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**APPENDIX B**

**AIR QUALITY AND GREENHOUSE GAS EMISSION DATA**

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7145\_San Dimas MCTA 20-0005 - Los Angeles-South Coast County, Annual

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

**7145\_San Dimas MCTA 20-0005  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	90.10	1,233,036.00	103

**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 - Average lot size = 109,021sq ft; 36 lots= 3,924,756sq ft= 90.1 acres

Average available building area= 34,251sq feet; 36 lots= 1,233,036 sqft

Construction Phase -

Off-road Equipment - only grading is considered

Off-road Equipment -

Trips and VMT - only grading is considered

On-road Fugitive Dust - only grading is considered

Demolition -

Grading - only grading is considered

Architectural Coating - only grading is considered

Woodstoves -

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Area Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	MaterialImported	0.00	36,000.00
tblLandUse	LandUseSquareFeet	64,800.00	1,233,036.00
tblLandUse	LotAcreage	11.69	90.10

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	1.3490	1.3490
2	4-1-2023	6-30-2023	1.3584	1.3584
3	7-1-2023	9-30-2023	0.5225	0.5225
		Highest	1.3584	1.3584

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.9704	0.0136	0.6000	6.0000e-004		0.0364	0.0364		0.0364	0.0364	3.8239	7.9546	11.7785	0.0120	2.6000e-004	12.1555
Energy	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	99.1413	99.1413	5.1700e-003	1.4100e-003	99.6911
Mobile	0.1783	0.2052	1.8638	4.0700e-003	0.4311	2.9900e-003	0.4341	0.1150	2.7700e-003	0.1178	0.0000	382.9447	382.9447	0.0258	0.0163	388.4549
Waste						0.0000	0.0000		0.0000	0.0000	8.5723	0.0000	8.5723	0.5066	0.0000	21.2375
Water						0.0000	0.0000		0.0000	0.0000	0.7441	8.3299	9.0740	0.0771	1.8900e-003	11.5655
<b>Total</b>	<b>5.1537</b>	<b>0.2611</b>	<b>2.4818</b>	<b>4.9400e-003</b>	<b>0.4311</b>	<b>0.0428</b>	<b>0.4739</b>	<b>0.1150</b>	<b>0.0426</b>	<b>0.1576</b>	<b>13.1403</b>	<b>498.3706</b>	<b>511.5109</b>	<b>0.6267</b>	<b>0.0199</b>	<b>533.1046</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.9704	0.0136	0.6000	6.0000e-004		0.0364	0.0364		0.0364	0.0364	3.8239	7.9546	11.7785	0.0120	2.6000e-004	12.1555
Energy	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	99.1413	99.1413	5.1700e-003	1.4100e-003	99.6911
Mobile	0.1783	0.2052	1.8638	4.0700e-003	0.4311	2.9900e-003	0.4341	0.1150	2.7700e-003	0.1178	0.0000	382.9447	382.9447	0.0258	0.0163	388.4549
Waste						0.0000	0.0000		0.0000	0.0000	8.5723	0.0000	8.5723	0.5066	0.0000	21.2375
Water						0.0000	0.0000		0.0000	0.0000	0.7441	8.3299	9.0740	0.0771	1.8900e-003	11.5655
<b>Total</b>	<b>5.1537</b>	<b>0.2611</b>	<b>2.4818</b>	<b>4.9400e-003</b>	<b>0.4311</b>	<b>0.0428</b>	<b>0.4739</b>	<b>0.1150</b>	<b>0.0426</b>	<b>0.1576</b>	<b>13.1403</b>	<b>498.3706</b>	<b>511.5109</b>	<b>0.6267</b>	<b>0.0199</b>	<b>533.1046</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	8/4/2023	5	155	

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

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**Acres of Grading (Grading Phase): 465**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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

