

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

**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, Summer**

**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**

<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 -
- 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 (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	6.5782	34.5628	65.9612	0.2214	19.8582	1.4256	21.1252	10.1558	1.3115	11.3215	0.0000	22,707.31 18	22,707.31 18	1.9491	1.5424	23,194.74 79
2024	6.1449	31.6618	62.7405	0.2170	15.6846	0.7899	16.4744	4.2248	0.7436	4.9684	0.0000	22,251.89 84	22,251.89 84	1.0750	1.5047	22,727.16 61
2025	5.7408	30.3343	59.6024	0.2117	15.6845	0.7009	16.3854	4.2248	0.6600	4.8847	0.0000	21,702.88 15	21,702.88 15	1.0397	1.4620	22,164.56 25
2026	5.4800	30.0065	57.0623	0.2068	15.6845	0.6972	16.3816	4.2247	0.6565	4.8813	0.0000	21,195.16 29	21,195.16 29	1.0115	1.4224	21,644.33 64
2027	5.2419	29.7105	54.8917	0.2021	15.6845	0.6931	16.3775	4.2247	0.6527	4.8775	0.0000	20,715.01 30	20,715.01 30	0.9859	1.3844	21,152.20 22
2028	12.8460	29.4706	53.0831	0.1979	15.6844	0.6890	16.3734	4.2247	0.6490	4.8737	0.0000	20,277.05 35	20,277.05 35	0.9644	1.3492	20,703.21 85
<b>Maximum</b>	<b>12.8460</b>	<b>34.5628</b>	<b>65.9612</b>	<b>0.2214</b>	<b>19.8582</b>	<b>1.4256</b>	<b>21.1252</b>	<b>10.1558</b>	<b>1.3115</b>	<b>11.3215</b>	<b>0.0000</b>	<b>22,707.31 18</b>	<b>22,707.31 18</b>	<b>1.9491</b>	<b>1.5424</b>	<b>23,194.74 79</b>



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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1137	0.2821	7.6896	0.0169		0.9990	0.9990		0.9990	0.9990	121.7699	235.9449	357.7148	0.3650	8.2600e-003	369.3035
Energy	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314
Mobile	0.4098	0.5263	4.0034	8.9200e-003	0.8949	6.7200e-003	0.9016	0.2387	6.2900e-003	0.2450		909.1125	909.1125	0.0473	0.0416	922.6834
<b>Total</b>	<b>5.5344</b>	<b>0.9012</b>	<b>11.7325</b>	<b>0.0264</b>	<b>0.8949</b>	<b>1.0132</b>	<b>1.9081</b>	<b>0.2387</b>	<b>1.0128</b>	<b>1.2515</b>	<b>121.7699</b>	<b>1,263.5844</b>	<b>1,385.3543</b>	<b>0.4146</b>	<b>0.0520</b>	<b>1,411.2183</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1137	0.2821	7.6896	0.0169		0.9990	0.9990		0.9990	0.9990	121.7699	235.9449	357.7148	0.3650	8.2600e-003	369.3035
Energy	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314
Mobile	0.4098	0.5263	4.0034	8.9200e-003	0.8949	6.7200e-003	0.9016	0.2387	6.2900e-003	0.2450		909.1125	909.1125	0.0473	0.0416	922.6834
<b>Total</b>	<b>5.5344</b>	<b>0.9012</b>	<b>11.7325</b>	<b>0.0264</b>	<b>0.8949</b>	<b>1.0132</b>	<b>1.9081</b>	<b>0.2387</b>	<b>1.0128</b>	<b>1.2515</b>	<b>121.7699</b>	<b>1,263.5844</b>	<b>1,385.3543</b>	<b>0.4146</b>	<b>0.0520</b>	<b>1,411.2183</b>

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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
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	1110	
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

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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**

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

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**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	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205
<b>Total</b>	<b>0.0703</b>	<b>0.0424</b>	<b>0.6770</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>9.9000e-004</b>	<b>0.2022</b>	<b>0.0534</b>	<b>9.1000e-004</b>	<b>0.0543</b>		<b>181.6220</b>	<b>181.6220</b>	<b>4.3900e-003</b>	<b>4.3200e-003</b>	<b>183.0205</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>8.8457</b>	<b>1.2660</b>	<b>10.1117</b>	<b>4.5461</b>	<b>1.1647</b>	<b>5.7108</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205
<b>Total</b>	<b>0.0703</b>	<b>0.0424</b>	<b>0.6770</b>	<b>1.8000e-003</b>	<b>0.2012</b>	<b>9.9000e-004</b>	<b>0.2022</b>	<b>0.0534</b>	<b>9.1000e-004</b>	<b>0.0543</b>		<b>181.6220</b>	<b>181.6220</b>	<b>4.3900e-003</b>	<b>4.3200e-003</b>	<b>183.0205</b>



