>0.0104</b>	<b>406.2291</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	41.9520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>42.0115</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.1445	0.1036	1.3989	3.9400e-003	0.4695	2.8300e-003	0.4723	0.1245	2.6100e-003	0.1271		402.8752	402.8752	0.0107	0.0104	406.2291
<b>Total</b>	<b>0.1445</b>	<b>0.1036</b>	<b>1.3989</b>	<b>3.9400e-003</b>	<b>0.4695</b>	<b>2.8300e-003</b>	<b>0.4723</b>	<b>0.1245</b>	<b>2.6100e-003</b>	<b>0.1271</b>		<b>402.8752</b>	<b>402.8752</b>	<b>0.0107</b>	<b>0.0104</b>	<b>406.2291</b>

**3.6 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>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</b>

**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	6.4054	7.1489	65.2621	0.1423	15.5354	0.1058	15.6412	4.1382	0.0982	4.2364		14,758.130	14,758.130	1.0099	0.6320	14,971.7100
Unmitigated	6.4054	7.1489	65.2621	0.1423	15.5354	0.1058	15.6412	4.1382	0.0982	4.2364		14,758.130	14,758.130	1.0099	0.6320	14,971.7100



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Category	lb/day										lb/day					
NaturalGas Mitigated	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
NaturalGas Unmitigated	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148

**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					
Apartments Mid Rise	10560.7	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
<b>Total</b>		<b>0.1139</b>	<b>0.9732</b>	<b>0.4141</b>	<b>6.2100e-003</b>		<b>0.0787</b>	<b>0.0787</b>		<b>0.0787</b>	<b>0.0787</b>		<b>1,242.4316</b>	<b>1,242.4316</b>	<b>0.0238</b>	<b>0.0228</b>	<b>1,249.8148</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	lb/day										lb/day					
Apartments Mid Rise	10.5607	0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148

Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

Total		0.1139	0.9732	0.4141	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4316	1,242.4316	0.0238	0.0228	1,249.8148
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**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288
Unmitigated	7.5650	4.4398	26.0976	0.0278		0.4711	0.4711		0.4711	0.4711	0.0000	5,353.8229	5,353.8229	0.1438	0.0974	5,386.4288

**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
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Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

SubCategory	lb/day										lb/day						
Architectural Coating	0.5057					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Consumer Products	5.8410					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Hearth	0.4868	4.1595	1.7700	0.0266		0.3363	0.3363			0.3363	0.3363	0.0000	5,310.0000	5,310.0000	0.1018	0.0974	5,341.5547
Landscaping	0.7315	0.2803	24.3276	1.2900e-003		0.1348	0.1348			0.1348	0.1348		43.8229	43.8229	0.0421		44.8741
<b>Total</b>	<b>7.5650</b>	<b>4.4398</b>	<b>26.0976</b>	<b>0.0278</b>		<b>0.4711</b>	<b>0.4711</b>			<b>0.4711</b>	<b>0.4711</b>	<b>0.0000</b>	<b>5,353.8229</b>	<b>5,353.8229</b>	<b>0.1438</b>	<b>0.0974</b>	<b>5,386.4288</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.5057						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Consumer Products	5.8410						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Hearth	0.4868	4.1595	1.7700	0.0266			0.3363	0.3363		0.3363	0.3363	0.0000	5,310.0000	5,310.0000	0.1018	0.0974	5,341.5547
Landscaping	0.7315	0.2803	24.3276	1.2900e-003			0.1348	0.1348		0.1348	0.1348		43.8229	43.8229	0.0421		44.8741
<b>Total</b>	<b>7.5650</b>	<b>4.4398</b>	<b>26.0976</b>	<b>0.0278</b>			<b>0.4711</b>	<b>0.4711</b>		<b>0.4711</b>	<b>0.4711</b>	<b>0.0000</b>	<b>5,353.8229</b>	<b>5,353.8229</b>	<b>0.1438</b>	<b>0.0974</b>	<b>5,386.4288</b>

**7.0 Water Detail**



Signal Hill - Orange Bluff - Los Angeles-South Coast County, Winter

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

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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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Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

**Signal Hill - Town Center Northwest  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	267.00	Dwelling Unit	7.00	267,000.00	764
Regional Shopping Center	26.00	1000sqft	1.30	26,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Town Center Northwest site is 8.3 acres.

Construction Phase - Estimated construction schedule - 24 months.

Grading -

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Daily trips from traffic report.

Woodstoves - No woodstoves.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.

Area Mitigation - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.



## Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	488.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	3/24/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	3/11/2022	2/15/2022
tblConstructionPhase	PhaseEndDate	2/24/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	2/11/2022	1/14/2022
tblConstructionPhase	PhaseStartDate	2/25/2023	10/31/2023
tblConstructionPhase	PhaseStartDate	3/12/2022	2/16/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/15/2022
tblConstructionPhase	PhaseStartDate	1/28/2023	11/30/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	1/1/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	13.35	0.00
tblLandUse	LotAcreage	7.03	7.00
tblLandUse	LotAcreage	0.60	1.30
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	SU_TR	21.10	0.00

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	37.75	0.00
tblWoodstoves	NumberCatalytic	13.35	0.00
tblWoodstoves	NumberNoncatalytic	13.35	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.1290	24.8397	0.0539	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,339.5122	5,339.5122	1.1972	0.1504	5,401.6186
2023	44.3639	27.7177	42.4068	0.0842	3.0729	1.3044	4.3772	0.8197	1.2206	2.0404	0.0000	8,297.4630	8,297.4630	1.4254	0.1541	8,379.0207
Maximum	44.3639	33.1290	42.4068	0.0842	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	8,297.4630	8,297.4630	1.4254	0.1541	8,379.0207

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					

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

2022	1.4345	19.1111	26.3501	0.0539	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	5,339.5122	5,339.5122	1.1972	0.1504	5,401.6186
2023	42.8610	28.7165	46.7693	0.0842	3.0729	1.6316	4.7045	0.8197	1.6300	2.4497	0.0000	8,297.4630	8,297.4630	1.4254	0.1541	8,379.0207
<b>Maximum</b>	<b>42.8610</b>	<b>28.7165</b>	<b>46.7693</b>	<b>0.0842</b>	<b>6.7175</b>	<b>1.6316</b>	<b>7.6650</b>	<b>3.4023</b>	<b>1.6300</b>	<b>4.3497</b>	<b>0.0000</b>	<b>8,297.4630</b>	<b>8,297.4630</b>	<b>1.4254</b>	<b>0.1541</b>	<b>8,379.0207</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>6.94</b>	<b>21.40</b>	<b>-8.73</b>	<b>0.00</b>	<b>57.31</b>	<b>11.62</b>	<b>52.15</b>	<b>61.53</b>	<b>4.73</b>	<b>50.30</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>

**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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Area	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Energy	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
Mobile	5.8983	5.9903	60.4118	0.1345	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,946.6287	13,946.6287	0.8895	0.5478	14,132.0939
<b>Total</b>	<b>13.3976</b>	<b>10.9010</b>	<b>84.4195</b>	<b>0.1654</b>	<b>14.0570</b>	<b>0.5942</b>	<b>14.6512</b>	<b>3.7444</b>	<b>0.5873</b>	<b>4.3317</b>	<b>0.0000</b>	<b>19,930.4637</b>	<b>19,930.4637</b>	<b>1.0415</b>	<b>0.6567</b>	<b>20,152.2039</b>

