

Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

**Annexation GPA Loma Linda: City GPA  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	20.00	1000sqft	0.46	20,000.00	0
Single Family Housing	89.00	Dwelling Unit	44.64	160,200.00	255
Fast Food Restaurant with Drive Thru	6.00	1000sqft	0.14	6,000.00	0
Other Non-Asphalt Surfaces	71.60	1000sqft	1.64	71,600.00	0
Other Asphalt Surfaces	11.10	Acre	11.10	483,516.00	0
Parking Lot	8.70	Acre	8.70	378,972.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.98	<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 - Per Site Use

Construction Phase -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	28.90	44.64

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**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.4191	3.6337	3.7421	9.5900e-003	1.2315	0.1456	1.3771	0.4926	0.1348	0.6274	0.0000	863.7354	863.7354	0.1585	0.0293	876.4175
2024	0.4005	2.7062	4.1521	0.0125	0.7599	0.0890	0.8490	0.2050	0.0838	0.2888	0.0000	1,145.5683	1,145.5683	0.0930	0.0678	1,168.0888
2025	0.3723	2.5497	3.9967	0.0122	0.7570	0.0773	0.8344	0.2042	0.0728	0.2770	0.0000	1,118.1824	1,118.1824	0.0908	0.0656	1,139.9892
2026	0.3610	2.5322	3.8893	0.0120	0.7570	0.0772	0.8342	0.2042	0.0726	0.2768	0.0000	1,096.7889	1,096.7889	0.0896	0.0638	1,118.0255
2027	0.3277	2.2815	3.4860	0.0103	0.6330	0.0732	0.7062	0.1708	0.0687	0.2395	0.0000	941.5188	941.5188	0.0878	0.0516	959.0975
2028	0.7916	0.1813	0.3753	7.4000e-004	0.0383	8.5600e-003	0.0469	0.0102	8.0300e-003	0.0182	0.0000	65.9730	65.9730	0.0110	5.9000e-004	66.4251
<b>Maximum</b>	<b>0.7916</b>	<b>3.6337</b>	<b>4.1521</b>	<b>0.0125</b>	<b>1.2315</b>	<b>0.1456</b>	<b>1.3771</b>	<b>0.4926</b>	<b>0.1348</b>	<b>0.6274</b>	<b>0.0000</b>	<b>1,145.5683</b>	<b>1,145.5683</b>	<b>0.1585</b>	<b>0.0678</b>	<b>1,168.0888</b>

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**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.4191	3.6337	3.7421	9.5900e-003	0.7369	0.1456	0.8825	0.2709	0.1348	0.4057	0.0000	863.7348	863.7348	0.1585	0.0293	876.4170
2024	0.4005	2.7062	4.1521	0.0125	0.7599	0.0890	0.8490	0.2050	0.0838	0.2888	0.0000	1,145.5679	1,145.5679	0.0930	0.0678	1,168.0884
2025	0.3723	2.5497	3.9967	0.0122	0.7570	0.0773	0.8344	0.2042	0.0728	0.2770	0.0000	1,118.1821	1,118.1821	0.0908	0.0656	1,139.9888
2026	0.3610	2.5322	3.8893	0.0120	0.7570	0.0772	0.8342	0.2042	0.0726	0.2768	0.0000	1,096.7886	1,096.7886	0.0896	0.0638	1,118.0252
2027	0.3277	2.2815	3.4860	0.0103	0.6330	0.0732	0.7062	0.1708	0.0687	0.2395	0.0000	941.5184	941.5184	0.0878	0.0516	959.0971
2028	0.7916	0.1813	0.3753	7.4000e-004	0.0383	8.5600e-003	0.0469	0.0102	8.0300e-003	0.0182	0.0000	65.9730	65.9730	0.0110	5.9000e-004	66.4251
<b>Maximum</b>	<b>0.7916</b>	<b>3.6337</b>	<b>4.1521</b>	<b>0.0125</b>	<b>0.7599</b>	<b>0.1456</b>	<b>0.8825</b>	<b>0.2709</b>	<b>0.1348</b>	<b>0.4057</b>	<b>0.0000</b>	<b>1,145.5679</b>	<b>1,145.5679</b>	<b>0.1585</b>	<b>0.0678</b>	<b>1,168.0884</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>11.84</b>	<b>0.00</b>	<b>10.64</b>	<b>17.22</b>	<b>0.00</b>	<b>12.83</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2023	4-2-2023	1.0669	1.0669
2	4-3-2023	7-2-2023	1.2338	1.2338
3	7-3-2023	10-2-2023	0.9497	0.9497
4	10-3-2023	1-2-2024	0.8215	0.8215
5	1-3-2024	4-2-2024	0.7734	0.7734

