

Annexation GPA Loma Linda: County 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: County GPA
San Bernardino-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	13.00	Dwelling Unit	4.22	23,400.00	37
Other Non-Asphalt Surfaces	62.46	Acre	62.46	2,720,757.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase -
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
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2.0 Emissions Summary

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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	0.3594	3.1129	3.1278	8.4600e-003	1.2156	0.1209	1.3365	0.4883	0.1116	0.5999	0.0000	765.4741	765.4741	0.1387	0.0280	777.2817
2024	0.7437	4.2872	7.5155	0.0273	2.0168	0.1035	2.1203	0.5442	0.0974	0.6416	0.0000	2,544.1499	2,544.1499	0.1282	0.1811	2,601.3101
2025	0.6926	4.0931	7.1347	0.0266	2.0091	0.0915	2.1006	0.5421	0.0862	0.6282	0.0000	2,473.1248	2,473.1248	0.1236	0.1752	2,528.4112
2026	0.6625	4.0465	6.8500	0.0260	2.0091	0.0910	2.1001	0.5421	0.0857	0.6278	0.0000	2,416.2522	2,416.2522	0.1202	0.1703	2,470.0189
2027	0.6350	4.0044	6.6062	0.0254	2.0091	0.0905	2.0996	0.5421	0.0852	0.6273	0.0000	2,362.2784	2,362.2784	0.1172	0.1657	2,414.5934
2028	0.5757	0.7743	1.4656	4.1700e-003	0.3005	0.0270	0.3274	0.0806	0.0252	0.1058	0.0000	381.4709	381.4709	0.0375	0.0176	387.6622
Maximum	0.7437	4.2872	7.5155	0.0273	2.0168	0.1209	2.1203	0.5442	0.1116	0.6416	0.0000	2,544.1499	2,544.1499	0.1387	0.1811	2,601.3101

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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
Year	tons/yr										MT/yr					
2023	0.3594	3.1129	3.1278	8.4600e-003	0.7209	0.1209	0.8419	0.2666	0.1116	0.3782	0.0000	765.4736	765.4736	0.1387	0.0280	777.2812
2024	0.7437	4.2872	7.5155	0.0273	2.0168	0.1035	2.1203	0.5442	0.0974	0.6416	0.0000	2,544.1495	2,544.1495	0.1282	0.1811	2,601.3098
2025	0.6926	4.0931	7.1347	0.0266	2.0091	0.0915	2.1006	0.5421	0.0862	0.6282	0.0000	2,473.1244	2,473.1244	0.1236	0.1752	2,528.4108
2026	0.6625	4.0465	6.8500	0.0260	2.0091	0.0910	2.1001	0.5421	0.0857	0.6278	0.0000	2,416.2519	2,416.2519	0.1202	0.1703	2,470.0185
2027	0.6350	4.0044	6.6062	0.0254	2.0091	0.0905	2.0996	0.5421	0.0852	0.6273	0.0000	2,362.2781	2,362.2781	0.1172	0.1657	2,414.5930
2028	0.5757	0.7743	1.4656	4.1700e-003	0.3005	0.0270	0.3274	0.0806	0.0252	0.1058	0.0000	381.4708	381.4708	0.0375	0.0176	387.6621
Maximum	0.7437	4.2872	7.5155	0.0273	2.0168	0.1209	2.1203	0.5442	0.1116	0.6416	0.0000	2,544.1495	2,544.1495	0.1387	0.1811	2,601.3098

	ROG	NOx	CO	SO2	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	5.17	0.00	4.90	8.09	0.00	6.86	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	4-3-2023	7-2-2023	0.9720	0.9720
3	7-3-2023	10-2-2023	1.2473	1.2473
4	10-3-2023	1-2-2024	1.2911	1.2911
5	1-3-2024	4-2-2024	1.2551	1.2551
6	4-3-2024	7-2-2024	1.2287	1.2287

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7	7-3-2024	10-2-2024	1.2428	1.2428
8	10-3-2024	1-2-2025	1.2683	1.2683
9	1-3-2025	4-2-2025	1.1857	1.1857
10	4-3-2025	7-2-2025	1.1724	1.1724
11	7-3-2025	10-2-2025	1.1859	1.1859
12	10-3-2025	1-2-2026	1.2122	1.2122
13	1-3-2026	4-2-2026	1.1668	1.1668
14	4-3-2026	7-2-2026	1.1533	1.1533
15	7-3-2026	10-2-2026	1.1666	1.1666
16	10-3-2026	1-2-2027	1.1929	1.1929
17	1-3-2027	4-2-2027	1.1496	1.1496
18	4-3-2027	7-2-2027	1.1360	1.1360
19	7-3-2027	10-2-2027	1.1490	1.1490
20	10-3-2027	1-2-2028	1.1754	1.1754
21	1-3-2028	4-2-2028	0.6419	0.6419
22	4-3-2028	7-2-2028	0.3803	0.3803
23	7-3-2028	9-30-2028	0.3271	0.3271
		Highest	1.2911	1.2911