**Mitigated Operational**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
Area	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Energy	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
Mobile	5.8983	5.9903	60.4118	0.1345	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,946.6287	13,946.6287	0.8895	0.5478	14,132.0939
<b>Total</b>	<b>13.3976</b>	<b>10.9010</b>	<b>84.4195</b>	<b>0.1654</b>	<b>14.0570</b>	<b>0.5942</b>	<b>14.6512</b>	<b>3.7444</b>	<b>0.5873</b>	<b>4.3317</b>	<b>0.0000</b>	<b>19,930.4637</b>	<b>19,930.4637</b>	<b>1.0415</b>	<b>0.6567</b>	<b>20,152.2039</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
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	1/1/2022	1/14/2022	5	10	1
2	Grading	Grading	1/15/2022	2/15/2022	5	22	2
3	Building Construction	Building Construction	2/16/2022	12/29/2023	5	488	3
4	Paving	Paving	11/30/2023	12/29/2023	5	22	4
5	Architectural Coating	Architectural Coating	10/31/2023	12/29/2023	5	44	5

**Acres of Grading (Site Preparation Phase): 15**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 540,675; Residential Outdoor: 180,225; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	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	201.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Unmitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, 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
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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Mitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, 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
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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Unmitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, 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
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	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Mitigated Construction Off-Site**



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

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	0.0649	1.6165	0.5542	6.4600e-003	0.2114	0.0154	0.2268	0.0609	0.0147	0.0756	694.5233	694.5233	0.0232	0.1001	724.9280	
Worker	0.6957	0.5079	7.9221	0.0206	2.2467	0.0144	2.2611	0.5958	0.0133	0.6091	2,090.6554	2,090.6554	0.0566	0.0503	2,107.0585	
<b>Total</b>	<b>0.7606</b>	<b>2.1244</b>	<b>8.4763</b>	<b>0.0270</b>	<b>2.4581</b>	<b>0.0298</b>	<b>2.4879</b>	<b>0.6567</b>	<b>0.0280</b>	<b>0.6847</b>	<b>2,785.1787</b>	<b>2,785.1787</b>	<b>0.0798</b>	<b>0.1504</b>	<b>2,831.9864</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</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					

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0649	1.6165	0.5542	6.4600e-003	0.2114	0.0154	0.2268	0.0609	0.0147	0.0756	694.5233	694.5233	0.0232	0.1001	724.9280	
Worker	0.6957	0.5079	7.9221	0.0206	2.2467	0.0144	2.2611	0.5958	0.0133	0.6091	2,090.6554	2,090.6554	0.0566	0.0503	2,107.0585	
<b>Total</b>	<b>0.7606</b>	<b>2.1244</b>	<b>8.4763</b>	<b>0.0270</b>	<b>2.4581</b>	<b>0.0298</b>	<b>2.4879</b>	<b>0.6567</b>	<b>0.0280</b>	<b>0.6847</b>	<b>2,785.1787</b>	<b>2,785.1787</b>	<b>0.0798</b>	<b>0.1504</b>	<b>2,831.9864</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	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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Vendor	0.0380	1.2667	0.4907	6.1400e-003	0.2114	6.3700e-003	0.2178	0.0609	6.0900e-003	0.0670		660.9322	660.9322	0.0222	0.0950	689.8027
Worker	0.6437	0.4487	7.2837	0.0199	2.2467	0.0136	2.2603	0.5958	0.0125	0.6083		2,035.3517	2,035.3517	0.0507	0.0464	2,050.4429
<b>Total</b>	<b>0.6816</b>	<b>1.7154</b>	<b>7.7744</b>	<b>0.0260</b>	<b>2.4581</b>	<b>0.0199</b>	<b>2.4780</b>	<b>0.6567</b>	<b>0.0186</b>	<b>0.6753</b>		<b>2,696.2839</b>	<b>2,696.2839</b>	<b>0.0728</b>	<b>0.1414</b>	<b>2,740.2456</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</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	0.0380	1.2667	0.4907	6.1400e-003	0.2114	6.3700e-003	0.2178	0.0609	6.0900e-003	0.0670		660.9322	660.9322	0.0222	0.0950	689.8027



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Worker	0.6437	0.4487	7.2837	0.0199	2.2467	0.0136	2.2603	0.5958	0.0125	0.6083		2,035.3517	2,035.3517	0.0507	0.0464	2,050.4429
<b>Total</b>	<b>0.6816</b>	<b>1.7154</b>	<b>7.7744</b>	<b>0.0260</b>	<b>2.4581</b>	<b>0.0199</b>	<b>2.4780</b>	<b>0.6567</b>	<b>0.0186</b>	<b>0.6753</b>		<b>2,696.2839</b>	<b>2,696.2839</b>	<b>0.0728</b>	<b>0.1414</b>	<b>2,740.2456</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	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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
<b>Total</b>	<b>0.0480</b>	<b>0.0335</b>	<b>0.5436</b>	<b>1.4800e-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>151.8919</b>	<b>151.8919</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>153.0181</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	lb/day										lb/day					
Archit. Coating	40.7090					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>40.9007</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Worker	0.1281	0.0893	1.4495	3.9600e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		405.0451	405.0451	0.0101	9.2300e-003	408.0483
<b>Total</b>	<b>0.1281</b>	<b>0.0893</b>	<b>1.4495</b>	<b>3.9600e-003</b>	<b>0.4471</b>	<b>2.7000e-003</b>	<b>0.4498</b>	<b>0.1186</b>	<b>2.4800e-003</b>	<b>0.1211</b>		<b>405.0451</b>	<b>405.0451</b>	<b>0.0101</b>	<b>9.2300e-003</b>	<b>408.0483</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.7090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7684</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Worker	0.1281	0.0893	1.4495	3.9600e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		405.0451	405.0451	0.0101	9.2300e-003	408.0483
<b>Total</b>	<b>0.1281</b>	<b>0.0893</b>	<b>1.4495</b>	<b>3.9600e-003</b>	<b>0.4471</b>	<b>2.7000e-003</b>	<b>0.4498</b>	<b>0.1186</b>	<b>2.4800e-003</b>	<b>0.1211</b>		<b>405.0451</b>	<b>405.0451</b>	<b>0.0101</b>	<b>9.2300e-003</b>	<b>408.0483</b>

**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	5.8983	5.9903	60.4118	0.1345	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,946.628	13,946.628	0.8895	0.5478	14,132.0939
Unmitigated	5.8983	5.9903	60.4118	0.1345	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,946.628	13,946.628	0.8895	0.5478	14,132.0939

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,953.91	1,764.87	1468.50	6,347,555	6,347,555
Regional Shopping Center	0.00	0.00	0.00		
<b>Total</b>	<b>1,953.91</b>	<b>1,764.87</b>	<b>1,468.50</b>	<b>6,347,555</b>	<b>6,347,555</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
NaturalGas Unmitigated	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	9558.3	0.1031	0.8809	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712		1,124.5059	1,124.5059	0.0216	0.0206	1,131.1883
Regional Shopping Center	116.11	1.2500e-003	0.0114	9.5600e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.6600	13.6600	2.6000e-004	2.5000e-004	13.7411
<b>Total</b>		<b>0.1043</b>	<b>0.8922</b>	<b>0.3844</b>	<b>5.6900e-003</b>		<b>0.0721</b>	<b>0.0721</b>		<b>0.0721</b>	<b>0.0721</b>		<b>1,138.1658</b>	<b>1,138.1658</b>	<b>0.0218</b>	<b>0.0209</b>	<b>1,144.9294</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	9.5583	0.1031	0.8809	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712		1,124.5059	1,124.5059	0.0216	0.0206	1,131.1883
Regional Shopping Center	0.11611	1.2500e-003	0.0114	9.5600e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.6600	13.6600	2.6000e-004	2.5000e-004	13.7411
<b>Total</b>		<b>0.1043</b>	<b>0.8922</b>	<b>0.3844</b>	<b>5.6900e-003</b>		<b>0.0721</b>	<b>0.0721</b>		<b>0.0721</b>	<b>0.0721</b>		<b>1,138.1658</b>	<b>1,138.1658</b>	<b>0.0218</b>	<b>0.0209</b>	<b>1,144.9294</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Unmitigated	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806