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6	4-3-2024	7-2-2024	0.7635	0.7635
7	7-3-2024	10-2-2024	0.7721	0.7721
8	10-3-2024	1-2-2025	0.7812	0.7812
9	1-3-2025	4-2-2025	0.7223	0.7223
10	4-3-2025	7-2-2025	0.7205	0.7205
11	7-3-2025	10-2-2025	0.7286	0.7286
12	10-3-2025	1-2-2026	0.7384	0.7384
13	1-3-2026	4-2-2026	0.7152	0.7152
14	4-3-2026	7-2-2026	0.7133	0.7133
15	7-3-2026	10-2-2026	0.7213	0.7213
16	10-3-2026	1-2-2027	0.7312	0.7312
17	1-3-2027	4-2-2027	0.7087	0.7087
18	4-3-2027	7-2-2027	0.7067	0.7067
19	7-3-2027	10-2-2027	0.7147	0.7147
20	10-3-2027	1-2-2028	0.4634	0.4634
21	1-3-2028	4-2-2028	0.5298	0.5298
22	4-3-2028	7-2-2028	0.4422	0.4422
		Highest	1.2338	1.2338

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**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	1.1276	0.0337	1.4847	1.4900e-003		0.0901	0.0901		0.0901	0.0901	9.4535	19.6685	29.1220	0.0296	6.4000e-004	30.0542
Energy	0.0228	0.1996	0.1196	1.2400e-003		0.0157	0.0157		0.0157	0.0157	0.0000	539.5440	539.5440	0.0238	6.4900e-003	542.0743
Mobile	1.6841	2.1406	13.8578	0.0270	2.7549	0.0226	2.7775	0.7359	0.0212	0.7570	0.0000	2,498.4710	2,498.4710	0.1838	0.1461	2,546.6131
Waste						0.0000	0.0000		0.0000	0.0000	79.0975	0.0000	79.0975	4.6745	0.0000	195.9606
Water						0.0000	0.0000		0.0000	0.0000	3.2136	43.2205	46.4341	0.3328	8.1200e-003	57.1723
<b>Total</b>	<b>2.8345</b>	<b>2.3738</b>	<b>15.4620</b>	<b>0.0297</b>	<b>2.7549</b>	<b>0.1284</b>	<b>2.8833</b>	<b>0.7359</b>	<b>0.1270</b>	<b>0.8628</b>	<b>91.7646</b>	<b>3,100.9040</b>	<b>3,192.6686</b>	<b>5.2446</b>	<b>0.1614</b>	<b>3,371.8745</b>

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**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	1.1276	0.0337	1.4847	1.4900e-003		0.0901	0.0901		0.0901	0.0901	9.4535	19.6685	29.1220	0.0296	6.4000e-004	30.0542
Energy	0.0228	0.1996	0.1196	1.2400e-003		0.0157	0.0157		0.0157	0.0157	0.0000	539.5440	539.5440	0.0238	6.4900e-003	542.0743
Mobile	1.6841	2.1406	13.8578	0.0270	2.7549	0.0226	2.7775	0.7359	0.0212	0.7570	0.0000	2,498.4710	2,498.4710	0.1838	0.1461	2,546.6131
Waste						0.0000	0.0000		0.0000	0.0000	79.0975	0.0000	79.0975	4.6745	0.0000	195.9606
Water						0.0000	0.0000		0.0000	0.0000	3.2136	43.2205	46.4341	0.3328	8.1200e-003	57.1723
<b>Total</b>	<b>2.8345</b>	<b>2.3738</b>	<b>15.4620</b>	<b>0.0297</b>	<b>2.7549</b>	<b>0.1284</b>	<b>2.8833</b>	<b>0.7359</b>	<b>0.1270</b>	<b>0.8628</b>	<b>91.7646</b>	<b>3,100.9040</b>	<b>3,192.6686</b>	<b>5.2446</b>	<b>0.1614</b>	<b>3,371.8745</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/3/2023	2/27/2023	5	40	
2	Grading	Grading	2/28/2023	7/31/2023	5	110	
3	Building Construction	Building Construction	8/1/2023	11/1/2027	5	1110	

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4	Paving	Paving	11/2/2027	2/14/2028	5	75
5	Architectural Coating	Architectural Coating	2/15/2028	5/29/2028	5	75

**Acres of Grading (Site Preparation Phase): 60**

**Acres of Grading (Grading Phase): 330**

**Acres of Paving: 21.44**

**Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 56,045 (Architectural Coating – sqft)**

**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	2	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
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	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**

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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	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	433.00	167.00	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	87.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3931	0.0000	0.3931	0.2021	0.0000	0.2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5505	0.3649	7.6000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	66.9014	66.9014	0.0216	0.0000	67.4423
<b>Total</b>	<b>0.0532</b>	<b>0.5505</b>	<b>0.3649</b>	<b>7.6000e-004</b>	<b>0.3931</b>	<b>0.0253</b>	<b>0.4185</b>	<b>0.2021</b>	<b>0.0233</b>	<b>0.2253</b>	<b>0.0000</b>	<b>66.9014</b>	<b>66.9014</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4423</b>