**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
Grading	8	20.00	0.00	4,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7153	0.0000	0.7153	0.2835	0.0000	0.2835	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2574	2.6750	2.1740	4.8100e-003		0.1104	0.1104		0.1016	0.1016	0.0000	422.6479	422.6479	0.1367	0.0000	426.0652
<b>Total</b>	<b>0.2574</b>	<b>2.6750</b>	<b>2.1740</b>	<b>4.8100e-003</b>	<b>0.7153</b>	<b>0.1104</b>	<b>0.8257</b>	<b>0.2835</b>	<b>0.1016</b>	<b>0.3850</b>	<b>0.0000</b>	<b>422.6479</b>	<b>422.6479</b>	<b>0.1367</b>	<b>0.0000</b>	<b>426.0652</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7500e-003	0.3094	0.0788	1.3200e-003	0.0387	1.8500e-003	0.0406	0.0106	1.7700e-003	0.0124	0.0000	131.2356	131.2356	7.2200e-003	0.0208	137.6268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	3.9100e-003	0.0530	1.5000e-004	0.0170	1.0000e-004	0.0171	4.5100e-003	1.0000e-004	4.6100e-003	0.0000	13.6892	13.6892	3.6000e-004	3.5000e-004	13.8031
<b>Total</b>	<b>9.6700e-003</b>	<b>0.3133</b>	<b>0.1317</b>	<b>1.4700e-003</b>	<b>0.0557</b>	<b>1.9500e-003</b>	<b>0.0577</b>	<b>0.0151</b>	<b>1.8700e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>144.9248</b>	<b>144.9248</b>	<b>7.5800e-003</b>	<b>0.0212</b>	<b>151.4299</b>



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**3.2 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3219	0.0000	0.3219	0.1276	0.0000	0.1276	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2574	2.6750	2.1740	4.8100e-003		0.1104	0.1104		0.1016	0.1016	0.0000	422.6474	422.6474	0.1367	0.0000	426.0647
<b>Total</b>	<b>0.2574</b>	<b>2.6750</b>	<b>2.1740</b>	<b>4.8100e-003</b>	<b>0.3219</b>	<b>0.1104</b>	<b>0.4323</b>	<b>0.1276</b>	<b>0.1016</b>	<b>0.2291</b>	<b>0.0000</b>	<b>422.6474</b>	<b>422.6474</b>	<b>0.1367</b>	<b>0.0000</b>	<b>426.0647</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7500e-003	0.3094	0.0788	1.3200e-003	0.0387	1.8500e-003	0.0406	0.0106	1.7700e-003	0.0124	0.0000	131.2356	131.2356	7.2200e-003	0.0208	137.6268
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9200e-003	3.9100e-003	0.0530	1.5000e-004	0.0170	1.0000e-004	0.0171	4.5100e-003	1.0000e-004	4.6100e-003	0.0000	13.6892	13.6892	3.6000e-004	3.5000e-004	13.8031
<b>Total</b>	<b>9.6700e-003</b>	<b>0.3133</b>	<b>0.1317</b>	<b>1.4700e-003</b>	<b>0.0557</b>	<b>1.9500e-003</b>	<b>0.0577</b>	<b>0.0151</b>	<b>1.8700e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>144.9248</b>	<b>144.9248</b>	<b>7.5800e-003</b>	<b>0.0212</b>	<b>151.4299</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1783	0.2052	1.8638	4.0700e-003	0.4311	2.9900e-003	0.4341	0.1150	2.7700e-003	0.1178	0.0000	382.9447	382.9447	0.0258	0.0163	388.4549
Unmitigated	0.1783	0.2052	1.8638	4.0700e-003	0.4311	2.9900e-003	0.4341	0.1150	2.7700e-003	0.1178	0.0000	382.9447	382.9447	0.0258	0.0163	388.4549

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	1,147,402	1,147,402
Total	339.84	343.44	307.80	1,147,402	1,147,402

**4.3 Trip Type Information**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	50.1685	50.1685	4.2300e-003	5.1000e-004	50.4274
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	50.1685	50.1685	4.2300e-003	5.1000e-004	50.4274
NaturalGas Mitigated	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	48.9728	48.9728	9.4000e-004	9.0000e-004	49.2638
NaturalGas Unmitigated	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	48.9728	48.9728	9.4000e-004	9.0000e-004	49.2638