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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	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911
Energy	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	44.6080	44.6080	1.9300e-003	5.5000e-004	44.8194
Mobile	0.0631	0.1015	0.6625	1.4900e-003	0.1562	1.1900e-003	0.1574	0.0417	1.1200e-003	0.0429	0.0000	138.0609	138.0609	7.8900e-003	6.9700e-003	140.3354
Waste						0.0000	0.0000		0.0000	0.0000	3.0794	0.0000	3.0794	0.1820	0.0000	7.6290
Water						0.0000	0.0000		0.0000	0.0000	0.2687	4.0928	4.3615	0.0279	6.8000e-004	5.2612
Total	0.4174	0.1233	0.8872	1.8200e-003	0.1562	0.0157	0.1720	0.0417	0.0157	0.0574	4.7289	189.6358	194.3647	0.2240	8.2900e-003	202.4362

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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	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911
Energy	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	44.6080	44.6080	1.9300e-003	5.5000e-004	44.8194
Mobile	0.0631	0.1015	0.6625	1.4900e-003	0.1562	1.1900e-003	0.1574	0.0417	1.1200e-003	0.0429	0.0000	138.0609	138.0609	7.8900e-003	6.9700e-003	140.3354
Waste						0.0000	0.0000		0.0000	0.0000	3.0794	0.0000	3.0794	0.1820	0.0000	7.6290
Water						0.0000	0.0000		0.0000	0.0000	0.2687	4.0928	4.3615	0.0279	6.8000e-004	5.2612
Total	0.4174	0.1233	0.8872	1.8200e-003	0.1562	0.0157	0.1720	0.0417	0.0157	0.0574	4.7289	189.6358	194.3647	0.2240	8.2900e-003	202.4362

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/11/2023	6/5/2023	5	40	
2	Grading	Grading	6/6/2023	11/6/2023	5	110	
3	Building Construction	Building Construction	11/7/2023	2/7/2028	5	110	

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4	Paving	Paving	2/8/2028	5/22/2028	5	75
5	Architectural Coating	Architectural Coating	5/23/2028	9/4/2028	5	75

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 330

Acres of Paving: 62.46

Residential Indoor: 47,385; Residential Outdoor: 15,795; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 163,245 (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	1,147.00	447.00	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	229.00	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
Total	0.0532	0.5505	0.3649	7.6000e-004	0.3931	0.0253	0.4185	0.2021	0.0233	0.2253	0.0000	66.9014	66.9014	0.0216	0.0000	67.4423

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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
Total	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

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
Total	0.0532	0.5505	0.3649	7.6000e-004	0.1769	0.0253	0.2022	0.0909	0.0233	0.1142	0.0000	66.9013	66.9013	0.0216	0.0000	67.4422

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Mitigated Construction Off-Site

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

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
Total	0.1827	1.8984	1.5428	3.4100e-003	0.5062	0.0784	0.5846	0.2010	0.0721	0.2730	0.0000	299.9437	299.9437	0.0970	0.0000	302.3688

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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
Total	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

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
Total	0.1827	1.8984	1.5428	3.4100e-003	0.2278	0.0784	0.3061	0.0904	0.0721	0.1625	0.0000	299.9433	299.9433	0.0970	0.0000	302.3685

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Mitigated Construction Off-Site

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

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	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4708
Total	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4708

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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	9.8300e-003	0.3216	0.1302	1.5600e-003	0.0550	2.3000e-003	0.0573	0.0159	2.2000e-003	0.0181	0.0000	151.9138	151.9138	3.9500e-003	0.0225	158.7028
Worker	0.0779	0.0581	0.7258	2.0600e-003	0.2452	1.2300e-003	0.2465	0.0651	1.1300e-003	0.0663	0.0000	189.1654	189.1654	5.0300e-003	5.2000e-003	190.8397
Total	0.0877	0.3797	0.8560	3.6200e-003	0.3002	3.5300e-003	0.3037	0.0810	3.3300e-003	0.0843	0.0000	341.0792	341.0792	8.9800e-003	0.0277	349.5425