**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	0.4907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8014					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Hearth	0.4406	3.7647	1.6020	0.0240		0.3044	0.3044		0.3044	0.3044	0.0000	4,806.0000	4,806.0000	0.0921	0.0881	4,834.5597
Landscaping	0.6623	0.2537	22.0212	1.1600e-003		0.1221	0.1221		0.1221	0.1221		39.6692	39.6692	0.0381		40.6209
<b>Total</b>	<b>7.3950</b>	<b>4.0184</b>	<b>23.6232</b>	<b>0.0252</b>		<b>0.4264</b>	<b>0.4264</b>		<b>0.4264</b>	<b>0.4264</b>	<b>0.0000</b>	<b>4,845.6692</b>	<b>4,845.6692</b>	<b>0.1302</b>	<b>0.0881</b>	<b>4,875.1806</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8014					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4406	3.7647	1.6020	0.0240		0.3044	0.3044		0.3044	0.3044	0.0000	4,806.0000	4,806.0000	0.0921	0.0881	4,834.5597
Landscaping	0.6623	0.2537	22.0212	1.1600e-003		0.1221	0.1221		0.1221	0.1221		39.6692	39.6692	0.0381		40.6209
<b>Total</b>	<b>7.3950</b>	<b>4.0184</b>	<b>23.6232</b>	<b>0.0252</b>		<b>0.4264</b>	<b>0.4264</b>		<b>0.4264</b>	<b>0.4264</b>	<b>0.0000</b>	<b>4,845.6692</b>	<b>4,845.6692</b>	<b>0.1302</b>	<b>0.0881</b>	<b>4,875.1806</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Summer

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

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

**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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Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

**Signal Hill - Town Center Northwest  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	267.00	Dwelling Unit	7.00	267,000.00	764
Regional Shopping Center	26.00	1000sqft	1.30	26,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Town Center Northwest site is 8.3 acres.

Construction Phase - Estimated construction schedule - 24 months.

Grading -

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Daily trips from traffic report.

Woodstoves - No woodstoves.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.

Area Mitigation - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.



## Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	488.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	3/24/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	1/27/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	3/11/2022	2/15/2022
tblConstructionPhase	PhaseEndDate	2/24/2023	12/29/2023
tblConstructionPhase	PhaseEndDate	2/11/2022	1/14/2022
tblConstructionPhase	PhaseStartDate	2/25/2023	10/31/2023
tblConstructionPhase	PhaseStartDate	3/12/2022	2/16/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/15/2022
tblConstructionPhase	PhaseStartDate	1/28/2023	11/30/2023
tblConstructionPhase	PhaseStartDate	1/29/2022	1/1/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	13.35	0.00
tblLandUse	LotAcreage	7.03	7.00
tblLandUse	LotAcreage	0.60	1.30
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	SU_TR	21.10	0.00

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

tblVehicleTrips	WD_TR	5.44	7.32
tblVehicleTrips	WD_TR	37.75	0.00
tblWoodstoves	NumberCatalytic	13.35	0.00
tblWoodstoves	NumberNoncatalytic	13.35	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.1338	24.2104	0.0529	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	5,229.2354	5,229.2354	1.1973	0.1540	5,292.4227
2023	44.4236	27.8370	41.6723	0.0829	3.0729	1.3044	4.3773	0.8197	1.2207	2.0404	0.0000	8,161.9095	8,161.9095	1.4262	0.1584	8,244.7624
<b>Maximum</b>	<b>44.4236</b>	<b>33.1338</b>	<b>41.6723</b>	<b>0.0829</b>	<b>19.8582</b>	<b>1.6139</b>	<b>21.4721</b>	<b>10.1558</b>	<b>1.4848</b>	<b>11.6406</b>	<b>0.0000</b>	<b>8,161.9095</b>	<b>8,161.9095</b>	<b>1.4262</b>	<b>0.1584</b>	<b>8,244.7624</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					

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

2022	1.4828	19.1159	25.7208	0.0529	6.7175	0.9475	7.6650	3.4023	0.9474	4.3497	0.0000	5,229.2354	5,229.2354	1.1973	0.1540	5,292.4227
2023	42.9207	28.8358	46.0348	0.0829	3.0729	1.6316	4.7045	0.8197	1.6300	2.4497	0.0000	8,161.9095	8,161.9095	1.4262	0.1584	8,244.7624
<b>Maximum</b>	<b>42.9207</b>	<b>28.8358</b>	<b>46.0348</b>	<b>0.0829</b>	<b>6.7175</b>	<b>1.6316</b>	<b>7.6650</b>	<b>3.4023</b>	<b>1.6300</b>	<b>4.3497</b>	<b>0.0000</b>	<b>8,161.9095</b>	<b>8,161.9095</b>	<b>1.4262</b>	<b>0.1584</b>	<b>8,244.7624</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
Percent Reduction	6.83	21.35	-8.91	0.00	57.31	11.62	52.15	61.53	4.73	50.30	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Energy	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
Mobile	5.7958	6.4686	59.0515	0.1288	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,353.7091	13,353.7091	0.9138	0.5718	13,546.9640
<b>Total</b>	<b>13.2951</b>	<b>11.3793</b>	<b>83.0592</b>	<b>0.1596</b>	<b>14.0570</b>	<b>0.5942</b>	<b>14.6512</b>	<b>3.7444</b>	<b>0.5874</b>	<b>4.3317</b>	<b>0.0000</b>	<b>19,337.5441</b>	<b>19,337.5441</b>	<b>1.0658</b>	<b>0.6808</b>	<b>19,567.0740</b>

**Mitigated Operational**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Energy	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
Mobile	5.7958	6.4686	59.0515	0.1288	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,353.7091	13,353.7091	0.9138	0.5718	13,546.9640
<b>Total</b>	<b>13.2951</b>	<b>11.3793</b>	<b>83.0592</b>	<b>0.1596</b>	<b>14.0570</b>	<b>0.5942</b>	<b>14.6512</b>	<b>3.7444</b>	<b>0.5874</b>	<b>4.3317</b>	<b>0.0000</b>	<b>19,337.5441</b>	<b>19,337.5441</b>	<b>1.0658</b>	<b>0.6808</b>	<b>19,567.0740</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
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	1/1/2022	1/14/2022	5	10	1
2	Grading	Grading	1/15/2022	2/15/2022	5	22	2
3	Building Construction	Building Construction	2/16/2022	12/29/2023	5	488	3
4	Paving	Paving	11/30/2023	12/29/2023	5	22	4
5	Architectural Coating	Architectural Coating	10/31/2023	12/29/2023	5	44	5

**Acres of Grading (Site Preparation Phase): 15**



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 540,675; Residential Outdoor: 180,225; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	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	201.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Unmitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5163	0.0000	6.5163	3.3490	0.0000	3.3490			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>0.9312</b>	<b>19.0656</b>	<b>22.9600</b>	<b>0.0380</b>	<b>6.5163</b>	<b>0.9462</b>	<b>7.4625</b>	<b>3.3490</b>	<b>0.9462</b>	<b>4.2951</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

**Mitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</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	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>1.9486</b>	<b>20.8551</b>	<b>15.2727</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.9409</b>	<b>8.0234</b>	<b>3.4247</b>	<b>0.8656</b>	<b>4.2903</b>		<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Unmitigated Construction Off-Site**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
<b>Total</b>	<b>0.7263</b>	<b>14.8397</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.3479</b>	<b>0.7555</b>	<b>3.1034</b>	<b>1.1353</b>	<b>0.7555</b>	<b>1.8908</b>	<b>0.0000</b>	<b>2,872.0464</b>	<b>2,872.0464</b>	<b>0.9289</b>		<b>2,895.2684</b>