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	917715	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	48.9728	48.9728	9.4000e-004	9.0000e-004	49.2638
<b>Total</b>		<b>4.9500e-003</b>	<b>0.0423</b>	<b>0.0180</b>	<b>2.7000e-004</b>		<b>3.4200e-003</b>	<b>3.4200e-003</b>		<b>3.4200e-003</b>	<b>3.4200e-003</b>	<b>0.0000</b>	<b>48.9728</b>	<b>48.9728</b>	<b>9.4000e-004</b>	<b>9.0000e-004</b>	<b>49.2638</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	917715	4.9500e-003	0.0423	0.0180	2.7000e-004		3.4200e-003	3.4200e-003		3.4200e-003	3.4200e-003	0.0000	48.9728	48.9728	9.4000e-004	9.0000e-004	49.2638
<b>Total</b>		<b>4.9500e-003</b>	<b>0.0423</b>	<b>0.0180</b>	<b>2.7000e-004</b>		<b>3.4200e-003</b>	<b>3.4200e-003</b>		<b>3.4200e-003</b>	<b>3.4200e-003</b>	<b>0.0000</b>	<b>48.9728</b>	<b>48.9728</b>	<b>9.4000e-004</b>	<b>9.0000e-004</b>	<b>49.2638</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	282886	50.1685	4.2300e-003	5.1000e-004	50.4274
<b>Total</b>		<b>50.1685</b>	<b>4.2300e-003</b>	<b>5.1000e-004</b>	<b>50.4274</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	282886	50.1685	4.2300e-003	5.1000e-004	50.4274
<b>Total</b>		<b>50.1685</b>	<b>4.2300e-003</b>	<b>5.1000e-004</b>	<b>50.4274</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.9704	0.0136	0.6000	6.0000e-004		0.0364	0.0364		0.0364	0.0364	3.8239	7.9546	11.7785	0.0120	2.6000e-004	12.1555
Unmitigated	4.9704	0.0136	0.6000	6.0000e-004		0.0364	0.0364		0.0364	0.0364	3.8239	7.9546	11.7785	0.0120	2.6000e-004	12.1555

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.4556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1179	9.3400e-003	0.2289	5.8000e-004		0.0344	0.0344		0.0344	0.0344	3.8239	7.3482	11.1721	0.0114	2.6000e-004	11.5345
Landscaping	0.0112	4.2800e-003	0.3711	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6064	0.6064	5.8000e-004	0.0000	0.6210
<b>Total</b>	<b>4.9704</b>	<b>0.0136</b>	<b>0.6000</b>	<b>6.0000e-004</b>		<b>0.0364</b>	<b>0.0364</b>		<b>0.0364</b>	<b>0.0364</b>	<b>3.8239</b>	<b>7.9546</b>	<b>11.7785</b>	<b>0.0120</b>	<b>2.6000e-004</b>	<b>12.1555</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3858					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.4556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1179	9.3400e-003	0.2289	5.8000e-004		0.0344	0.0344		0.0344	0.0344	3.8239	7.3482	11.1721	0.0114	2.6000e-004	11.5345
Landscaping	0.0112	4.2800e-003	0.3711	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6064	0.6064	5.8000e-004	0.0000	0.6210
<b>Total</b>	<b>4.9704</b>	<b>0.0136</b>	<b>0.6000</b>	<b>6.0000e-004</b>		<b>0.0364</b>	<b>0.0364</b>		<b>0.0364</b>	<b>0.0364</b>	<b>3.8239</b>	<b>7.9546</b>	<b>11.7785</b>	<b>0.0120</b>	<b>2.6000e-004</b>	<b>12.1555</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.0740	0.0771	1.8900e-003	11.5655
Unmitigated	9.0740	0.0771	1.8900e-003	11.5655