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	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4707
Total	0.0307	0.2805	0.3168	5.3000e-004		0.0136	0.0136		0.0128	0.0128	0.0000	45.2019	45.2019	0.0108	0.0000	45.4707

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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	9.8300e-003	0.3216	0.1302	1.5600e-003	0.0550	2.3000e-003	0.0573	0.0159	2.2000e-003	0.0181	0.0000	151.9138	151.9138	3.9500e-003	0.0225	158.7028
Worker	0.0779	0.0581	0.7258	2.0600e-003	0.2452	1.2300e-003	0.2465	0.0651	1.1300e-003	0.0663	0.0000	189.1654	189.1654	5.0300e-003	5.2000e-003	190.8397
Total	0.0877	0.3797	0.8560	3.6200e-003	0.3002	3.5300e-003	0.3037	0.0810	3.3300e-003	0.0843	0.0000	341.0792	341.0792	8.9800e-003	0.0277	349.5425

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
Total	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

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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	0.0645	2.1798	0.8602	0.0104	0.3693	0.0152	0.3845	0.1066	0.0146	0.1212	0.0000	1,006.498 3	1,006.498 3	0.0258	0.1487	1,051.458 9
Worker	0.4865	0.3463	4.5374	0.0135	1.6475	7.9300e-003	1.6555	0.4376	7.3000e-003	0.4449	0.0000	1,233.929 2	1,233.929 2	0.0306	0.0324	1,244.333 3
Total	0.5510	2.5260	5.3976	0.0238	2.0168	0.0232	2.0400	0.5442	0.0219	0.5660	0.0000	2,240.427 6	2,240.427 6	0.0564	0.1811	2,295.792 2

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
Total	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

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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	0.0645	2.1798	0.8602	0.0104	0.3693	0.0152	0.3845	0.1066	0.0146	0.1212	0.0000	1,006.498 3	1,006.498 3	0.0258	0.1487	1,051.458 9
Worker	0.4865	0.3463	4.5374	0.0135	1.6475	7.9300e-003	1.6555	0.4376	7.3000e-003	0.4449	0.0000	1,233.929 2	1,233.929 2	0.0306	0.0324	1,244.333 3
Total	0.5510	2.5260	5.3976	0.0238	2.0168	0.0232	2.0400	0.5442	0.0219	0.5660	0.0000	2,240.427 6	2,240.427 6	0.0564	0.1811	2,295.792 2

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
Total	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

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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	0.0630	2.1583	0.8436	0.0101	0.3679	0.0151	0.3830	0.1062	0.0145	0.1207	0.0000	983.1733	983.1733	0.0249	0.1452	1,027.0600
Worker	0.4512	0.3075	4.1921	0.0130	1.6412	7.5000e-003	1.6487	0.4359	6.9000e-003	0.4428	0.0000	1,187.2966	1,187.2966	0.0275	0.0300	1,196.9176
Total	0.5142	2.4658	5.0356	0.0231	2.0091	0.0226	2.0318	0.5421	0.0214	0.5635	0.0000	2,170.4699	2,170.4699	0.0524	0.1752	2,223.9777

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
Total	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

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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	0.0630	2.1583	0.8436	0.0101	0.3679	0.0151	0.3830	0.1062	0.0145	0.1207	0.0000	983.1733	983.1733	0.0249	0.1452	1,027.0600
Worker	0.4512	0.3075	4.1921	0.0130	1.6412	7.5000e-003	1.6487	0.4359	6.9000e-003	0.4428	0.0000	1,187.2966	1,187.2966	0.0275	0.0300	1,196.9176
Total	0.5142	2.4658	5.0356	0.0231	2.0091	0.0226	2.0318	0.5421	0.0214	0.5635	0.0000	2,170.4699	2,170.4699	0.0524	0.1752	2,223.9777

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
Total	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

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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	0.0619	2.1422	0.8324	9.9100e-003	0.3679	0.0151	0.3829	0.1062	0.0144	0.1206	0.0000	963.6427	963.6427	0.0242	0.1422	1,006.6236
Worker	0.4222	0.2770	3.9185	0.0125	1.6412	7.1000e-003	1.6483	0.4359	6.5400e-003	0.4424	0.0000	1,149.9546	1,149.9546	0.0249	0.0281	1,158.9618
Total	0.4841	2.4192	4.7509	0.0225	2.0091	0.0222	2.0313	0.5421	0.0209	0.5630	0.0000	2,113.5973	2,113.5973	0.0491	0.1704	2,165.5854

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
Total	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