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**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.4000e-004	0.0117	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0447	3.0447	8.0000e-005	8.0000e-005	3.0717
<b>Total</b>	<b>1.2500e-003</b>	<b>9.4000e-004</b>	<b>0.0117</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>2.0000e-005</b>	<b>3.9700e-003</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.0447</b>	<b>3.0447</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0717</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1769	0.0000	0.1769	0.0909	0.0000	0.0909	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0532	0.5505	0.3649	7.6000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	66.9013	66.9013	0.0216	0.0000	67.4422
<b>Total</b>	<b>0.0532</b>	<b>0.5505</b>	<b>0.3649</b>	<b>7.6000e-004</b>	<b>0.1769</b>	<b>0.0253</b>	<b>0.2022</b>	<b>0.0909</b>	<b>0.0233</b>	<b>0.1142</b>	<b>0.0000</b>	<b>66.9013</b>	<b>66.9013</b>	<b>0.0216</b>	<b>0.0000</b>	<b>67.4422</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	9.4000e-004	0.0117	3.0000e-005	3.9500e-003	2.0000e-005	3.9700e-003	1.0500e-003	2.0000e-005	1.0700e-003	0.0000	3.0447	3.0447	8.0000e-005	8.0000e-005	3.0717
<b>Total</b>	<b>1.2500e-003</b>	<b>9.4000e-004</b>	<b>0.0117</b>	<b>3.0000e-005</b>	<b>3.9500e-003</b>	<b>2.0000e-005</b>	<b>3.9700e-003</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.0447</b>	<b>3.0447</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>3.0717</b>

**3.3 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					0.5062	0.0000	0.5062	0.2010	0.0000	0.2010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1827	1.8984	1.5428	3.4100e-003		0.0784	0.0784		0.0721	0.0721	0.0000	299.9437	299.9437	0.0970	0.0000	302.3688
<b>Total</b>	<b>0.1827</b>	<b>1.8984</b>	<b>1.5428</b>	<b>3.4100e-003</b>	<b>0.5062</b>	<b>0.0784</b>	<b>0.5846</b>	<b>0.2010</b>	<b>0.0721</b>	<b>0.2730</b>	<b>0.0000</b>	<b>299.9437</b>	<b>299.9437</b>	<b>0.0970</b>	<b>0.0000</b>	<b>302.3688</b>

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

**3.3 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.8600e-003	0.0357	1.0000e-004	0.0121	6.0000e-005	0.0121	3.2000e-003	6.0000e-005	3.2600e-003	0.0000	9.3033	9.3033	2.5000e-004	2.6000e-004	9.3856
<b>Total</b>	<b>3.8300e-003</b>	<b>2.8600e-003</b>	<b>0.0357</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>6.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>6.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>9.3033</b>	<b>9.3033</b>	<b>2.5000e-004</b>	<b>2.6000e-004</b>	<b>9.3856</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2278	0.0000	0.2278	0.0904	0.0000	0.0904	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1827	1.8984	1.5428	3.4100e-003		0.0784	0.0784		0.0721	0.0721	0.0000	299.9433	299.9433	0.0970	0.0000	302.3685
<b>Total</b>	<b>0.1827</b>	<b>1.8984</b>	<b>1.5428</b>	<b>3.4100e-003</b>	<b>0.2278</b>	<b>0.0784</b>	<b>0.3061</b>	<b>0.0904</b>	<b>0.0721</b>	<b>0.1625</b>	<b>0.0000</b>	<b>299.9433</b>	<b>299.9433</b>	<b>0.0970</b>	<b>0.0000</b>	<b>302.3685</b>

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

**3.3 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.8600e-003	0.0357	1.0000e-004	0.0121	6.0000e-005	0.0121	3.2000e-003	6.0000e-005	3.2600e-003	0.0000	9.3033	9.3033	2.5000e-004	2.6000e-004	9.3856
<b>Total</b>	<b>3.8300e-003</b>	<b>2.8600e-003</b>	<b>0.0357</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>6.0000e-005</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>6.0000e-005</b>	<b>3.2600e-003</b>	<b>0.0000</b>	<b>9.3033</b>	<b>9.3033</b>	<b>2.5000e-004</b>	<b>2.6000e-004</b>	<b>9.3856</b>

**3.4 Building Construction - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3336	126.3336	0.0301	0.0000	127.0849
<b>Total</b>	<b>0.0857</b>	<b>0.7840</b>	<b>0.8853</b>	<b>1.4700e-003</b>		<b>0.0381</b>	<b>0.0381</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>126.3336</b>	<b>126.3336</b>	<b>0.0301</b>	<b>0.0000</b>	<b>127.0849</b>

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.3358	0.1359	1.6300e-003	0.0574	2.4000e-003	0.0598	0.0166	2.3000e-003	0.0189	0.0000	158.6237	158.6237	4.1300e-003	0.0234	165.7125
Worker	0.0822	0.0613	0.7658	2.1800e-003	0.2588	1.3000e-003	0.2601	0.0687	1.2000e-003	0.0699	0.0000	199.5851	199.5851	5.3000e-003	5.4800e-003	201.3516
<b>Total</b>	<b>0.0924</b>	<b>0.3971</b>	<b>0.9017</b>	<b>3.8100e-003</b>	<b>0.3162</b>	<b>3.7000e-003</b>	<b>0.3199</b>	<b>0.0853</b>	<b>3.5000e-003</b>	<b>0.0888</b>	<b>0.0000</b>	<b>358.2087</b>	<b>358.2087</b>	<b>9.4300e-003</b>	<b>0.0289</b>	<b>367.0642</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0857	0.7840	0.8853	1.4700e-003		0.0381	0.0381		0.0359	0.0359	0.0000	126.3334	126.3334	0.0301	0.0000	127.0848
<b>Total</b>	<b>0.0857</b>	<b>0.7840</b>	<b>0.8853</b>	<b>1.4700e-003</b>		<b>0.0381</b>	<b>0.0381</b>		<b>0.0359</b>	<b>0.0359</b>	<b>0.0000</b>	<b>126.3334</b>	<b>126.3334</b>	<b>0.0301</b>	<b>0.0000</b>	<b>127.0848</b>