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.34554 / 1.47871	9.0740	0.0771	1.8900e-003	11.5655
<b>Total</b>		<b>9.0740</b>	<b>0.0771</b>	<b>1.8900e-003</b>	<b>11.5655</b>



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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.34554 / 1.47871	9.0740	0.0771	1.8900e-003	11.5655
<b>Total</b>		<b>9.0740</b>	<b>0.0771</b>	<b>1.8900e-003</b>	<b>11.5655</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.5723	0.5066	0.0000	21.2375
Unmitigated	8.5723	0.5066	0.0000	21.2375

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**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	42.23	8.5723	0.5066	0.0000	21.2375
<b>Total</b>		<b>8.5723</b>	<b>0.5066</b>	<b>0.0000</b>	<b>21.2375</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	42.23	8.5723	0.5066	0.0000	21.2375
<b>Total</b>		<b>8.5723</b>	<b>0.5066</b>	<b>0.0000</b>	<b>21.2375</b>

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	90.10	1,233,036.00	103

**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 - Average lot size = 109,021sq ft; 36 lots= 3,924,756sq ft= 90.1 acres  
 Average available building area= 34,251sq feet; 36 lots= 1,233,036 sqft

Construction Phase -

Off-road Equipment - only grading is considered

Off-road Equipment -

Trips and VMT - only grading is considered

On-road Fugitive Dust - only grading is considered

Demolition -

Grading - only grading is considered

Architectural Coating - only grading is considered

Woodstoves -

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

Area Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	MaterialImported	0.00	36,000.00
tblLandUse	LandUseSquareFeet	64,800.00	1,233,036.00
tblLandUse	LotAcreage	11.69	90.10

**2.0 Emissions Summary**

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

**2.2 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	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Energy	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
Mobile	1.0368	1.0529	10.6187	0.0236	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,451.4128	2,451.4128	0.1563	0.0963	2,484.0122
<b>Total</b>	<b>37.1144</b>	<b>2.0658</b>	<b>31.9939</b>	<b>0.0720</b>	<b>2.4708</b>	<b>2.8020</b>	<b>5.2728</b>	<b>0.6582</b>	<b>2.8008</b>	<b>3.4589</b>	<b>337.2091</b>	<b>3,400.5592</b>	<b>3,737.7682</b>	<b>1.1728</b>	<b>0.1246</b>	<b>3,804.2147</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	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Energy	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
Mobile	1.0368	1.0529	10.6187	0.0236	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,451.4128	2,451.4128	0.1563	0.0963	2,484.0122
<b>Total</b>	<b>37.1144</b>	<b>2.0658</b>	<b>31.9939</b>	<b>0.0720</b>	<b>2.4708</b>	<b>2.8020</b>	<b>5.2728</b>	<b>0.6582</b>	<b>2.8008</b>	<b>3.4589</b>	<b>337.2091</b>	<b>3,400.5592</b>	<b>3,737.7682</b>	<b>1.1728</b>	<b>0.1246</b>	<b>3,804.2147</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Grading	Grading	1/1/2023	8/4/2023	5	155	

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

**Acres of Grading (Grading Phase): 465**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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

**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
Grading	8	20.00	0.00	4,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT



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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2299	0.0000	9.2299	3.6577	0.0000	3.6577			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.477 7	6,011.477 7	1.9442		6,060.083 6
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2299</b>	<b>1.4245</b>	<b>10.6543</b>	<b>3.6577</b>	<b>1.3105</b>	<b>4.9683</b>		<b>6,011.477 7</b>	<b>6,011.477 7</b>	<b>1.9442</b>		<b>6,060.083 6</b>