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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	0.0619	2.1422	0.8324	9.9100e-003	0.3679	0.0151	0.3829	0.1062	0.0144	0.1206	0.0000	963.6427	963.6427	0.0242	0.1422	1,006.6236
Worker	0.4222	0.2770	3.9185	0.0125	1.6412	7.1000e-003	1.6483	0.4359	6.5400e-003	0.4424	0.0000	1,149.9546	1,149.9546	0.0249	0.0281	1,158.9618
Total	0.4841	2.4192	4.7509	0.0225	2.0091	0.0222	2.0313	0.5421	0.0209	0.5630	0.0000	2,113.5973	2,113.5973	0.0491	0.1704	2,165.5854

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	0.1785	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
Total	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

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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	0.0610	2.1259	0.8228	9.7000e-003	0.3679	0.0150	0.3828	0.1062	0.0143	0.1205	0.0000	943.2712	943.2712	0.0234	0.1391	985.3172
Worker	0.3956	0.2512	3.6843	0.0122	1.6412	6.6700e-003	1.6479	0.4359	6.1400e-003	0.4420	0.0000	1,116.3523	1,116.3523	0.0227	0.0266	1,124.8427
Total	0.4566	2.3771	4.5071	0.0219	2.0091	0.0216	2.0307	0.5421	0.0204	0.5625	0.0000	2,059.6236	2,059.6236	0.0460	0.1657	2,110.1599

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
Total	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

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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	0.0610	2.1259	0.8228	9.7000e-003	0.3679	0.0150	0.3828	0.1062	0.0143	0.1205	0.0000	943.2712	943.2712	0.0234	0.1391	985.3172
Worker	0.3956	0.2512	3.6843	0.0122	1.6412	6.6700e-003	1.6479	0.4359	6.1400e-003	0.4420	0.0000	1,116.3523	1,116.3523	0.0227	0.0266	1,124.8427
Total	0.4566	2.3771	4.5071	0.0219	2.0091	0.0216	2.0307	0.5421	0.0204	0.5625	0.0000	2,059.6236	2,059.6236	0.0460	0.1657	2,110.1599

3.4 Building Construction - 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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
Total	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267

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3.4 Building Construction - 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	5.9900e-003	0.2105	0.0812	9.5000e-004	0.0367	1.4800e-003	0.0381	0.0106	1.4200e-003	0.0120	0.0000	92.0274	92.0274	2.2600e-003	0.0136	96.1262
Worker	0.0370	0.0229	0.3475	1.1800e-003	0.1635	6.2000e-004	0.1641	0.0434	5.7000e-004	0.0440	0.0000	108.2317	108.2317	2.0700e-003	2.5200e-003	109.0344
Total	0.0430	0.2334	0.4287	2.1300e-003	0.2001	2.1000e-003	0.2022	0.0540	1.9900e-003	0.0560	0.0000	200.2591	200.2591	4.3300e-003	0.0161	205.1606

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	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267
Total	0.0178	0.1621	0.2091	3.5000e-004		6.8600e-003	6.8600e-003		6.4500e-003	6.4500e-003	0.0000	30.1495	30.1495	7.0900e-003	0.0000	30.3267

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3.4 Building Construction - 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	5.9900e-003	0.2105	0.0812	9.5000e-004	0.0367	1.4800e-003	0.0381	0.0106	1.4200e-003	0.0120	0.0000	92.0274	92.0274	2.2600e-003	0.0136	96.1262
Worker	0.0370	0.0229	0.3475	1.1800e-003	0.1635	6.2000e-004	0.1641	0.0434	5.7000e-004	0.0440	0.0000	108.2317	108.2317	2.0700e-003	2.5200e-003	109.0344
Total	0.0430	0.2334	0.4287	2.1300e-003	0.2001	2.1000e-003	0.2022	0.0540	1.9900e-003	0.0560	0.0000	200.2591	200.2591	4.3300e-003	0.0161	205.1606

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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0722	75.0722	0.0243	0.0000	75.6792

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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	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132
Total	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132

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	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0343	0.3218	0.5467	8.5000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	75.0721	75.0721	0.0243	0.0000	75.6791

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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	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132
Total	1.3900e-003	8.6000e-004	0.0131	4.0000e-005	6.1700e-003	2.0000e-005	6.1900e-003	1.6400e-003	2.0000e-005	1.6600e-003	0.0000	4.0829	4.0829	8.0000e-005	1.0000e-004	4.1132

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	0.4515					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
Total	0.4579	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