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**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	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.4245</b>	<b>10.6281</b>	<b>3.6538</b>	<b>1.3105</b>	<b>4.9643</b>		<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561
<b>Total</b>	<b>0.0782</b>	<b>0.0472</b>	<b>0.7522</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.1000e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0100e-003</b>	<b>0.0603</b>		<b>201.8023</b>	<b>201.8023</b>	<b>4.8800e-003</b>	<b>4.8000e-003</b>	<b>203.3561</b>

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**3.3 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
<b>Total</b>	<b>3.3217</b>	<b>34.5156</b>	<b>28.0512</b>	<b>0.0621</b>	<b>4.1416</b>	<b>1.4245</b>	<b>5.5661</b>	<b>1.6442</b>	<b>1.3105</b>	<b>2.9547</b>	<b>0.0000</b>	<b>6,011.4777</b>	<b>6,011.4777</b>	<b>1.9442</b>		<b>6,060.0836</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561
<b>Total</b>	<b>0.0782</b>	<b>0.0472</b>	<b>0.7522</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.1000e-003</b>	<b>0.2247</b>	<b>0.0593</b>	<b>1.0100e-003</b>	<b>0.0603</b>		<b>201.8023</b>	<b>201.8023</b>	<b>4.8800e-003</b>	<b>4.8000e-003</b>	<b>203.3561</b>

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**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5232	15.6788	6.5790	0.0800	2.8638	0.1178	2.9817	0.8246	0.1127	0.9374		8,578.7427	8,578.7427	0.2242	1.2669	8,961.8679
Worker	4.4822	2.7044	43.1382	0.1145	12.8208	0.0632	12.8839	3.4001	0.0581	3.4583		11,573.3592	11,573.3592	0.2799	0.2756	11,662.4739
<b>Total</b>	<b>5.0054</b>	<b>18.3832</b>	<b>49.7172</b>	<b>0.1945</b>	<b>15.6846</b>	<b>0.1810</b>	<b>15.8656</b>	<b>4.2248</b>	<b>0.1708</b>	<b>4.3956</b>		<b>20,152.1019</b>	<b>20,152.1019</b>	<b>0.5041</b>	<b>1.5424</b>	<b>20,624.3418</b>