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

**3.2 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0630	3.7884	1.0112	0.0170	0.5082	0.0239	0.5321	0.1393	0.0229	0.1622		1,865.7874	1,865.7874	0.1028	0.2963	1,956.6508
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	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
<b>Total</b>	<b>0.1270</b>	<b>3.8331</b>	<b>1.7359</b>	<b>0.0190</b>	<b>0.7317</b>	<b>0.0253</b>	<b>0.7570</b>	<b>0.1986</b>	<b>0.0241</b>	<b>0.2227</b>		<b>2,068.3100</b>	<b>2,068.3100</b>	<b>0.1079</b>	<b>0.3009</b>	<b>2,160.6750</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					4.1534	0.0000	4.1534	1.6460	0.0000	1.6460			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>4.1534</b>	<b>1.4245</b>	<b>5.5779</b>	<b>1.6460</b>	<b>1.3105</b>	<b>2.9565</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

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**3.2 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0630	3.7884	1.0112	0.0170	0.5082	0.0239	0.5321	0.1393	0.0229	0.1622		1,865.7874	1,865.7874	0.1028	0.2963	1,956.6508
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	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
<b>Total</b>	<b>0.1270</b>	<b>3.8331</b>	<b>1.7359</b>	<b>0.0190</b>	<b>0.7317</b>	<b>0.0253</b>	<b>0.7570</b>	<b>0.1986</b>	<b>0.0241</b>	<b>0.2227</b>		<b>2,068.3100</b>	<b>2,068.3100</b>	<b>0.1079</b>	<b>0.3009</b>	<b>2,160.6750</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0368	1.0529	10.6187	0.0236	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,451.4128	2,451.4128	0.1563	0.0963	2,484.0122
Unmitigated	1.0368	1.0529	10.6187	0.0236	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,451.4128	2,451.4128	0.1563	0.0963	2,484.0122

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	1,147,402	1,147,402
Total	339.84	343.44	307.80	1,147,402	1,147,402

**4.3 Trip Type Information**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
NaturalGas Unmitigated	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2514.29	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
<b>Total</b>		<b>0.0271</b>	<b>0.2317</b>	<b>0.0986</b>	<b>1.4800e-003</b>		<b>0.0187</b>	<b>0.0187</b>		<b>0.0187</b>	<b>0.0187</b>		<b>295.7985</b>	<b>295.7985</b>	<b>5.6700e-003</b>	<b>5.4200e-003</b>	<b>297.5563</b>

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.51429	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
<b>Total</b>		<b>0.0271</b>	<b>0.2317</b>	<b>0.0986</b>	<b>1.4800e-003</b>		<b>0.0187</b>	<b>0.0187</b>		<b>0.0187</b>	<b>0.0187</b>		<b>295.7985</b>	<b>295.7985</b>	<b>5.6700e-003</b>	<b>5.4200e-003</b>	<b>297.5563</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Unmitigated	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462

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

**6.2 Area by SubCategory**

**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	2.1138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.4141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.4333	0.7469	18.3079	0.0467		2.7500	2.7500		2.7500	2.7500	337.2091	648.0000	985.2091	1.0056	0.0229	1,017.1701
Landscaping	0.0893	0.0342	2.9688	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3479	5.3479	5.1300e-003		5.4762
<b>Total</b>	<b>36.0505</b>	<b>0.7812</b>	<b>21.2767</b>	<b>0.0469</b>		<b>2.7664</b>	<b>2.7664</b>		<b>2.7664</b>	<b>2.7664</b>	<b>337.2091</b>	<b>653.3479</b>	<b>990.5569</b>	<b>1.0108</b>	<b>0.0229</b>	<b>1,022.6462</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.1138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.4141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.4333	0.7469	18.3079	0.0467		2.7500	2.7500		2.7500	2.7500	337.2091	648.0000	985.2091	1.0056	0.0229	1,017.1701
Landscaping	0.0893	0.0342	2.9688	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3479	5.3479	5.1300e-003		5.4762
<b>Total</b>	<b>36.0505</b>	<b>0.7812</b>	<b>21.2767</b>	<b>0.0469</b>		<b>2.7664</b>	<b>2.7664</b>		<b>2.7664</b>	<b>2.7664</b>	<b>337.2091</b>	<b>653.3479</b>	<b>990.5569</b>	<b>1.0108</b>	<b>0.0229</b>	<b>1,022.6462</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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