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

**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.3358	0.1359	1.6300e-003	0.0574	2.4000e-003	0.0598	0.0166	2.3000e-003	0.0189	0.0000	158.6237	158.6237	4.1300e-003	0.0234	165.7125
Worker	0.0822	0.0613	0.7658	2.1800e-003	0.2588	1.3000e-003	0.2601	0.0687	1.2000e-003	0.0699	0.0000	199.5851	199.5851	5.3000e-003	5.4800e-003	201.3516
<b>Total</b>	<b>0.0924</b>	<b>0.3971</b>	<b>0.9017</b>	<b>3.8100e-003</b>	<b>0.3162</b>	<b>3.7000e-003</b>	<b>0.3199</b>	<b>0.0853</b>	<b>3.5000e-003</b>	<b>0.0888</b>	<b>0.0000</b>	<b>358.2087</b>	<b>358.2087</b>	<b>9.4300e-003</b>	<b>0.0289</b>	<b>367.0642</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>

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

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0241	0.8144	0.3214	3.8700e-003	0.1380	5.6900e-003	0.1437	0.0398	5.4400e-003	0.0453	0.0000	376.0296	376.0296	9.6200e-003	0.0556	392.8269
Worker	0.1836	0.1307	1.7129	5.0800e-003	0.6220	3.0000e-003	0.6249	0.1652	2.7600e-003	0.1679	0.0000	465.8164	465.8164	0.0116	0.0122	469.7440
<b>Total</b>	<b>0.2077</b>	<b>0.9451</b>	<b>2.0343</b>	<b>8.9500e-003</b>	<b>0.7599</b>	<b>8.6900e-003</b>	<b>0.7686</b>	<b>0.2050</b>	<b>8.2000e-003</b>	<b>0.2132</b>	<b>0.0000</b>	<b>841.8459</b>	<b>841.8459</b>	<b>0.0212</b>	<b>0.0678</b>	<b>862.5709</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0241	0.8144	0.3214	3.8700e-003	0.1380	5.6900e-003	0.1437	0.0398	5.4400e-003	0.0453	0.0000	376.0296	376.0296	9.6200e-003	0.0556	392.8269
Worker	0.1836	0.1307	1.7129	5.0800e-003	0.6220	3.0000e-003	0.6249	0.1652	2.7600e-003	0.1679	0.0000	465.8164	465.8164	0.0116	0.0122	469.7440
<b>Total</b>	<b>0.2077</b>	<b>0.9451</b>	<b>2.0343</b>	<b>8.9500e-003</b>	<b>0.7599</b>	<b>8.6900e-003</b>	<b>0.7686</b>	<b>0.2050</b>	<b>8.2000e-003</b>	<b>0.2132</b>	<b>0.0000</b>	<b>841.8459</b>	<b>841.8459</b>	<b>0.0212</b>	<b>0.0678</b>	<b>862.5709</b>

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>



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

**3.4 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0235	0.8063	0.3152	3.7800e-003	0.1374	5.6600e-003	0.1431	0.0397	5.4100e-003	0.0451	0.0000	367.3153	367.3153	9.3100e-003	0.0542	383.7115
Worker	0.1703	0.1161	1.5825	4.8900e-003	0.6196	2.8300e-003	0.6224	0.1646	2.6100e-003	0.1672	0.0000	448.2122	448.2122	0.0104	0.0113	451.8442
<b>Total</b>	<b>0.1939</b>	<b>0.9224</b>	<b>1.8977</b>	<b>8.6700e-003</b>	<b>0.7570</b>	<b>8.4900e-003</b>	<b>0.7655</b>	<b>0.2042</b>	<b>8.0200e-003</b>	<b>0.2122</b>	<b>0.0000</b>	<b>815.5275</b>	<b>815.5275</b>	<b>0.0197</b>	<b>0.0656</b>	<b>835.5557</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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

**3.4 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0235	0.8063	0.3152	3.7800e-003	0.1374	5.6600e-003	0.1431	0.0397	5.4100e-003	0.0451	0.0000	367.3153	367.3153	9.3100e-003	0.0542	383.7115
Worker	0.1703	0.1161	1.5825	4.8900e-003	0.6196	2.8300e-003	0.6224	0.1646	2.6100e-003	0.1672	0.0000	448.2122	448.2122	0.0104	0.0113	451.8442
<b>Total</b>	<b>0.1939</b>	<b>0.9224</b>	<b>1.8977</b>	<b>8.6700e-003</b>	<b>0.7570</b>	<b>8.4900e-003</b>	<b>0.7655</b>	<b>0.2042</b>	<b>8.0200e-003</b>	<b>0.2122</b>	<b>0.0000</b>	<b>815.5275</b>	<b>815.5275</b>	<b>0.0197</b>	<b>0.0656</b>	<b>835.5557</b>

