

Guadalupe Manor - Orange County, Summer

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

**Guadalupe Manor
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Retirement Community	29.00	Dwelling Unit	0.21	13,500.00	83

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - site size 2.1 acres, only portion of site to be disturbed, 13,500 sf floor area
- Construction Phase -
- Vehicle Trips - 3.24 trips per unit per traffic analysis
- Construction Off-road Equipment Mitigation -
- Area Mitigation -
- Grading -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	29,000.00	13,500.00
tblLandUse	LotAcreage	5.80	0.21
tblVehicleTrips	ST_TR	2.03	3.24

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tblVehicleTrips	SU_TR	1.95	3.24
tblVehicleTrips	WD_TR	2.40	3.24

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	17.0864	9.7427	7.7075	0.0148	5.4014	0.4005	5.8019	2.5923	0.3685	2.9608	0.0000	1,438.5090	1,438.5090	0.4429	0.0125	1,450.0402
Maximum	17.0864	9.7427	7.7075	0.0148	5.4014	0.4005	5.8019	2.5923	0.3685	2.9608	0.0000	1,438.5090	1,438.5090	0.4429	0.0125	1,450.0402

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	17.0864	9.7427	7.7075	0.0148	2.4798	0.4005	2.8803	1.1796	0.3685	1.5481	0.0000	1,438.5090	1,438.5090	0.4429	0.0125	1,450.0402
Maximum	17.0864	9.7427	7.7075	0.0148	2.4798	0.4005	2.8803	1.1796	0.3685	1.5481	0.0000	1,438.5090	1,438.5090	0.4429	0.0125	1,450.0402

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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	54.09	0.00	50.36	54.50	0.00	47.71	0.00	0.00	0.00	0.00	0.00	0.00

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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	lb/day										lb/day					
Area	7.9614	0.6293	17.1395	0.0378		2.2285	2.2285		2.2285	2.2285	271.6406	526.3080	797.9487	0.8142	0.0184	823.7984
Energy	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753
Mobile	0.2546	0.2587	2.5796	6.1900e-003	0.6765	4.1200e-003	0.6807	0.1803	3.8300e-003	0.1842		629.9123	629.9123	0.0362	0.0245	638.1164
Total	8.2267	0.9789	19.7579	0.0445	0.6765	2.2400	2.9165	0.1803	2.2397	2.4200	271.6406	1,272.3057	1,543.9463	0.8527	0.0451	1,578.6900

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	0.4130	0.4605	2.5758	2.8900e-003		0.0483	0.0483		0.0483	0.0483	0.0000	557.0139	557.0139	0.0147	0.0101	560.4017
Energy	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753
Mobile	0.2546	0.2587	2.5796	6.1900e-003	0.6765	4.1200e-003	0.6807	0.1803	3.8300e-003	0.1842		629.9123	629.9123	0.0362	0.0245	638.1164
Total	0.6783	0.8102	5.1941	9.6600e-003	0.6765	0.0597	0.7363	0.1803	0.0594	0.2398	0.0000	1,303.0116	1,303.0116	0.0532	0.0368	1,315.2934

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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	91.75	17.24	73.71	78.30	0.00	97.33	74.76	0.00	97.35	90.09	100.00	-2.41	15.61	93.76	18.44	16.68

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/12/2024	5	10	
2	Grading	Grading	1/13/2024	1/16/2024	5	2	
3	Building Construction	Building Construction	1/17/2024	6/4/2024	5	100	
4	Paving	Paving	6/5/2024	6/11/2024	5	5	
5	Architectural Coating	Architectural Coating	6/12/2024	6/18/2024	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 27,338; Residential Outdoor: 9,113; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41

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Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	21.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	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 Demolition - 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	0.6156	5.4776	7.3949	0.0120		0.2504	0.2504		0.2392	0.2392		1,148.6874	1,148.6874	0.2080		1,153.8870
Total	0.6156	5.4776	7.3949	0.0120		0.2504	0.2504		0.2392	0.2392		1,148.6874	1,148.6874	0.2080		1,153.8870