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

**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 On-Site**

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5232	15.6788	6.5790	0.0800	2.8638	0.1178	2.9817	0.8246	0.1127	0.9374		8,578.7427	8,578.7427	0.2242	1.2669	8,961.8679
Worker	4.4822	2.7044	43.1382	0.1145	12.8208	0.0632	12.8839	3.4001	0.0581	3.4583		11,573.3592	11,573.3592	0.2799	0.2756	11,662.4739
<b>Total</b>	<b>5.0054</b>	<b>18.3832</b>	<b>49.7172</b>	<b>0.1945</b>	<b>15.6846</b>	<b>0.1810</b>	<b>15.8656</b>	<b>4.2248</b>	<b>0.1708</b>	<b>4.3956</b>		<b>20,152.1019</b>	<b>20,152.1019</b>	<b>0.5041</b>	<b>1.5424</b>	<b>20,624.3418</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5112	15.8183	6.4697	0.0789	2.8638	0.1160	2.9798	0.8246	0.1110	0.9356		8,460.5645	8,460.5645	0.2174	1.2492	8,838.2703
Worker	4.1622	2.3997	40.1040	0.1112	12.8208	0.0606	12.8813	3.4001	0.0557	3.4559		11,235.6350	11,235.6350	0.2532	0.2555	11,318.0882
<b>Total</b>	<b>4.6733</b>	<b>18.2180</b>	<b>46.5737</b>	<b>0.1901</b>	<b>15.6846</b>	<b>0.1766</b>	<b>15.8611</b>	<b>4.2248</b>	<b>0.1667</b>	<b>4.3915</b>		<b>19,696.1995</b>	<b>19,696.1995</b>	<b>0.4706</b>	<b>1.5047</b>	<b>20,156.3585</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5112	15.8183	6.4697	0.0789	2.8638	0.1160	2.9798	0.8246	0.1110	0.9356		8,460.5645	8,460.5645	0.2174	1.2492	8,838.2703
Worker	4.1622	2.3997	40.1040	0.1112	12.8208	0.0606	12.8813	3.4001	0.0557	3.4559		11,235.6350	11,235.6350	0.2532	0.2555	11,318.0882
<b>Total</b>	<b>4.6733</b>	<b>18.2180</b>	<b>46.5737</b>	<b>0.1901</b>	<b>15.6846</b>	<b>0.1766</b>	<b>15.8611</b>	<b>4.2248</b>	<b>0.1667</b>	<b>4.3915</b>		<b>19,696.1995</b>	<b>19,696.1995</b>	<b>0.4706</b>	<b>1.5047</b>	<b>20,156.3585</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5013	15.7238	6.3681	0.0774	2.8638	0.1159	2.9796	0.8246	0.1108	0.9354		8,296.078 9	8,296.078 9	0.2112	1.2243	8,666.187 4
Worker	3.8720	2.1408	37.1496	0.1074	12.8208	0.0575	12.8782	3.4001	0.0529	3.4530		10,850.32 82	10,850.32 82	0.2276	0.2378	10,926.87 71
<b>Total</b>	<b>4.3734</b>	<b>17.8646</b>	<b>43.5177</b>	<b>0.1847</b>	<b>15.6845</b>	<b>0.1733</b>	<b>15.8578</b>	<b>4.2248</b>	<b>0.1637</b>	<b>4.3885</b>		<b>19,146.40 71</b>	<b>19,146.40 71</b>	<b>0.4388</b>	<b>1.4620</b>	<b>19,593.06 44</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.5013	15.7238	6.3681	0.0774	2.8638	0.1159	2.9796	0.8246	0.1108	0.9354		8,296.078 9	8,296.078 9	0.2112	1.2243	8,666.187 4
Worker	3.8720	2.1408	37.1496	0.1074	12.8208	0.0575	12.8782	3.4001	0.0529	3.4530		10,850.32 82	10,850.32 82	0.2276	0.2378	10,926.87 71
<b>Total</b>	<b>4.3734</b>	<b>17.8646</b>	<b>43.5177</b>	<b>0.1847</b>	<b>15.6845</b>	<b>0.1733</b>	<b>15.8578</b>	<b>4.2248</b>	<b>0.1637</b>	<b>4.3885</b>		<b>19,146.40 71</b>	<b>19,146.40 71</b>	<b>0.4388</b>	<b>1.4620</b>	<b>19,593.06 44</b>



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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4926	15.6075	6.2835	0.0758	2.8637	0.1152	2.9789	0.8246	0.1102	0.9348		8,131.214 6	8,131.214 6	0.2047	1.1992	8,493.692 8
Worker	3.6200	1.9293	34.6941	0.1040	12.8208	0.0544	12.8752	3.4001	0.0501	3.4502		10,507.47 40	10,507.47 40	0.2059	0.2232	10,579.14 55
<b>Total</b>	<b>4.1126</b>	<b>17.5368</b>	<b>40.9776</b>	<b>0.1798</b>	<b>15.6845</b>	<b>0.1696</b>	<b>15.8541</b>	<b>4.2247</b>	<b>0.1603</b>	<b>4.3850</b>		<b>18,638.68 86</b>	<b>18,638.68 86</b>	<b>0.4106</b>	<b>1.4224</b>	<b>19,072.83 83</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4926	15.6075	6.2835	0.0758	2.8637	0.1152	2.9789	0.8246	0.1102	0.9348		8,131.214 6	8,131.214 6	0.2047	1.1992	8,493.692 8
Worker	3.6200	1.9293	34.6941	0.1040	12.8208	0.0544	12.8752	3.4001	0.0501	3.4502		10,507.47 40	10,507.47 40	0.2059	0.2232	10,579.14 55
<b>Total</b>	<b>4.1126</b>	<b>17.5368</b>	<b>40.9776</b>	<b>0.1798</b>	<b>15.6845</b>	<b>0.1696</b>	<b>15.8541</b>	<b>4.2247</b>	<b>0.1603</b>	<b>4.3850</b>		<b>18,638.68 86</b>	<b>18,638.68 86</b>	<b>0.4106</b>	<b>1.4224</b>	<b>19,072.83 83</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4851	15.4900	6.2111	0.0743	2.8637	0.1144	2.9781	0.8246	0.1094	0.9340		7,959.249 8	7,959.249 8	0.1979	1.1733	8,313.849 2
Worker	3.3894	1.7508	32.5959	0.1009	12.8208	0.0511	12.8719	3.4001	0.0471	3.4472		10,199.28 89	10,199.28 89	0.1871	0.2110	10,266.85 49
<b>Total</b>	<b>3.8745</b>	<b>17.2408</b>	<b>38.8070</b>	<b>0.1752</b>	<b>15.6845</b>	<b>0.1655</b>	<b>15.8500</b>	<b>4.2247</b>	<b>0.1565</b>	<b>4.3812</b>		<b>18,158.53 87</b>	<b>18,158.53 87</b>	<b>0.3850</b>	<b>1.3844</b>	<b>18,580.70 41</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4851	15.4900	6.2111	0.0743	2.8637	0.1144	2.9781	0.8246	0.1094	0.9340		7,959.249 8	7,959.249 8	0.1979	1.1733	8,313.849 2
Worker	3.3894	1.7508	32.5959	0.1009	12.8208	0.0511	12.8719	3.4001	0.0471	3.4472		10,199.28 89	10,199.28 89	0.1871	0.2110	10,266.85 49
<b>Total</b>	<b>3.8745</b>	<b>17.2408</b>	<b>38.8070</b>	<b>0.1752</b>	<b>15.6845</b>	<b>0.1655</b>	<b>15.8500</b>	<b>4.2247</b>	<b>0.1565</b>	<b>4.3812</b>		<b>18,158.53 87</b>	<b>18,158.53 87</b>	<b>0.3850</b>	<b>1.3844</b>	<b>18,580.70 41</b>