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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	0.0213	0.0132	0.2001	6.8000e-004	0.0942	3.6000e-004	0.0945	0.0250	3.3000e-004	0.0253	0.0000	62.3325	62.3325	1.1900e-003	1.4500e-003	62.7948
Total	0.0213	0.0132	0.2001	6.8000e-004	0.0942	3.6000e-004	0.0945	0.0250	3.3000e-004	0.0253	0.0000	62.3325	62.3325	1.1900e-003	1.4500e-003	62.7948

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	0.4515					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
Total	0.4579	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

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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	0.0213	0.0132	0.2001	6.8000e-004	0.0942	3.6000e-004	0.0945	0.0250	3.3000e-004	0.0253	0.0000	62.3325	62.3325	1.1900e-003	1.4500e-003	62.7948
Total	0.0213	0.0132	0.2001	6.8000e-004	0.0942	3.6000e-004	0.0945	0.0250	3.3000e-004	0.0253	0.0000	62.3325	62.3325	1.1900e-003	1.4500e-003	62.7948

4.0 Operational Detail - Mobile

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	0.0631	0.1015	0.6625	1.4900e-003	0.1562	1.1900e-003	0.1574	0.0417	1.1200e-003	0.0429	0.0000	138.0609	138.0609	7.8900e-003	6.9700e-003	140.3354
Unmitigated	0.0631	0.1015	0.6625	1.4900e-003	0.1562	1.1900e-003	0.1574	0.0417	1.1200e-003	0.0429	0.0000	138.0609	138.0609	7.8900e-003	6.9700e-003	140.3354

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	122.72	124.02	111.15	414,339	414,339
Total	122.72	124.02	111.15	414,339	414,339

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
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
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

5.0 Energy Detail

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

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	24.9846	24.9846	1.5500e-003	1.9000e-004	25.0793
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	24.9846	24.9846	1.5500e-003	1.9000e-004	25.0793
NaturalGas Mitigated	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401
NaturalGas Unmitigated	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401

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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					
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
Single Family Housing	367730	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401
Total		1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401

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					
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
Single Family Housing	367730	1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401
Total		1.9800e-003	0.0169	7.2100e-003	1.1000e-004		1.3700e-003	1.3700e-003		1.3700e-003	1.3700e-003	0.0000	19.6235	19.6235	3.8000e-004	3.6000e-004	19.7401

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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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	103541	24.9846	1.5500e-003	1.9000e-004	25.0793
Total		24.9846	1.5500e-003	1.9000e-004	25.0793

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	103541	24.9846	1.5500e-003	1.9000e-004	25.0793
Total		24.9846	1.5500e-003	1.9000e-004	25.0793

6.0 Area Detail

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

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	tons/yr										MT/yr					
Mitigated	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911
Unmitigated	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911

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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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0426	3.3700e-003	0.0826	2.1000e-004		0.0124	0.0124		0.0124	0.0124	1.3809	2.6535	4.0344	4.1200e-003	9.0000e-005	4.1652
Landscaping	4.1000e-003	1.5500e-003	0.1348	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	0.2205	0.2205	2.1000e-004	0.0000	0.2259
Total	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911

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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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0426	3.3700e-003	0.0826	2.1000e-004		0.0124	0.0124		0.0124	0.0124	1.3809	2.6535	4.0344	4.1200e-003	9.0000e-005	4.1652
Landscaping	4.1000e-003	1.5500e-003	0.1348	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	0.2205	0.2205	2.1000e-004	0.0000	0.2259
Total	0.3523	4.9200e-003	0.2174	2.2000e-004		0.0132	0.0132		0.0132	0.0132	1.3809	2.8741	4.2549	4.3300e-003	9.0000e-005	4.3911

7.0 Water Detail

7.1 Mitigation Measures Water

Annexation GPA Loma Linda: County 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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.3615	0.0279	6.8000e-004	5.2612
Unmitigated	4.3615	0.0279	6.8000e-004	5.2612

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.847002 / 0.53398	4.3615	0.0279	6.8000e-004	5.2612
Total		4.3615	0.0279	6.8000e-004	5.2612

Annexation GPA Loma Linda: County 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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.847002 / 0.53398	4.3615	0.0279	6.8000e-004	5.2612
Total		4.3615	0.0279	6.8000e-004	5.2612

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.0794	0.1820	0.0000	7.6290
Unmitigated	3.0794	0.1820	0.0000	7.6290

Annexation GPA Loma Linda: County 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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	15.17	3.0794	0.1820	0.0000	7.6290
Total		3.0794	0.1820	0.0000	7.6290

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	15.17	3.0794	0.1820	0.0000	7.6290
Total		3.0794	0.1820	0.0000	7.6290

9.0 Operational Offroad

Annexation GPA Loma Linda: County 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	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