**Mitigated Construction Off-Site**



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Category	lb/day										lb/day					
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	0.0642	1.6831	0.5734	6.4700e-003	0.2114	0.0155	0.2268	0.0609	0.0148	0.0757		694.7842	694.7842	0.0231	0.1002	725.2255
Worker	0.7447	0.5612	7.2736	0.0195	2.2467	0.0144	2.2611	0.5958	0.0133	0.6091		1,980.1176	1,980.1176	0.0573	0.0537	1,997.5650
<b>Total</b>	<b>0.8089</b>	<b>2.2443</b>	<b>7.8470</b>	<b>0.0259</b>	<b>2.4581</b>	<b>0.0299</b>	<b>2.4879</b>	<b>0.6567</b>	<b>0.0280</b>	<b>0.6847</b>		<b>2,674.9019</b>	<b>2,674.9019</b>	<b>0.0804</b>	<b>0.1540</b>	<b>2,722.7905</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</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					

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0642	1.6831	0.5734	6.4700e-003	0.2114	0.0155	0.2268	0.0609	0.0148	0.0757	694.7842	694.7842	0.0231	0.1002	725.2255
Worker	0.7447	0.5612	7.2736	0.0195	2.2467	0.0144	2.2611	0.5958	0.0133	0.6091	1,980.1176	1,980.1176	0.0573	0.0537	1,997.5650
<b>Total</b>	<b>0.8089</b>	<b>2.2443</b>	<b>7.8470</b>	<b>0.0259</b>	<b>2.4581</b>	<b>0.0299</b>	<b>2.4879</b>	<b>0.6567</b>	<b>0.0280</b>	<b>0.6847</b>	<b>2,674.9019</b>	<b>2,674.9019</b>	<b>0.0804</b>	<b>0.1540</b>	<b>2,722.7905</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	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



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Vendor	0.0367	1.3262	0.5061	6.1500e-003	0.2114	6.4100e-003	0.2178	0.0609	6.1300e-003	0.0670		662.0470	662.0470	0.0221	0.0953	690.9906
Worker	0.6916	0.4957	6.6949	0.0188	2.2467	0.0136	2.2603	0.5958	0.0125	0.6083		1,928.0457	1,928.0457	0.0514	0.0496	1,944.0964
<b>Total</b>	<b>0.7282</b>	<b>1.8219</b>	<b>7.2011</b>	<b>0.0250</b>	<b>2.4581</b>	<b>0.0200</b>	<b>2.4781</b>	<b>0.6567</b>	<b>0.0186</b>	<b>0.6753</b>		<b>2,590.0927</b>	<b>2,590.0927</b>	<b>0.0734</b>	<b>0.1448</b>	<b>2,635.0870</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.6739</b>	<b>14.2261</b>	<b>17.8738</b>	<b>0.0269</b>		<b>0.9036</b>	<b>0.9036</b>		<b>0.9036</b>	<b>0.9036</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	0.0367	1.3262	0.5061	6.1500e-003	0.2114	6.4100e-003	0.2178	0.0609	6.1300e-003	0.0670		662.0470	662.0470	0.0221	0.0953	690.9906

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Worker	0.6916	0.4957	6.6949	0.0188	2.2467	0.0136	2.2603	0.5958	0.0125	0.6083		1,928.0457	1,928.0457	0.0514	0.0496	1,944.0964
<b>Total</b>	<b>0.7282</b>	<b>1.8219</b>	<b>7.2011</b>	<b>0.0250</b>	<b>2.4581</b>	<b>0.0200</b>	<b>2.4781</b>	<b>0.6567</b>	<b>0.0186</b>	<b>0.6753</b>		<b>2,590.0927</b>	<b>2,590.0927</b>	<b>0.0734</b>	<b>0.1448</b>	<b>2,635.0870</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	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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	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>0.5609</b>	<b>11.2952</b>	<b>17.2957</b>	<b>0.0228</b>		<b>0.6093</b>	<b>0.6093</b>		<b>0.6093</b>	<b>0.6093</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
<b>Total</b>	<b>0.0516</b>	<b>0.0370</b>	<b>0.4996</b>	<b>1.4100e-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>143.8840</b>	<b>143.8840</b>	<b>3.8300e-003</b>	<b>3.7000e-003</b>	<b>145.0818</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	lb/day										lb/day					
Archit. Coating	40.7090					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>40.9007</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Worker	0.1376	0.0986	1.3323	3.7500e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		383.6907	383.6907	0.0102	9.8600e-003	386.8849
<b>Total</b>	<b>0.1376</b>	<b>0.0986</b>	<b>1.3323</b>	<b>3.7500e-003</b>	<b>0.4471</b>	<b>2.7000e-003</b>	<b>0.4498</b>	<b>0.1186</b>	<b>2.4800e-003</b>	<b>0.1211</b>		<b>383.6907</b>	<b>383.6907</b>	<b>0.0102</b>	<b>9.8600e-003</b>	<b>386.8849</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.7090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7684</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</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

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Worker	0.1376	0.0986	1.3323	3.7500e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		383.6907	383.6907	0.0102	9.8600e-003	386.8849
<b>Total</b>	<b>0.1376</b>	<b>0.0986</b>	<b>1.3323</b>	<b>3.7500e-003</b>	<b>0.4471</b>	<b>2.7000e-003</b>	<b>0.4498</b>	<b>0.1186</b>	<b>2.4800e-003</b>	<b>0.1211</b>		<b>383.6907</b>	<b>383.6907</b>	<b>0.0102</b>	<b>9.8600e-003</b>	<b>386.8849</b>

**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	5.7958	6.4686	59.0515	0.1288	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,353.709	13,353.709	0.9138	0.5718	13,546.9640
Unmitigated	5.7958	6.4686	59.0515	0.1288	14.0570	0.0957	14.1527	3.7444	0.0888	3.8332		13,353.709	13,353.709	0.9138	0.5718	13,546.9640

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,953.91	1,764.87	1468.50	6,347,555	6,347,555
Regional Shopping Center	0.00	0.00	0.00		
<b>Total</b>	<b>1,953.91</b>	<b>1,764.87</b>	<b>1,468.50</b>	<b>6,347,555</b>	<b>6,347,555</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294
NaturalGas Unmitigated	0.1043	0.8923	0.3844	5.6900e-003		0.0721	0.0721		0.0721	0.0721		1,138.1658	1,138.1658	0.0218	0.0209	1,144.9294

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	9558.3	0.1031	0.8809	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712		1,124.5059	1,124.5059	0.0216	0.0206	1,131.1883
Regional Shopping Center	116.11	1.2500e-003	0.0114	9.5600e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.6600	13.6600	2.6000e-004	2.5000e-004	13.7411
<b>Total</b>		<b>0.1043</b>	<b>0.8922</b>	<b>0.3844</b>	<b>5.6900e-003</b>		<b>0.0721</b>	<b>0.0721</b>		<b>0.0721</b>	<b>0.0721</b>		<b>1,138.1658</b>	<b>1,138.1658</b>	<b>0.0218</b>	<b>0.0209</b>	<b>1,144.9294</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	9.5583	0.1031	0.8809	0.3748	5.6200e-003		0.0712	0.0712		0.0712	0.0712		1,124.5059	1,124.5059	0.0216	0.0206	1,131.1883
Regional Shopping Center	0.11611	1.2500e-003	0.0114	9.5600e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004		13.6600	13.6600	2.6000e-004	2.5000e-004	13.7411
<b>Total</b>		<b>0.1043</b>	<b>0.8922</b>	<b>0.3844</b>	<b>5.6900e-003</b>		<b>0.0721</b>	<b>0.0721</b>		<b>0.0721</b>	<b>0.0721</b>		<b>1,138.1658</b>	<b>1,138.1658</b>	<b>0.0218</b>	<b>0.0209</b>	<b>1,144.9294</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806
Unmitigated	7.3950	4.0184	23.6232	0.0252		0.4264	0.4264		0.4264	0.4264	0.0000	4,845.6692	4,845.6692	0.1302	0.0881	4,875.1806