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	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300
Total	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300

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3.2 Demolition - 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	0.6156	5.4776	7.3949	0.0120		0.2504	0.2504		0.2392	0.2392	0.0000	1,148.6874	1,148.6874	0.2080		1,153.8870
Total	0.6156	5.4776	7.3949	0.0120		0.2504	0.2504		0.2392	0.2392	0.0000	1,148.6874	1,148.6874	0.2080		1,153.8870

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	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300
Total	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300

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3.3 Grading - 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					
Fugitive Dust					5.3119	0.0000	5.3119	2.5686	0.0000	2.5686			0.0000			0.0000
Off-Road	0.9132	9.7297	5.5468	0.0141		0.4001	0.4001		0.3681	0.3681		1,364.662 3	1,364.662 3	0.4414		1,375.696 2
Total	0.9132	9.7297	5.5468	0.0141	5.3119	0.4001	5.7120	2.5686	0.3681	2.9367		1,364.662 3	1,364.662 3	0.4414		1,375.696 2

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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440

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3.3 Grading - 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					
Fugitive Dust					2.3904	0.0000	2.3904	1.1559	0.0000	1.1559			0.0000			0.0000
Off-Road	0.9132	9.7297	5.5468	0.0141		0.4001	0.4001		0.3681	0.3681	0.0000	1,364.662 3	1,364.662 3	0.4414		1,375.696 2
Total	0.9132	9.7297	5.5468	0.0141	2.3904	0.4001	2.7905	1.1559	0.3681	1.5240	0.0000	1,364.662 3	1,364.662 3	0.4414		1,375.696 2

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	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440
Total	0.0212	0.0129	0.2273	7.3000e-004	0.0894	4.3000e-004	0.0899	0.0237	4.0000e-004	0.0241		73.8468	73.8468	1.5200e-003	1.5400e-003	74.3440

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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	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177

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	2.9800e-003	0.1048	0.0433	5.3000e-004	0.0192	5.6000e-004	0.0198	5.5200e-003	5.4000e-004	6.0600e-003		58.3159	58.3159	3.5600e-003	8.4000e-003	60.9090
Worker	0.0556	0.0340	0.5967	1.9200e-003	0.2347	1.1400e-003	0.2359	0.0623	1.0500e-003	0.0633		193.8478	193.8478	3.9900e-003	4.0500e-003	195.1530
Total	0.0586	0.1388	0.6400	2.4500e-003	0.2539	1.7000e-003	0.2556	0.0678	1.5900e-003	0.0694		252.1637	252.1637	7.5500e-003	0.0125	256.0620

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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	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177

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	2.9800e-003	0.1048	0.0433	5.3000e-004	0.0192	5.6000e-004	0.0198	5.5200e-003	5.4000e-004	6.0600e-003		58.3159	58.3159	3.5600e-003	8.4000e-003	60.9090
Worker	0.0556	0.0340	0.5967	1.9200e-003	0.2347	1.1400e-003	0.2359	0.0623	1.0500e-003	0.0633		193.8478	193.8478	3.9900e-003	4.0500e-003	195.1530
Total	0.0586	0.1388	0.6400	2.4500e-003	0.2539	1.7000e-003	0.2556	0.0678	1.5900e-003	0.0694		252.1637	252.1637	7.5500e-003	0.0125	256.0620

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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 - 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	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858

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	0.0476	0.0291	0.5115	1.6400e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543		166.1553	166.1553	3.4200e-003	3.4700e-003	167.2740
Total	0.0476	0.0291	0.5115	1.6400e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543		166.1553	166.1553	3.4200e-003	3.4700e-003	167.2740

Guadalupe Manor - Orange County, Summer

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

3.5 Paving - 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	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858

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	0.0476	0.0291	0.5115	1.6400e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543		166.1553	166.1553	3.4200e-003	3.4700e-003	167.2740
Total	0.0476	0.0291	0.5115	1.6400e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543		166.1553	166.1553	3.4200e-003	3.4700e-003	167.2740