**3.4 Building Construction - 2026**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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

**3.4 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0231	0.8003	0.3110	3.7000e-003	0.1374	5.6200e-003	0.1431	0.0397	5.3800e-003	0.0451	0.0000	360.0186	360.0186	9.0200e-003	0.0531	376.0764
Worker	0.1594	0.1046	1.4793	4.7300e-003	0.6196	2.6800e-003	0.6223	0.1646	2.4700e-003	0.1670	0.0000	434.1154	434.1154	9.4100e-003	0.0106	437.5156
<b>Total</b>	<b>0.1825</b>	<b>0.9049</b>	<b>1.7903</b>	<b>8.4300e-003</b>	<b>0.7570</b>	<b>8.3000e-003</b>	<b>0.7653</b>	<b>0.2042</b>	<b>7.8500e-003</b>	<b>0.2121</b>	<b>0.0000</b>	<b>794.1340</b>	<b>794.1340</b>	<b>0.0184</b>	<b>0.0638</b>	<b>813.5920</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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

**3.4 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0231	0.8003	0.3110	3.7000e-003	0.1374	5.6200e-003	0.1431	0.0397	5.3800e-003	0.0451	0.0000	360.0186	360.0186	9.0200e-003	0.0531	376.0764
Worker	0.1594	0.1046	1.4793	4.7300e-003	0.6196	2.6800e-003	0.6223	0.1646	2.4700e-003	0.1670	0.0000	434.1154	434.1154	9.4100e-003	0.0106	437.5156
<b>Total</b>	<b>0.1825</b>	<b>0.9049</b>	<b>1.7903</b>	<b>8.4300e-003</b>	<b>0.7570</b>	<b>8.3000e-003</b>	<b>0.7653</b>	<b>0.2042</b>	<b>7.8500e-003</b>	<b>0.2121</b>	<b>0.0000</b>	<b>794.1340</b>	<b>794.1340</b>	<b>0.0184</b>	<b>0.0638</b>	<b>813.5920</b>

**3.4 Building Construction - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1484	1.3530	1.7452	2.9300e-003		0.0572	0.0572		0.0538	0.0538	0.0000	251.6326	251.6326	0.0592	0.0000	253.1114
<b>Total</b>	<b>0.1484</b>	<b>1.3530</b>	<b>1.7452</b>	<b>2.9300e-003</b>		<b>0.0572</b>	<b>0.0572</b>		<b>0.0538</b>	<b>0.0538</b>	<b>0.0000</b>	<b>251.6326</b>	<b>251.6326</b>	<b>0.0592</b>	<b>0.0000</b>	<b>253.1114</b>

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

**3.4 Building Construction - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0189	0.6603	0.2556	3.0100e-003	0.1143	4.6400e-003	0.1189	0.0330	4.4400e-003	0.0374	0.0000	292.9981	292.9981	7.2500e-003	0.0432	306.0584
Worker	0.1242	0.0789	1.1564	3.8200e-003	0.5151	2.0900e-003	0.5172	0.1368	1.9300e-003	0.1387	0.0000	350.3846	350.3846	7.1200e-003	8.3400e-003	353.0494
<b>Total</b>	<b>0.1431</b>	<b>0.7392</b>	<b>1.4120</b>	<b>6.8300e-003</b>	<b>0.6294</b>	<b>6.7300e-003</b>	<b>0.6361</b>	<b>0.1698</b>	<b>6.3700e-003</b>	<b>0.1762</b>	<b>0.0000</b>	<b>643.3827</b>	<b>643.3827</b>	<b>0.0144</b>	<b>0.0516</b>	<b>659.1078</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1484	1.3530	1.7452	2.9300e-003		0.0572	0.0572		0.0538	0.0538	0.0000	251.6323	251.6323	0.0592	0.0000	253.1111
<b>Total</b>	<b>0.1484</b>	<b>1.3530</b>	<b>1.7452</b>	<b>2.9300e-003</b>		<b>0.0572</b>	<b>0.0572</b>		<b>0.0538</b>	<b>0.0538</b>	<b>0.0000</b>	<b>251.6323</b>	<b>251.6323</b>	<b>0.0592</b>	<b>0.0000</b>	<b>253.1111</b>

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

**3.4 Building Construction - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0189	0.6603	0.2556	3.0100e-003	0.1143	4.6400e-003	0.1189	0.0330	4.4400e-003	0.0374	0.0000	292.9981	292.9981	7.2500e-003	0.0432	306.0584
Worker	0.1242	0.0789	1.1564	3.8200e-003	0.5151	2.0900e-003	0.5172	0.1368	1.9300e-003	0.1387	0.0000	350.3846	350.3846	7.1200e-003	8.3400e-003	353.0494
<b>Total</b>	<b>0.1431</b>	<b>0.7392</b>	<b>1.4120</b>	<b>6.8300e-003</b>	<b>0.6294</b>	<b>6.7300e-003</b>	<b>0.6361</b>	<b>0.1698</b>	<b>6.3700e-003</b>	<b>0.1762</b>	<b>0.0000</b>	<b>643.3827</b>	<b>643.3827</b>	<b>0.0144</b>	<b>0.0516</b>	<b>659.1078</b>