**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	0.4907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8014					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Hearth	0.4406	3.7647	1.6020	0.0240		0.3044	0.3044		0.3044	0.3044	0.0000	4,806.0000	4,806.0000	0.0921	0.0881	4,834.5597
Landscaping	0.6623	0.2537	22.0212	1.1600e-003		0.1221	0.1221		0.1221	0.1221		39.6692	39.6692	0.0381		40.6209
<b>Total</b>	<b>7.3950</b>	<b>4.0184</b>	<b>23.6232</b>	<b>0.0252</b>		<b>0.4264</b>	<b>0.4264</b>		<b>0.4264</b>	<b>0.4264</b>	<b>0.0000</b>	<b>4,845.6692</b>	<b>4,845.6692</b>	<b>0.1302</b>	<b>0.0881</b>	<b>4,875.1806</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4907					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.8014					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4406	3.7647	1.6020	0.0240		0.3044	0.3044		0.3044	0.3044	0.0000	4,806.0000	4,806.0000	0.0921	0.0881	4,834.5597
Landscaping	0.6623	0.2537	22.0212	1.1600e-003		0.1221	0.1221		0.1221	0.1221		39.6692	39.6692	0.0381		40.6209
<b>Total</b>	<b>7.3950</b>	<b>4.0184</b>	<b>23.6232</b>	<b>0.0252</b>		<b>0.4264</b>	<b>0.4264</b>		<b>0.4264</b>	<b>0.4264</b>	<b>0.0000</b>	<b>4,845.6692</b>	<b>4,845.6692</b>	<b>0.1302</b>	<b>0.0881</b>	<b>4,875.1806</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Signal Hill - Town Center Northwest - Los Angeles-South Coast County, Winter

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

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

**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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Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**Signal Hill - Walnut Bluff**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	90.00	Dwelling Unit	2.00	90,000.00	257

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.983	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

- Project Characteristics -
- Land Use - Walnut Bluff site is 2 acres.
- Construction Phase - Estimated construction schedule - 12 months.
- Grading -
- Vehicle Trips - Daily trips from traffic report.
- Woodstoves - No woodstoves.
- Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	233.00
tblConstructionPhase	NumDays	4.00	22.00
tblConstructionPhase	NumDays	2.00	5.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	4.50	0.00
tblLandUse	LotAcreage	2.37	2.00
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	WD_TR	5.44	7.32
tblWoodstoves	NumberCatalytic	4.50	0.00
tblWoodstoves	NumberNoncatalytic	4.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	28.4733	21.4051	27.1006	0.0498	7.1944	1.0292	7.9374	3.4544	0.9815	4.1379	0.0000	4,737.3470	4,737.3470	0.8109	0.0531	4,773.4421
<b>Maximum</b>	<b>28.4733</b>	<b>21.4051</b>	<b>27.1006</b>	<b>0.0498</b>	<b>7.1944</b>	<b>1.0292</b>	<b>7.9374</b>	<b>3.4544</b>	<b>0.9815</b>	<b>4.1379</b>	<b>0.0000</b>	<b>4,737.3470</b>	<b>4,737.3470</b>	<b>0.8109</b>	<b>0.0531</b>	<b>4,773.4421</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**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	26.9521	20.7933	28.9167	0.0498	2.4597	1.2241	2.9454	1.1649	1.2234	1.6506	0.0000	4,737.3470	4,737.3470	0.8109	0.0531	4,773.4421
Maximum	26.9521	20.7933	28.9167	0.0498	2.4597	1.2241	2.9454	1.1649	1.2234	1.6506	0.0000	4,737.3470	4,737.3470	0.8109	0.0531	4,773.4421

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.34	2.86	-6.70	0.00	65.81	-18.94	62.89	66.28	-24.64	60.11	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

Energy	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
Mobile	2.0471	2.1298	21.2722	0.0466	4.7392	0.0332	4.7724	1.2623	0.0309	1.2932		4,796.4749	4,796.4749	0.3081	0.1910	4,861.1041
<b>Total</b>	<b>4.3904</b>	<b>3.7813</b>	<b>29.3653</b>	<b>0.0570</b>	<b>4.7392</b>	<b>0.2010</b>	<b>4.9401</b>	<b>1.2623</b>	<b>0.1986</b>	<b>1.4609</b>	<b>0.0000</b>	<b>6,808.8916</b>	<b>6,808.8916</b>	<b>0.3592</b>	<b>0.2277</b>	<b>6,885.7215</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	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180
Energy	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
Mobile	2.0471	2.1298	21.2722	0.0466	4.7392	0.0332	4.7724	1.2623	0.0309	1.2932		4,796.4749	4,796.4749	0.3081	0.1910	4,861.1041
<b>Total</b>	<b>4.3904</b>	<b>3.7813</b>	<b>29.3653</b>	<b>0.0570</b>	<b>4.7392</b>	<b>0.2010</b>	<b>4.9401</b>	<b>1.2623</b>	<b>0.1986</b>	<b>1.4609</b>	<b>0.0000</b>	<b>6,808.8916</b>	<b>6,808.8916</b>	<b>0.3592</b>	<b>0.2277</b>	<b>6,885.7215</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
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**



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2022	1/7/2022	5	5	1
2	Grading	Grading	1/8/2022	2/8/2022	5	22	2
3	Building Construction	Building Construction	2/9/2022	12/30/2022	5	233	3
4	Architectural Coating	Architectural Coating	12/1/2022	12/30/2022	5	22	5
5	Paving	Paving	12/19/2022	12/30/2022	5	10	4

**Acres of Grading (Site Preparation Phase): 4.69**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 182,250; Residential Outdoor: 60,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

Category	lb/day										lb/day				
Fugitive Dust					6.2641	0.0000	6.2641	3.0039	0.0000	3.0039			0.0000		0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389	1,679.6457
<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>6.2641</b>	<b>0.6225</b>	<b>6.8866</b>	<b>3.0039</b>	<b>0.5727</b>	<b>3.5766</b>		<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>	<b>1,679.6457</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	0.0277	0.0202	0.3153	8.2000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		83.2102	83.2102	2.2500e-003	2.0000e-003	83.8630
<b>Total</b>	<b>0.0277</b>	<b>0.0202</b>	<b>0.3153</b>	<b>8.2000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>83.2102</b>	<b>83.2102</b>	<b>2.2500e-003</b>	<b>2.0000e-003</b>	<b>83.8630</b>

**Mitigated Construction On-Site**

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
Fugitive Dust					2.0765	0.0000	2.0765	0.9958	0.0000	0.9958			0.0000			0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
<b>Total</b>	<b>0.4212</b>	<b>8.4089</b>	<b>9.8221</b>	<b>0.0172</b>	<b>2.0765</b>	<b>0.3747</b>	<b>2.4513</b>	<b>0.9958</b>	<b>0.3747</b>	<b>1.3705</b>	<b>0.0000</b>	<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</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	0.0277	0.0202	0.3153	8.2000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		83.2102	83.2102	2.2500e-003	2.0000e-003	83.8630
<b>Total</b>	<b>0.0277</b>	<b>0.0202</b>	<b>0.3153</b>	<b>8.2000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>83.2102</b>	<b>83.2102</b>	<b>2.2500e-003</b>	<b>2.0000e-003</b>	<b>83.8630</b>