Guadalupe Manor - Orange 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 - 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					
Archit. Coating	16.8950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	17.0758	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.0106	6.4700e-003	0.1137	3.7000e-004	0.0447	2.2000e-004	0.0449	0.0119	2.0000e-004	0.0121		36.9234	36.9234	7.6000e-004	7.7000e-004	37.1720
Total	0.0106	6.4700e-003	0.1137	3.7000e-004	0.0447	2.2000e-004	0.0449	0.0119	2.0000e-004	0.0121		36.9234	36.9234	7.6000e-004	7.7000e-004	37.1720

Guadalupe Manor - Orange 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 - 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					
Archit. Coating	16.8950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	17.0758	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.0106	6.4700e-003	0.1137	3.7000e-004	0.0447	2.2000e-004	0.0449	0.0119	2.0000e-004	0.0121		36.9234	36.9234	7.6000e-004	7.7000e-004	37.1720
Total	0.0106	6.4700e-003	0.1137	3.7000e-004	0.0447	2.2000e-004	0.0449	0.0119	2.0000e-004	0.0121		36.9234	36.9234	7.6000e-004	7.7000e-004	37.1720

Guadalupe Manor - Orange 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	0.2546	0.2587	2.5796	6.1900e-003	0.6765	4.1200e-003	0.6807	0.1803	3.8300e-003	0.1842		629.9123	629.9123	0.0362	0.0245	638.1164
Unmitigated	0.2546	0.2587	2.5796	6.1900e-003	0.6765	4.1200e-003	0.6807	0.1803	3.8300e-003	0.1842		629.9123	629.9123	0.0362	0.0245	638.1164

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Retirement Community	93.96	93.96	93.96	321,076	321,076
Total	93.96	93.96	93.96	321,076	321,076

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
Retirement Community	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
Retirement Community	0.546200	0.059546	0.185910	0.127866	0.024295	0.006605	0.014499	0.004906	0.000657	0.000381	0.024552	0.000713	0.003869

Guadalupe Manor - Orange County, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753
NaturalGas Unmitigated	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753

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					
Retirement Community	986.726	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753
Total		0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753

Guadalupe Manor - Orange 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 - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Retirement Community	0.986726	0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753
Total		0.0106	0.0909	0.0387	5.8000e-004		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003		116.0854	116.0854	2.2200e-003	2.1300e-003	116.7753

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4130	0.4605	2.5758	2.8900e-003		0.0483	0.0483		0.0483	0.0483	0.0000	557.0139	557.0139	0.0147	0.0101	560.4017
Unmitigated	7.9614	0.6293	17.1395	0.0378		2.2285	2.2285		2.2285	2.2285	271.6406	526.3080	797.9487	0.8142	0.0184	823.7984

Guadalupe Manor - Orange 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	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.5990	0.6017	14.7480	0.0376		2.2153	2.2153		2.2153	2.2153	271.6406	522.0000	793.6406	0.8101	0.0184	819.3870
Landscaping	0.0719	0.0276	2.3915	1.3000e-004		0.0133	0.0133		0.0133	0.0133		4.3080	4.3080	4.1300e-003		4.4114
Total	7.9614	0.6293	17.1395	0.0378		2.2285	2.2285		2.2285	2.2285	271.6406	526.3080	797.9487	0.8142	0.0184	823.7983

Guadalupe Manor - Orange 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	0.0231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0507	0.4330	0.1842	2.7600e-003		0.0350	0.0350		0.0350	0.0350	0.0000	552.7059	552.7059	0.0106	0.0101	555.9903
Landscaping	0.0719	0.0276	2.3915	1.3000e-004		0.0133	0.0133		0.0133	0.0133		4.3080	4.3080	4.1300e-003		4.4114
Total	0.4130	0.4605	2.5758	2.8900e-003		0.0483	0.0483		0.0483	0.0483	0.0000	557.0139	557.0139	0.0147	0.0101	560.4017

7.0 Water Detail

7.1 Mitigation Measures Water

Guadalupe Manor - Orange 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

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