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

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

**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	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4790	15.3999	6.1538	0.0727	2.8637	0.1137	2.9774	0.8246	0.1088	0.9334		7,795.019 3	7,795.019 3	0.1925	1.1483	8,142.028 6
Worker	3.1774	1.6010	30.8446	0.0982	12.8208	0.0477	12.8685	3.4001	0.0439	3.4440		9,925.559 8	9,925.559 8	0.1710	0.2009	9,989.691 8
<b>Total</b>	<b>3.6564</b>	<b>17.0009</b>	<b>36.9984</b>	<b>0.1709</b>	<b>15.6844</b>	<b>0.1615</b>	<b>15.8459</b>	<b>4.2247</b>	<b>0.1527</b>	<b>4.3774</b>		<b>17,720.57 91</b>	<b>17,720.57 91</b>	<b>0.3634</b>	<b>1.3492</b>	<b>18,131.72 04</b>

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

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

**3.4 Building Construction - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4790	15.3999	6.1538	0.0727	2.8637	0.1137	2.9774	0.8246	0.1088	0.9334		7,795.019 3	7,795.019 3	0.1925	1.1483	8,142.028 6
Worker	3.1774	1.6010	30.8446	0.0982	12.8208	0.0477	12.8685	3.4001	0.0439	3.4440		9,925.559 8	9,925.559 8	0.1710	0.2009	9,989.691 8
<b>Total</b>	<b>3.6564</b>	<b>17.0009</b>	<b>36.9984</b>	<b>0.1709</b>	<b>15.6844</b>	<b>0.1615</b>	<b>15.8459</b>	<b>4.2247</b>	<b>0.1527</b>	<b>4.3774</b>		<b>17,720.57 91</b>	<b>17,720.57 91</b>	<b>0.3634</b>	<b>1.3492</b>	<b>18,131.72 04</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411
<b>Total</b>	<b>0.0416</b>	<b>0.0209</b>	<b>0.4034</b>	<b>1.2800e-003</b>	<b>0.1677</b>	<b>6.2000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.7000e-004</b>	<b>0.0450</b>		<b>129.8024</b>	<b>129.8024</b>	<b>2.2400e-003</b>	<b>2.6300e-003</b>	<b>130.6411</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9152</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411
<b>Total</b>	<b>0.0416</b>	<b>0.0209</b>	<b>0.4034</b>	<b>1.2800e-003</b>	<b>0.1677</b>	<b>6.2000e-004</b>	<b>0.1683</b>	<b>0.0445</b>	<b>5.7000e-004</b>	<b>0.0450</b>		<b>129.8024</b>	<b>129.8024</b>	<b>2.2400e-003</b>	<b>2.6300e-003</b>	<b>130.6411</b>



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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.0408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>12.2117</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6344	0.3196	6.1582	0.0196	2.5597	9.5300e-003	2.5692	0.6788	8.7700e-003	0.6876		1,981.6506	1,981.6506	0.0341	0.0401	1,994.4546
<b>Total</b>	<b>0.6344</b>	<b>0.3196</b>	<b>6.1582</b>	<b>0.0196</b>	<b>2.5597</b>	<b>9.5300e-003</b>	<b>2.5692</b>	<b>0.6788</b>	<b>8.7700e-003</b>	<b>0.6876</b>		<b>1,981.6506</b>	<b>1,981.6506</b>	<b>0.0341</b>	<b>0.0401</b>	<b>1,994.4546</b>