**3.3 Grading - 2022**

Unmitigated Construction On-Site

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.7423</b>	<b>7.8249</b>	<b>3.4247</b>	<b>0.6829</b>	<b>4.1076</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</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	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
<b>Total</b>	<b>0.0346</b>	<b>0.0253</b>	<b>0.3941</b>	<b>1.0200e-003</b>	<b>0.1118</b>	<b>7.2000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>104.0127</b>	<b>104.0127</b>	<b>2.8200e-003</b>	<b>2.5000e-003</b>	<b>104.8288</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.5043	10.2150	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>0.5043</b>	<b>10.2150</b>	<b>12.1450</b>	<b>0.0206</b>	<b>2.3479</b>	<b>0.4850</b>	<b>2.8329</b>	<b>1.1353</b>	<b>0.4850</b>	<b>1.6203</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</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	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
<b>Total</b>	<b>0.0346</b>	<b>0.0253</b>	<b>0.3941</b>	<b>1.0200e-003</b>	<b>0.1118</b>	<b>7.2000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>104.0127</b>	<b>104.0127</b>	<b>2.8200e-003</b>	<b>2.5000e-003</b>	<b>104.8288</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0197	0.4898	0.1680	1.9600e-003	0.0641	4.6700e-003	0.0687	0.0184	4.4600e-003	0.0229		210.4616	210.4616	7.0300e-003	0.0303	219.6751
Worker	0.2250	0.1642	2.5619	6.6500e-003	0.7266	4.6600e-003	0.7312	0.1927	4.2900e-003	0.1970		676.0826	676.0826	0.0183	0.0163	681.3871
<b>Total</b>	<b>0.2446</b>	<b>0.6541</b>	<b>2.7298</b>	<b>8.6100e-003</b>	<b>0.7906</b>	<b>9.3300e-003</b>	<b>0.7999</b>	<b>0.2111</b>	<b>8.7500e-003</b>	<b>0.2199</b>		<b>886.5442</b>	<b>886.5442</b>	<b>0.0253</b>	<b>0.0466</b>	<b>901.0622</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0221		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</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	0.0197	0.4898	0.1680	1.9600e-003	0.0641	4.6700e-003	0.0687	0.0184	4.4600e-003	0.0229		210.4616	210.4616	7.0300e-003	0.0303	219.6751
Worker	0.2250	0.1642	2.5619	6.6500e-003	0.7266	4.6600e-003	0.7312	0.1927	4.2900e-003	0.1970		676.0826	676.0826	0.0183	0.0163	681.3871
<b>Total</b>	<b>0.2446</b>	<b>0.6541</b>	<b>2.7298</b>	<b>8.6100e-003</b>	<b>0.7906</b>	<b>9.3300e-003</b>	<b>0.7999</b>	<b>0.2111</b>	<b>8.7500e-003</b>	<b>0.2199</b>		<b>886.5442</b>	<b>886.5442</b>	<b>0.0253</b>	<b>0.0466</b>	<b>901.0622</b>

**3.5 Architectural Coating - 2022**

**Unmitigated Construction On-Site**



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
Archit. Coating	25.5978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>25.8024</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0450	0.0329	0.5124	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		135.2165	135.2165	3.6600e-003	3.2500e-003	136.2774
<b>Total</b>	<b>0.0450</b>	<b>0.0329</b>	<b>0.5124</b>	<b>1.3300e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>135.2165</b>	<b>135.2165</b>	<b>3.6600e-003</b>	<b>3.2500e-003</b>	<b>136.2774</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.5978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>25.6573</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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	0.0450	0.0329	0.5124	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		135.2165	135.2165	3.6600e-003	3.2500e-003	136.2774
<b>Total</b>	<b>0.0450</b>	<b>0.0329</b>	<b>0.5124</b>	<b>1.3300e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>135.2165</b>	<b>135.2165</b>	<b>3.6600e-003</b>	<b>3.2500e-003</b>	<b>136.2774</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**3.6 Paving - 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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</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	0.0450	0.0329	0.5124	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		135.2165	135.2165	3.6600e-003	3.2500e-003	136.2774
<b>Total</b>	<b>0.0450</b>	<b>0.0329</b>	<b>0.5124</b>	<b>1.3300e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>135.2165</b>	<b>135.2165</b>	<b>3.6600e-003</b>	<b>3.2500e-003</b>	<b>136.2774</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.3864</b>	<b>0.3864</b>		<b>0.3864</b>	<b>0.3864</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</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	0.0450	0.0329	0.5124	1.3300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		135.2165	135.2165	3.6600e-003	3.2500e-003	136.2774
<b>Total</b>	<b>0.0450</b>	<b>0.0329</b>	<b>0.5124</b>	<b>1.3300e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>135.2165</b>	<b>135.2165</b>	<b>3.6600e-003</b>	<b>3.2500e-003</b>	<b>136.2774</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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	2.0471	2.1298	21.2722	0.0466	4.7392	0.0332	4.7724	1.2623	0.0309	1.2932		4,796.4749	4,796.4749	0.3081	0.1910	4,861.1041
Unmitigated	2.0471	2.1298	21.2722	0.0466	4.7392	0.0332	4.7724	1.2623	0.0309	1.2932		4,796.4749	4,796.4749	0.3081	0.1910	4,861.1041

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	658.80	594.90	495.00	2,140,065	2,140,065
Total	658.80	594.90	495.00	2,140,065	2,140,065

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.0035

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
Natural Gas Unmitigated	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994

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

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

Apartments Mid Rise	3221.9	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
<b>Total</b>		<b>0.0348</b>	<b>0.2969</b>	<b>0.1264</b>	<b>1.9000e-003</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0240</b>	<b>0.0240</b>		<b>379.0469</b>	<b>379.0469</b>	<b>7.2700e-003</b>	<b>6.9500e-003</b>	<b>381.2994</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.2219	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
<b>Total</b>		<b>0.0348</b>	<b>0.2969</b>	<b>0.1264</b>	<b>1.9000e-003</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0240</b>	<b>0.0240</b>		<b>379.0469</b>	<b>379.0469</b>	<b>7.2700e-003</b>	<b>6.9500e-003</b>	<b>381.2994</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Cleaning Supplies

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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
Category	lb/day										lb/day					
Mitigated	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180
Unmitigated	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180

**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	0.1543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1485	1.2690	0.5400	8.1000e-003		0.1026	0.1026		0.1026	0.1026	0.0000	1,620.0000	1,620.0000	0.0311	0.0297	1,629.6269
Landscaping	0.2237	0.0856	7.4268	3.9000e-004		0.0411	0.0411		0.0411	0.0411		13.3697	13.3697	0.0129		13.6911
<b>Total</b>	<b>2.3085</b>	<b>1.3546</b>	<b>7.9668</b>	<b>8.4900e-003</b>		<b>0.1437</b>	<b>0.1437</b>		<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>1,633.3697</b>	<b>1,633.3697</b>	<b>0.0439</b>	<b>0.0297</b>	<b>1,643.3180</b>