**3.5 Paving - 2027**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0201	0.1888	0.3207	5.0000e-004		9.2100e-003	9.2100e-003		8.4700e-003	8.4700e-003	0.0000	44.0424	44.0424	0.0142	0.0000	44.3985
Paving	0.0152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0354</b>	<b>0.1888</b>	<b>0.3207</b>	<b>5.0000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>8.4700e-003</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>44.0424</b>	<b>44.0424</b>	<b>0.0142</b>	<b>0.0000</b>	<b>44.3985</b>

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

**3.5 Paving - 2027**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	5.5000e-004	8.1200e-003	3.0000e-005	3.6200e-003	1.0000e-005	3.6300e-003	9.6000e-004	1.0000e-005	9.7000e-004	0.0000	2.4612	2.4612	5.0000e-005	6.0000e-005	2.4799
<b>Total</b>	<b>8.7000e-004</b>	<b>5.5000e-004</b>	<b>8.1200e-003</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>3.6300e-003</b>	<b>9.6000e-004</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>2.4612</b>	<b>2.4612</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.4799</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0201	0.1888	0.3207	5.0000e-004		9.2100e-003	9.2100e-003		8.4700e-003	8.4700e-003	0.0000	44.0423	44.0423	0.0142	0.0000	44.3984
Paving	0.0152					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0354</b>	<b>0.1888</b>	<b>0.3207</b>	<b>5.0000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>8.4700e-003</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>44.0423</b>	<b>44.0423</b>	<b>0.0142</b>	<b>0.0000</b>	<b>44.3984</b>

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

**3.5 Paving - 2027**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7000e-004	5.5000e-004	8.1200e-003	3.0000e-005	3.6200e-003	1.0000e-005	3.6300e-003	9.6000e-004	1.0000e-005	9.7000e-004	0.0000	2.4612	2.4612	5.0000e-005	6.0000e-005	2.4799
<b>Total</b>	<b>8.7000e-004</b>	<b>5.5000e-004</b>	<b>8.1200e-003</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>3.6300e-003</b>	<b>9.6000e-004</b>	<b>1.0000e-005</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>2.4612</b>	<b>2.4612</b>	<b>5.0000e-005</b>	<b>6.0000e-005</b>	<b>2.4799</b>

**3.5 Paving - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1330	0.2260	3.5000e-004		6.4900e-003	6.4900e-003		5.9700e-003	5.9700e-003	0.0000	31.0299	31.0299	0.0100	0.0000	31.2807
Paving	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0249</b>	<b>0.1330</b>	<b>0.2260</b>	<b>3.5000e-004</b>		<b>6.4900e-003</b>	<b>6.4900e-003</b>		<b>5.9700e-003</b>	<b>5.9700e-003</b>	<b>0.0000</b>	<b>31.0299</b>	<b>31.0299</b>	<b>0.0100</b>	<b>0.0000</b>	<b>31.2807</b>



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

**3.5 Paving - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	3.6000e-004	5.4200e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6876	1.6876	3.0000e-005	4.0000e-005	1.7001
<b>Total</b>	<b>5.8000e-004</b>	<b>3.6000e-004</b>	<b>5.4200e-003</b>	<b>2.0000e-005</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>2.5600e-003</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.6876</b>	<b>1.6876</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.7001</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1330	0.2260	3.5000e-004		6.4900e-003	6.4900e-003		5.9700e-003	5.9700e-003	0.0000	31.0298	31.0298	0.0100	0.0000	31.2807
Paving	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0249</b>	<b>0.1330</b>	<b>0.2260</b>	<b>3.5000e-004</b>		<b>6.4900e-003</b>	<b>6.4900e-003</b>		<b>5.9700e-003</b>	<b>5.9700e-003</b>	<b>0.0000</b>	<b>31.0298</b>	<b>31.0298</b>	<b>0.0100</b>	<b>0.0000</b>	<b>31.2807</b>

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

**3.5 Paving - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	3.6000e-004	5.4200e-003	2.0000e-005	2.5500e-003	1.0000e-005	2.5600e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6876	1.6876	3.0000e-005	4.0000e-005	1.7001
<b>Total</b>	<b>5.8000e-004</b>	<b>3.6000e-004</b>	<b>5.4200e-003</b>	<b>2.0000e-005</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>2.5600e-003</b>	<b>6.8000e-004</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>1.6876</b>	<b>1.6876</b>	<b>3.0000e-005</b>	<b>4.0000e-005</b>	<b>1.7001</b>

**3.6 Architectural Coating - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
<b>Total</b>	<b>0.7580</b>	<b>0.0430</b>	<b>0.0678</b>	<b>1.1000e-004</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>0.0000</b>	<b>9.5747</b>	<b>9.5747</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>9.5878</b>