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

**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 On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.0408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>12.2117</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.6344	0.3196	6.1582	0.0196	2.5597	9.5300e-003	2.5692	0.6788	8.7700e-003	0.6876		1,981.6506	1,981.6506	0.0341	0.0401	1,994.4546
<b>Total</b>	<b>0.6344</b>	<b>0.3196</b>	<b>6.1582</b>	<b>0.0196</b>	<b>2.5597</b>	<b>9.5300e-003</b>	<b>2.5692</b>	<b>0.6788</b>	<b>8.7700e-003</b>	<b>0.6876</b>		<b>1,981.6506</b>	<b>1,981.6506</b>	<b>0.0341</b>	<b>0.0401</b>	<b>1,994.4546</b>

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

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4098	0.5263	4.0034	8.9200e-003	0.8949	6.7200e-003	0.9016	0.2387	6.2900e-003	0.2450		909.1125	909.1125	0.0473	0.0416	922.6834
Unmitigated	0.4098	0.5263	4.0034	8.9200e-003	0.8949	6.7200e-003	0.9016	0.2387	6.2900e-003	0.2450		909.1125	909.1125	0.0473	0.0416	922.6834

**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
<b>Total</b>	<b>122.72</b>	<b>124.02</b>	<b>111.15</b>	<b>414,339</b>	<b>414,339</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
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**

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

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

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**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314
NaturalGas Unmitigated	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314

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

**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	lb/day										lb/day					
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
Single Family Housing	1007.48	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314
<b>Total</b>		<b>0.0109</b>	<b>0.0929</b>	<b>0.0395</b>	<b>5.9000e-004</b>		<b>7.5100e-003</b>	<b>7.5100e-003</b>		<b>7.5100e-003</b>	<b>7.5100e-003</b>		<b>118.5271</b>	<b>118.5271</b>	<b>2.2700e-003</b>	<b>2.1700e-003</b>	<b>119.2314</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Single Family Housing	1.00748	0.0109	0.0929	0.0395	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003		118.5271	118.5271	2.2700e-003	2.1700e-003	119.2314
<b>Total</b>		<b>0.0109</b>	<b>0.0929</b>	<b>0.0395</b>	<b>5.9000e-004</b>		<b>7.5100e-003</b>	<b>7.5100e-003</b>		<b>7.5100e-003</b>	<b>7.5100e-003</b>		<b>118.5271</b>	<b>118.5271</b>	<b>2.2700e-003</b>	<b>2.1700e-003</b>	<b>119.2314</b>

**6.0 Area Detail**

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

**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	lb/day										lb/day					
Mitigated	5.1137	0.2821	7.6896	0.0169		0.9990	0.9990		0.9990	0.9990	121.7699	235.9449	357.7148	0.3650	8.2600e-003	369.3035
Unmitigated	5.1137	0.2821	7.6896	0.0169		0.9990	0.9990		0.9990	0.9990	121.7699	235.9449	357.7148	0.3650	8.2600e-003	369.3035

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

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.4065	0.2697	6.6112	0.0169		0.9931	0.9931		0.9931	0.9931	121.7699	234.0000	355.7699	0.3631	8.2600e-003	367.3114
Landscaping	0.0328	0.0124	1.0784	6.0000e-005		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003		1.9449	1.9449	1.8900e-003		1.9921
<b>Total</b>	<b>5.1137</b>	<b>0.2821</b>	<b>7.6896</b>	<b>0.0169</b>		<b>0.9990</b>	<b>0.9990</b>		<b>0.9990</b>	<b>0.9990</b>	<b>121.7699</b>	<b>235.9449</b>	<b>357.7148</b>	<b>0.3650</b>	<b>8.2600e-003</b>	<b>369.3035</b>

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

**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	lb/day										lb/day					
Architectural Coating	0.2474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4270					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.4065	0.2697	6.6112	0.0169		0.9931	0.9931		0.9931	0.9931	121.7699	234.0000	355.7699	0.3631	8.2600e-003	367.3114
Landscaping	0.0328	0.0124	1.0784	6.0000e-005		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003		1.9449	1.9449	1.8900e-003		1.9921
<b>Total</b>	<b>5.1137</b>	<b>0.2821</b>	<b>7.6896</b>	<b>0.0169</b>		<b>0.9990</b>	<b>0.9990</b>		<b>0.9990</b>	<b>0.9990</b>	<b>121.7699</b>	<b>235.9449</b>	<b>357.7148</b>	<b>0.3650</b>	<b>8.2600e-003</b>	<b>369.3035</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



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

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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