Mitigated



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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
SubCategory	lb/day										lb/day					
Architectural Coating	0.1543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1485	1.2690	0.5400	8.1000e-003		0.1026	0.1026		0.1026	0.1026	0.0000	1,620.0000	1,620.0000	0.0311	0.0297	1,629.6269
Landscaping	0.2237	0.0856	7.4268	3.9000e-004		0.0411	0.0411		0.0411	0.0411		13.3697	13.3697	0.0129		13.6911
<b>Total</b>	<b>2.3085</b>	<b>1.3546</b>	<b>7.9668</b>	<b>8.4900e-003</b>		<b>0.1437</b>	<b>0.1437</b>		<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>1,633.3697</b>	<b>1,633.3697</b>	<b>0.0439</b>	<b>0.0297</b>	<b>1,643.3180</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Summer

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

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

**Fire Pumps and Emergency Generators**

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

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**





















































Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Signal Hill - Walnut Bluff**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	90.00	Dwelling Unit	2.00	90,000.00	257

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.983	<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 - Walnut Bluff site is 2 acres.
- Construction Phase - Estimated construction schedule - 12 months.
- Grading -
- Vehicle Trips - Daily trips from traffic report.
- Woodstoves - No woodstoves.
- Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 Fugitive Dust requirements.
- Area Mitigation -
- Energy Mitigation -
- Water Mitigation -

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, 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	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	22.00

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

tblConstructionPhase	NumDays	200.00	233.00
tblConstructionPhase	NumDays	4.00	22.00
tblConstructionPhase	NumDays	2.00	5.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	4.50	0.00
tblLandUse	LotAcreage	2.37	2.00
tblVehicleTrips	ST_TR	4.91	6.61
tblVehicleTrips	SU_TR	4.09	5.50
tblVehicleTrips	WD_TR	5.44	7.32
tblWoodstoves	NumberCatalytic	4.50	0.00
tblWoodstoves	NumberNoncatalytic	4.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	28.4953	21.4494	26.8128	0.0493	7.1944	1.0292	7.9374	3.4544	0.9816	4.1379	0.0000	4,687.3816	4,687.3816	0.8111	0.0547	4,723.9606
<b>Maximum</b>	<b>28.4953</b>	<b>21.4494</b>	<b>26.8128</b>	<b>0.0493</b>	<b>7.1944</b>	<b>1.0292</b>	<b>7.9374</b>	<b>3.4544</b>	<b>0.9816</b>	<b>4.1379</b>	<b>0.0000</b>	<b>4,687.3816</b>	<b>4,687.3816</b>	<b>0.8111</b>	<b>0.0547</b>	<b>4,723.9606</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	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	26.9741	20.8376	28.6289	0.0493	2.4597	1.2242	2.9454	1.1649	1.2234	1.6506	0.0000	4,687.3816	4,687.3816	0.8111	0.0547	4,723.9606
Maximum	26.9741	20.8376	28.6289	0.0493	2.4597	1.2242	2.9454	1.1649	1.2234	1.6506	0.0000	4,687.3816	4,687.3816	0.8111	0.0547	4,723.9606

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.34	2.85	-6.77	0.00	65.81	-18.94	62.89	66.28	-24.64	60.11	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180
Energy	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
Mobile	2.0115	2.3016	20.7450	0.0446	4.7392	0.0333	4.7724	1.2623	0.0309	1.2932		4,591.4060	4,591.4060	0.3167	0.1996	4,658.8153

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

Total	4.3547	3.9532	28.8381	0.0550	4.7392	0.2010	4.9401	1.2623	0.1986	1.4609	0.0000	6,603.8226	6,603.8226	0.3678	0.2363	6,683.4327
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**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	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180
Energy	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
Mobile	2.0115	2.3016	20.7450	0.0446	4.7392	0.0333	4.7724	1.2623	0.0309	1.2932		4,591.4060	4,591.4060	0.3167	0.1996	4,658.8153
<b>Total</b>	<b>4.3547</b>	<b>3.9532</b>	<b>28.8381</b>	<b>0.0550</b>	<b>4.7392</b>	<b>0.2010</b>	<b>4.9401</b>	<b>1.2623</b>	<b>0.1986</b>	<b>1.4609</b>	<b>0.0000</b>	<b>6,603.8226</b>	<b>6,603.8226</b>	<b>0.3678</b>	<b>0.2363</b>	<b>6,683.4327</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
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	1/1/2022	1/7/2022	5	5	1
2	Grading	Grading	1/8/2022	2/8/2022	5	22	2

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

3	Building Construction	Building Construction	2/9/2022	12/30/2022	5	233	3
4	Architectural Coating	Architectural Coating	12/1/2022	12/30/2022	5	22	5
5	Paving	Paving	12/19/2022	12/30/2022	5	10	4

**Acres of Grading (Site Preparation Phase): 4.69**

**Acres of Grading (Grading Phase): 22**

**Acres of Paving: 0**

**Residential Indoor: 182,250; Residential Outdoor: 60,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	23	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	65.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Fugitive Dust					6.2641	0.0000	6.2641	3.0039	0.0000	3.0039			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>6.2641</b>	<b>0.6225</b>	<b>6.8866</b>	<b>3.0039</b>	<b>0.5727</b>	<b>3.5766</b>		<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.0296	0.0223	0.2895	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.8107	78.8107	2.2800e-003	2.1400e-003	79.5051
<b>Total</b>	<b>0.0296</b>	<b>0.0223</b>	<b>0.2895</b>	<b>7.7000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>78.8107</b>	<b>78.8107</b>	<b>2.2800e-003</b>	<b>2.1400e-003</b>	<b>79.5051</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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					2.0765	0.0000	2.0765	0.9958	0.0000	0.9958			0.0000			0.0000
Off-Road	0.4212	8.4089	9.8221	0.0172		0.3747	0.3747		0.3747	0.3747	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

<b>Total</b>	0.4212	8.4089	9.8221	0.0172	2.0765	0.3747	2.4513	0.9958	0.3747	1.3705	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
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**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
<b>Category</b>	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	0.0296	0.0223	0.2895	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.8107	78.8107	2.2800e-003	2.1400e-003	79.5051
<b>Total</b>	<b>0.0296</b>	<b>0.0223</b>	<b>0.2895</b>	<b>7.7000e-004</b>	<b>0.0894</b>	<b>5.7000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.3000e-004</b>	<b>0.0242</b>		<b>78.8107</b>	<b>78.8107</b>	<b>2.2800e-003</b>	<b>2.1400e-003</b>	<b>79.5051</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
<b>Category</b>	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.7423</b>	<b>7.8249</b>	<b>3.4247</b>	<b>0.6829</b>	<b>4.1076</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
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	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
<b>Total</b>	<b>0.0371</b>	<b>0.0279</b>	<b>0.3619</b>	<b>9.7000e-004</b>	<b>0.1118</b>	<b>7.2000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>98.5133</b>	<b>98.5133</b>	<b>2.8500e-003</b>	<b>2.6700e-003</b>	<b>99.3813</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
<b>Category</b>	<b>lb/day</b>										<b>lb/day</b>					
Fugitive Dust					2.3479	0.0000	2.3479	1.1353	0.0000	1.1353			0.0000			0.0000
Off-Road	0.5043	10.2150	12.1450	0.0206		0.4850	0.4850		0.4850	0.4850	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