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

**3.6 Architectural Coating - 2028**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0900e-003	5.0000e-003	0.0760	2.6000e-004	0.0358	1.4000e-004	0.0359	9.5000e-003	1.2000e-004	9.6300e-003	0.0000	23.6809	23.6809	4.5000e-004	5.5000e-004	23.8565
<b>Total</b>	<b>8.0900e-003</b>	<b>5.0000e-003</b>	<b>0.0760</b>	<b>2.6000e-004</b>	<b>0.0358</b>	<b>1.4000e-004</b>	<b>0.0359</b>	<b>9.5000e-003</b>	<b>1.2000e-004</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>23.6809</b>	<b>23.6809</b>	<b>4.5000e-004</b>	<b>5.5000e-004</b>	<b>23.8565</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7516					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
<b>Total</b>	<b>0.7580</b>	<b>0.0430</b>	<b>0.0678</b>	<b>1.1000e-004</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>0.0000</b>	<b>9.5747</b>	<b>9.5747</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>9.5878</b>

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

**3.6 Architectural Coating - 2028**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0900e-003	5.0000e-003	0.0760	2.6000e-004	0.0358	1.4000e-004	0.0359	9.5000e-003	1.2000e-004	9.6300e-003	0.0000	23.6809	23.6809	4.5000e-004	5.5000e-004	23.8565
<b>Total</b>	<b>8.0900e-003</b>	<b>5.0000e-003</b>	<b>0.0760</b>	<b>2.6000e-004</b>	<b>0.0358</b>	<b>1.4000e-004</b>	<b>0.0359</b>	<b>9.5000e-003</b>	<b>1.2000e-004</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>23.6809</b>	<b>23.6809</b>	<b>4.5000e-004</b>	<b>5.5000e-004</b>	<b>23.8565</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6841	2.1406	13.8578	0.0270	2.7549	0.0226	2.7775	0.7359	0.0212	0.7570	0.0000	2,498.4710	2,498.4710	0.1838	0.1461	2,546.6131
Unmitigated	1.6841	2.1406	13.8578	0.0270	2.7549	0.0226	2.7775	0.7359	0.0212	0.7570	0.0000	2,498.4710	2,498.4710	0.1838	0.1461	2,546.6131

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,825.70	3,696.72	2835.48	3,106,152	3,106,152
Single Family Housing	840.16	849.06	760.95	2,836,632	2,836,632
Medical Office Building	696.00	171.40	28.40	1,363,554	1,363,554
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>4,361.86</b>	<b>4,717.18</b>	<b>3,624.83</b>	<b>7,306,338</b>	<b>7,306,338</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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Single Family Housing	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Fast Food Restaurant with Drive Thru	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Medical Office Building	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Other Asphalt Surfaces	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Parking Lot	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830

**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	314.2368	314.2368	0.0195	2.3600e-003	315.4282
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	314.2368	314.2368	0.0195	2.3600e-003	315.4282
NaturalGas Mitigated	0.0228	0.1996	0.1196	1.2400e-003		0.0157	0.0157		0.0157	0.0157	0.0000	225.3072	225.3072	4.3200e-003	4.1300e-003	226.6461
NaturalGas Unmitigated	0.0228	0.1996	0.1196	1.2400e-003		0.0157	0.0157		0.0157	0.0157	0.0000	225.3072	225.3072	4.3200e-003	4.1300e-003	226.6461

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fast Food Restaurant with Drive Thru	1.63596e+006	8.8200e-003	0.0802	0.0674	4.8000e-004		6.0900e-003	6.0900e-003		6.0900e-003	6.0900e-003	0.0000	87.3011	87.3011	1.6700e-003	1.6000e-003	87.8198
Medical Office Building	68600	3.7000e-004	3.3600e-003	2.8200e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.6608	3.6608	7.0000e-005	7.0000e-005	3.6825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.51754e+006	0.0136	0.1160	0.0494	7.4000e-004		9.3800e-003	9.3800e-003		9.3800e-003	9.3800e-003	0.0000	134.3454	134.3454	2.5700e-003	2.4600e-003	135.1437
<b>Total</b>		<b>0.0228</b>	<b>0.1996</b>	<b>0.1195</b>	<b>1.2400e-003</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0157</b>	<b>0.0157</b>	<b>0.0000</b>	<b>225.3072</b>	<b>225.3072</b>	<b>4.3100e-003</b>	<b>4.1300e-003</b>	<b>226.6461</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	1.63596e+006	8.8200e-003	0.0802	0.0674	4.8000e-004		6.0900e-003	6.0900e-003		6.0900e-003	6.0900e-003	0.0000	87.3011	87.3011	1.6700e-003	1.6000e-003	87.8198
Medical Office Building	68600	3.7000e-004	3.3600e-003	2.8200e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.6608	3.6608	7.0000e-005	7.0000e-005	3.6825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.51754e+006	0.0136	0.1160	0.0494	7.4000e-004		9.3800e-003	9.3800e-003		9.3800e-003	9.3800e-003	0.0000	134.3454	134.3454	2.5700e-003	2.4600e-003	135.1437
<b>Total</b>		<b>0.0228</b>	<b>0.1996</b>	<b>0.1195</b>	<b>1.2400e-003</b>		<b>0.0157</b>	<b>0.0157</b>		<b>0.0157</b>	<b>0.0157</b>	<b>0.0000</b>	<b>225.3072</b>	<b>225.3072</b>	<b>4.3100e-003</b>	<b>4.1300e-003</b>	<b>226.6461</b>