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

**7145\_San Dimas MCTA 20-0005  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	36.00	Dwelling Unit	90.10	1,233,036.00	103

**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 - Average lot size = 109,021sq ft; 36 lots= 3,924,756sq ft= 90.1 acres  
Average available building area= 34,251sq feet; 36 lots= 1,233,036 sqft

Construction Phase -

Off-road Equipment - only grading is considered

Off-road Equipment -

Trips and VMT - only grading is considered

On-road Fugitive Dust - only grading is considered

Demolition -

Grading - only grading is considered

Architectural Coating - only grading is considered

Woodstoves -

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

Area Coating -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblGrading	MaterialImported	0.00	36,000.00
tblLandUse	LandUseSquareFeet	64,800.00	1,233,036.00
tblLandUse	LotAcreage	11.69	90.10

**2.0 Emissions Summary**

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

**2.2 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	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Energy	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
Mobile	1.0187	1.1370	10.3796	0.0226	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,347.1947	2,347.1947	0.1606	0.1005	2,381.1633
<b>Total</b>	<b>37.0963</b>	<b>2.1499</b>	<b>31.7548</b>	<b>0.0710</b>	<b>2.4708</b>	<b>2.8020</b>	<b>5.2728</b>	<b>0.6582</b>	<b>2.8008</b>	<b>3.4589</b>	<b>337.2091</b>	<b>3,296.3411</b>	<b>3,633.5502</b>	<b>1.1770</b>	<b>0.1288</b>	<b>3,701.3658</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	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Energy	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
Mobile	1.0187	1.1370	10.3796	0.0226	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,347.1947	2,347.1947	0.1606	0.1005	2,381.1633
<b>Total</b>	<b>37.0963</b>	<b>2.1499</b>	<b>31.7548</b>	<b>0.0710</b>	<b>2.4708</b>	<b>2.8020</b>	<b>5.2728</b>	<b>0.6582</b>	<b>2.8008</b>	<b>3.4589</b>	<b>337.2091</b>	<b>3,296.3411</b>	<b>3,633.5502</b>	<b>1.1770</b>	<b>0.1288</b>	<b>3,701.3658</b>

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Grading	Grading	1/1/2023	8/4/2023	5	155	

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

**Acres of Grading (Grading Phase): 465**

**Acres of Paving: 0**

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

**OffRoad Equipment**

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

**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
Grading	8	20.00	0.00	4,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2299	0.0000	9.2299	3.6577	0.0000	3.6577			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.477 7	6,011.477 7	1.9442		6,060.083 6
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2299</b>	<b>1.4245</b>	<b>10.6543</b>	<b>3.6577</b>	<b>1.3105</b>	<b>4.9683</b>		<b>6,011.477 7</b>	<b>6,011.477 7</b>	<b>1.9442</b>		<b>6,060.083 6</b>

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

**3.2 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0589	3.9554	1.0251	0.0170	0.5082	0.0240	0.5322	0.1393	0.0229	0.1623		1,867.754 0	1,867.754 0	0.1026	0.2966	1,958.707 4
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	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
<b>Total</b>	<b>0.1277</b>	<b>4.0048</b>	<b>1.6912</b>	<b>0.0189</b>	<b>0.7317</b>	<b>0.0253</b>	<b>0.7571</b>	<b>0.1986</b>	<b>0.0242</b>	<b>0.2228</b>		<b>2,059.599 4</b>	<b>2,059.599 4</b>	<b>0.1077</b>	<b>0.3015</b>	<b>2,152.149 8</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					4.1534	0.0000	4.1534	1.6460	0.0000	1.6460			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>4.1534</b>	<b>1.4245</b>	<b>5.5779</b>	<b>1.6460</b>	<b>1.3105</b>	<b>2.9565</b>	<b>0.0000</b>	<b>6,011.477 7</b>	<b>6,011.477 7</b>	<b>1.9442</b>		<b>6,060.083 6</b>