<b>Total</b>	0.5043	10.2150	12.1450	0.0206	2.3479	0.4850	2.8329	1.1353	0.4850	1.6203	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
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**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
<b>Category</b>	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	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
<b>Total</b>	<b>0.0371</b>	<b>0.0279</b>	<b>0.3619</b>	<b>9.7000e-004</b>	<b>0.1118</b>	<b>7.2000e-004</b>	<b>0.1125</b>	<b>0.0296</b>	<b>6.6000e-004</b>	<b>0.0303</b>		<b>98.5133</b>	<b>98.5133</b>	<b>2.8500e-003</b>	<b>2.6700e-003</b>	<b>99.3813</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
<b>Category</b>	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.5100	0.1738	1.9600e-003	0.0641	4.6800e-003	0.0687	0.0184	4.4800e-003	0.0229		210.5407	210.5407	7.0100e-003	0.0304	219.7653
Worker	0.2408	0.1815	2.3522	6.2900e-003	0.7266	4.6600e-003	0.7312	0.1927	4.2900e-003	0.1970		640.3366	640.3366	0.0185	0.0174	645.9787
<b>Total</b>	<b>0.2603</b>	<b>0.6915</b>	<b>2.5259</b>	<b>8.2500e-003</b>	<b>0.7906</b>	<b>9.3400e-003</b>	<b>0.7999</b>	<b>0.2111</b>	<b>8.7700e-003</b>	<b>0.2199</b>		<b>850.8772</b>	<b>850.8772</b>	<b>0.0255</b>	<b>0.0478</b>	<b>865.7440</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	12.0767	13.4786	0.0221		0.7315	0.7315		0.7315	0.7315	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>0.6407</b>	<b>12.0767</b>	<b>13.4786</b>	<b>0.0221</b>		<b>0.7315</b>	<b>0.7315</b>		<b>0.7315</b>	<b>0.7315</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0194	0.5100	0.1738	1.9600e-003	0.0641	4.6800e-003	0.0687	0.0184	4.4800e-003	0.0229		210.5407	210.5407	7.0100e-003	0.0304	219.7653
Worker	0.2408	0.1815	2.3522	6.2900e-003	0.7266	4.6600e-003	0.7312	0.1927	4.2900e-003	0.1970		640.3366	640.3366	0.0185	0.0174	645.9787
<b>Total</b>	<b>0.2603</b>	<b>0.6915</b>	<b>2.5259</b>	<b>8.2500e-003</b>	<b>0.7906</b>	<b>9.3400e-003</b>	<b>0.7999</b>	<b>0.2111</b>	<b>8.7700e-003</b>	<b>0.2199</b>		<b>850.8772</b>	<b>850.8772</b>	<b>0.0255</b>	<b>0.0478</b>	<b>865.7440</b>

**3.5 Architectural Coating - 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					
Archit. Coating	25.5978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>25.8024</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0482	0.0363	0.4704	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		128.0673	128.0673	3.7000e-003	3.4800e-003	129.1958
<b>Total</b>	<b>0.0482</b>	<b>0.0363</b>	<b>0.4704</b>	<b>1.2600e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>128.0673</b>	<b>128.0673</b>	<b>3.7000e-003</b>	<b>3.4800e-003</b>	<b>129.1958</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	25.5978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>25.6573</b>	<b>1.3570</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>0.0951</b>	<b>0.0951</b>		<b>0.0951</b>	<b>0.0951</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0482	0.0363	0.4704	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		128.0673	128.0673	3.7000e-003	3.4800e-003	129.1958
<b>Total</b>	<b>0.0482</b>	<b>0.0363</b>	<b>0.4704</b>	<b>1.2600e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>128.0673</b>	<b>128.0673</b>	<b>3.7000e-003</b>	<b>3.4800e-003</b>	<b>129.1958</b>

**3.6 Paving - 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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6877</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0482	0.0363	0.4704	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		128.0673	128.0673	3.7000e-003	3.4800e-003	129.1958
<b>Total</b>	<b>0.0482</b>	<b>0.0363</b>	<b>0.4704</b>	<b>1.2600e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>128.0673</b>	<b>128.0673</b>	<b>3.7000e-003</b>	<b>3.4800e-003</b>	<b>129.1958</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3195	6.6399	9.8512	0.0135		0.3864	0.3864		0.3864	0.3864	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3195</b>	<b>6.6399</b>	<b>9.8512</b>	<b>0.0135</b>		<b>0.3864</b>	<b>0.3864</b>		<b>0.3864</b>	<b>0.3864</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	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	0.0482	0.0363	0.4704	1.2600e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		128.0673	128.0673	3.7000e-003	3.4800e-003	129.1958
<b>Total</b>	<b>0.0482</b>	<b>0.0363</b>	<b>0.4704</b>	<b>1.2600e-003</b>	<b>0.1453</b>	<b>9.3000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.6000e-004</b>	<b>0.0394</b>		<b>128.0673</b>	<b>128.0673</b>	<b>3.7000e-003</b>	<b>3.4800e-003</b>	<b>129.1958</b>

**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	2.0115	2.3016	20.7450	0.0446	4.7392	0.0333	4.7724	1.2623	0.0309	1.2932		4,591.4060	4,591.4060	0.3167	0.1996	4,658.8153
Unmitigated	2.0115	2.3016	20.7450	0.0446	4.7392	0.0333	4.7724	1.2623	0.0309	1.2932		4,591.4060	4,591.4060	0.3167	0.1996	4,658.8153



Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

Category	lb/day										lb/day					
	NaturalGas Mitigated	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003
NaturalGas Unmitigated	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994

**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					
Apartments Mid Rise	3221.9	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
<b>Total</b>		<b>0.0348</b>	<b>0.2969</b>	<b>0.1264</b>	<b>1.9000e-003</b>		<b>0.0240</b>	<b>0.0240</b>		<b>0.0240</b>	<b>0.0240</b>		<b>379.0469</b>	<b>379.0469</b>	<b>7.2700e-003</b>	<b>6.9500e-003</b>	<b>381.2994</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	lb/day										lb/day					
Apartments Mid Rise	3.2219	0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

Total		0.0348	0.2969	0.1264	1.9000e-003		0.0240	0.0240		0.0240	0.0240		379.0469	379.0469	7.2700e-003	6.9500e-003	381.2994
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**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180
Unmitigated	2.3085	1.3546	7.9668	8.4900e-003		0.1437	0.1437		0.1437	0.1437	0.0000	1,633.3697	1,633.3697	0.0439	0.0297	1,643.3180

**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
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Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

SubCategory	lb/day									lb/day							
Architectural Coating	0.1543					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Consumer Products	1.7820					0.0000	0.0000			0.0000	0.0000			0.0000		0.0000	
Hearth	0.1485	1.2690	0.5400	8.1000e-003		0.1026	0.1026			0.1026	0.1026	0.0000	1,620.0000	1,620.0000	0.0311	0.0297	1,629.6269
Landscaping	0.2237	0.0856	7.4268	3.9000e-004		0.0411	0.0411			0.0411	0.0411		13.3697	13.3697	0.0129		13.6911
<b>Total</b>	<b>2.3085</b>	<b>1.3546</b>	<b>7.9668</b>	<b>8.4900e-003</b>		<b>0.1437</b>	<b>0.1437</b>			<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>1,633.3697</b>	<b>1,633.3697</b>	<b>0.0439</b>	<b>0.0297</b>	<b>1,643.3180</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.1543						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Consumer Products	1.7820						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Hearth	0.1485	1.2690	0.5400	8.1000e-003		0.1026	0.1026			0.1026	0.1026	0.0000	1,620.0000	1,620.0000	0.0311	0.0297	1,629.6269
Landscaping	0.2237	0.0856	7.4268	3.9000e-004		0.0411	0.0411			0.0411	0.0411		13.3697	13.3697	0.0129		13.6911
<b>Total</b>	<b>2.3085</b>	<b>1.3546</b>	<b>7.9668</b>	<b>8.4900e-003</b>		<b>0.1437</b>	<b>0.1437</b>			<b>0.1437</b>	<b>0.1437</b>	<b>0.0000</b>	<b>1,633.3697</b>	<b>1,633.3697</b>	<b>0.0439</b>	<b>0.0297</b>	<b>1,643.3180</b>

**7.0 Water Detail**

Signal Hill - Walnut Bluff - Los Angeles-South Coast County, Winter

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

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**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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