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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	276960	66.8310	4.1500e-003	5.0000e-004	67.0844
Medical Office Building	183800	44.3513	2.7500e-003	3.3000e-004	44.5195
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	132640	32.0064	1.9900e-003	2.4000e-004	32.1277
Single Family Housing	708855	171.0481	0.0106	1.2900e-003	171.6966
<b>Total</b>		<b>314.2368</b>	<b>0.0195</b>	<b>2.3600e-003</b>	<b>315.4282</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	276960	66.8310	4.1500e-003	5.0000e-004	67.0844
Medical Office Building	183800	44.3513	2.7500e-003	3.3000e-004	44.5195
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	132640	32.0064	1.9900e-003	2.4000e-004	32.1277
Single Family Housing	708855	171.0481	0.0106	1.2900e-003	171.6966
<b>Total</b>		<b>314.2368</b>	<b>0.0195</b>	<b>2.3600e-003</b>	<b>315.4282</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1276	0.0337	1.4847	1.4900e-003		0.0901	0.0901		0.0901	0.0901	9.4535	19.6685	29.1220	0.0296	6.4000e-004	30.0542
Unmitigated	1.1276	0.0337	1.4847	1.4900e-003		0.0901	0.0901		0.0901	0.0901	9.4535	19.6685	29.1220	0.0296	6.4000e-004	30.0542

**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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7332					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2915	0.0231	0.5658	1.4400e-003		0.0850	0.0850		0.0850	0.0850	9.4535	18.1664	27.6199	0.0282	6.4000e-004	28.5159
Landscaping	0.0277	0.0106	0.9189	5.0000e-005		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	1.5022	1.5022	1.4500e-003	0.0000	1.5383
<b>Total</b>	<b>1.1276</b>	<b>0.0337</b>	<b>1.4847</b>	<b>1.4900e-003</b>		<b>0.0901</b>	<b>0.0901</b>		<b>0.0901</b>	<b>0.0901</b>	<b>9.4535</b>	<b>19.6685</b>	<b>29.1220</b>	<b>0.0296</b>	<b>6.4000e-004</b>	<b>30.0542</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7332					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2915	0.0231	0.5658	1.4400e-003		0.0850	0.0850		0.0850	0.0850	9.4535	18.1664	27.6199	0.0282	6.4000e-004	28.5159
Landscaping	0.0277	0.0106	0.9189	5.0000e-005		5.0900e-003	5.0900e-003		5.0900e-003	5.0900e-003	0.0000	1.5022	1.5022	1.4500e-003	0.0000	1.5383
<b>Total</b>	<b>1.1276</b>	<b>0.0337</b>	<b>1.4847</b>	<b>1.4900e-003</b>		<b>0.0901</b>	<b>0.0901</b>		<b>0.0901</b>	<b>0.0901</b>	<b>9.4535</b>	<b>19.6685</b>	<b>29.1220</b>	<b>0.0296</b>	<b>6.4000e-004</b>	<b>30.0542</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	46.4341	0.3328	8.1200e-003	57.1723
Unmitigated	46.4341	0.3328	8.1200e-003	57.1723

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.8212 / 0.116247	6.6116	0.0597	1.4500e-003	8.5357
Medical Office Building	2.50961 / 0.478021	9.9629	0.0823	2.0000e-003	12.6174
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.79871 / 3.65571	29.8596	0.1907	4.6700e-003	36.0192
<b>Total</b>		<b>46.4341</b>	<b>0.3328</b>	<b>8.1200e-003</b>	<b>57.1723</b>

Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.8212 / 0.116247	6.6116	0.0597	1.4500e-003	8.5357
Medical Office Building	2.50961 / 0.478021	9.9629	0.0823	2.0000e-003	12.6174
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.79871 / 3.65571	29.8596	0.1907	4.6700e-003	36.0192
<b>Total</b>		<b>46.4341</b>	<b>0.3328</b>	<b>8.1200e-003</b>	<b>57.1723</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	79.0975	4.6745	0.0000	195.9606
Unmitigated	79.0975	4.6745	0.0000	195.9606



Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	69.11	14.0287	0.8291	0.0000	34.7555
Medical Office Building	216	43.8461	2.5912	0.0000	108.6267
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	104.55	21.2227	1.2542	0.0000	52.5784
<b>Total</b>		<b>79.0975</b>	<b>4.6745</b>	<b>0.0000</b>	<b>195.9606</b>

Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	69.11	14.0287	0.8291	0.0000	34.7555
Medical Office Building	216	43.8461	2.5912	0.0000	108.6267
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	104.55	21.2227	1.2542	0.0000	52.5784
<b>Total</b>		<b>79.0975</b>	<b>4.6745</b>	<b>0.0000</b>	<b>195.9606</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Annexation GPA Loma Linda: City GPA - San Bernardino-South Coast County, Annual

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

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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