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

**3.2 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0589	3.9554	1.0251	0.0170	0.5082	0.0240	0.5322	0.1393	0.0229	0.1623		1,867.754 0	1,867.754 0	0.1026	0.2966	1,958.707 4
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	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
<b>Total</b>	<b>0.1277</b>	<b>4.0048</b>	<b>1.6912</b>	<b>0.0189</b>	<b>0.7317</b>	<b>0.0253</b>	<b>0.7571</b>	<b>0.1986</b>	<b>0.0242</b>	<b>0.2228</b>		<b>2,059.599 4</b>	<b>2,059.599 4</b>	<b>0.1077</b>	<b>0.3015</b>	<b>2,152.149 8</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0187	1.1370	10.3796	0.0226	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,347.1947	2,347.1947	0.1606	0.1005	2,381.1633
Unmitigated	1.0187	1.1370	10.3796	0.0226	2.4708	0.0168	2.4876	0.6582	0.0156	0.6738		2,347.1947	2,347.1947	0.1606	0.1005	2,381.1633

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	339.84	343.44	307.80	1,147,402	1,147,402
Total	339.84	343.44	307.80	1,147,402	1,147,402

**4.3 Trip Type Information**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
NaturalGas Unmitigated	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2514.29	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
<b>Total</b>		<b>0.0271</b>	<b>0.2317</b>	<b>0.0986</b>	<b>1.4800e-003</b>		<b>0.0187</b>	<b>0.0187</b>		<b>0.0187</b>	<b>0.0187</b>		<b>295.7985</b>	<b>295.7985</b>	<b>5.6700e-003</b>	<b>5.4200e-003</b>	<b>297.5563</b>

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.51429	0.0271	0.2317	0.0986	1.4800e-003		0.0187	0.0187		0.0187	0.0187		295.7985	295.7985	5.6700e-003	5.4200e-003	297.5563
<b>Total</b>		<b>0.0271</b>	<b>0.2317</b>	<b>0.0986</b>	<b>1.4800e-003</b>		<b>0.0187</b>	<b>0.0187</b>		<b>0.0187</b>	<b>0.0187</b>		<b>295.7985</b>	<b>295.7985</b>	<b>5.6700e-003</b>	<b>5.4200e-003</b>	<b>297.5563</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462
Unmitigated	36.0505	0.7812	21.2767	0.0469		2.7664	2.7664		2.7664	2.7664	337.2091	653.3479	990.5570	1.0108	0.0229	1,022.6462

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

**6.2 Area by SubCategory**

**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	2.1138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.4141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.4333	0.7469	18.3079	0.0467		2.7500	2.7500		2.7500	2.7500	337.2091	648.0000	985.2091	1.0056	0.0229	1,017.1701
Landscaping	0.0893	0.0342	2.9688	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3479	5.3479	5.1300e-003		5.4762
<b>Total</b>	<b>36.0505</b>	<b>0.7812</b>	<b>21.2767</b>	<b>0.0469</b>		<b>2.7664</b>	<b>2.7664</b>		<b>2.7664</b>	<b>2.7664</b>	<b>337.2091</b>	<b>653.3479</b>	<b>990.5569</b>	<b>1.0108</b>	<b>0.0229</b>	<b>1,022.6462</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.1138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.4141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.4333	0.7469	18.3079	0.0467		2.7500	2.7500		2.7500	2.7500	337.2091	648.0000	985.2091	1.0056	0.0229	1,017.1701
Landscaping	0.0893	0.0342	2.9688	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3479	5.3479	5.1300e-003		5.4762
<b>Total</b>	<b>36.0505</b>	<b>0.7812</b>	<b>21.2767</b>	<b>0.0469</b>		<b>2.7664</b>	<b>2.7664</b>		<b>2.7664</b>	<b>2.7664</b>	<b>337.2091</b>	<b>653.3479</b>	<b>990.5569</b>	<b>1.0108</b>	<b>0.0229</b>	<b>1,022.6462</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**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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