

APPENDIX A

Air Quality/GHG/Energy Data

Paseo de Colinas Townhomes Project - Orange County, Annual

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

**Paseo de Colinas Townhomes Project
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	35.00	Space	0.70	14,000.00	0
City Park	1.18	Acre	1.18	51,373.00	0
Condo/Townhouse High Rise	38.00	Dwelling Unit	0.59	38,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Townhomes 38 DU (garage included). 35 Guest parking spaces. Total 51,373 sf open space. Total lot acreage is 2.47 acres.

Construction Phase - Per Construction Questionnaire

Off-road Equipment -

Trips and VMT -

Demolition - Per Construction Questionnaire

Grading -

Architectural Coating -

Vehicle Trips - Per Traffic Study

Area Coating -

Paseo de Colinas Townhomes Project - Orange County, Annual

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

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanent wood-burning furnaces in new constructions. Thus, only natural gas hearth would occur.

Waste Mitigation - Per AB 341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	220.00	444.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblLandUse	LandUseSquareFeet	51,400.80	51,373.00
tblLandUse	LotAcreage	0.32	0.70
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	5.44	7.32

2.0 Emissions Summary

Paseo de Colinas Townhomes Project - Orange County, Annual

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

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	0.2101	1.7533	1.8305	3.6800e-003	0.2312	0.0771	0.3083	0.0939	0.0729	0.1668	0.0000	318.9603	318.9603	0.0618	4.4900e-003	321.8430
2024	0.2996	1.7876	2.1246	4.3800e-003	0.1219	0.0724	0.1943	0.0322	0.0693	0.1015	0.0000	377.0295	377.0295	0.0545	6.5000e-003	380.3286
2025	0.0866	0.2151	0.2878	6.0000e-004	0.0378	8.2100e-003	0.0460	9.6800e-003	7.8900e-003	0.0176	0.0000	52.5312	52.5312	6.6200e-003	8.5000e-004	52.9515
Maximum	0.2996	1.7876	2.1246	4.3800e-003	0.2312	0.0771	0.3083	0.0939	0.0729	0.1668	0.0000	377.0295	377.0295	0.0618	6.5000e-003	380.3286

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2101	1.7533	1.8305	3.6800e-003	0.1243	0.0771	0.2015	0.0452	0.0729	0.1181	0.0000	318.9600	318.9600	0.0618	4.4900e-003	321.8426
2024	0.2996	1.7876	2.1246	4.3800e-003	0.1219	0.0724	0.1943	0.0322	0.0693	0.1015	0.0000	377.0292	377.0292	0.0545	6.5000e-003	380.3283
2025	0.0866	0.2151	0.2878	6.0000e-004	0.0378	8.2100e-003	0.0460	9.6800e-003	7.8900e-003	0.0176	0.0000	52.5312	52.5312	6.6200e-003	8.5000e-004	52.9514
Maximum	0.2996	1.7876	2.1246	4.3800e-003	0.1243	0.0771	0.2015	0.0452	0.0729	0.1181	0.0000	377.0292	377.0292	0.0618	6.5000e-003	380.3283

Paseo de Colinas Townhomes Project - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	27.33	0.00	19.48	35.90	0.00	17.05	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)
1	2-1-2023	4-30-2023	0.6147	0.6147
2	5-1-2023	7-31-2023	0.4724	0.4724
3	8-1-2023	10-31-2023	0.5306	0.5306
4	11-1-2023	1-31-2024	0.5212	0.5212
5	2-1-2024	4-30-2024	0.4894	0.4894
6	5-1-2024	7-31-2024	0.4992	0.4992
7	8-1-2024	10-31-2024	0.4998	0.4998
8	11-1-2024	1-31-2025	0.6399	0.6399
9	2-1-2025	4-30-2025	0.0835	0.0835
		Highest	0.6399	0.6399

Paseo de Colinas Townhomes Project - Orange County, Annual

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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	0.2871	0.0144	0.6335	6.4000e-004		0.0385	0.0385		0.0385	0.0385	4.0363	8.3975	12.4338	0.0127	2.7000e-004	12.8317
Energy	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	61.9093	61.9093	2.8400e-003	7.1000e-004	62.1904
Mobile	0.1295	0.1443	1.3367	3.1300e-003	0.3581	2.1500e-003	0.3602	0.0956	2.0000e-003	0.0976	0.0000	296.5787	296.5787	0.0176	0.0121	300.6372
Waste						0.0000	0.0000		0.0000	0.0000	3.5686	0.0000	3.5686	0.2109	0.0000	8.8410
Water						0.0000	0.0000		0.0000	0.0000	0.7855	15.9693	16.7548	0.0817	2.0200e-003	19.3990
Total	0.4188	0.1782	1.9786	3.8900e-003	0.3581	0.0422	0.4003	0.0956	0.0420	0.1376	8.3904	382.8548	391.2452	0.3257	0.0151	403.8994

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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	0.1634	0.0116	0.3950	7.0000e-005		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	8.8537	8.8537	7.7000e-004	1.5000e-004	8.9179
Energy	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	61.9093	61.9093	2.8400e-003	7.1000e-004	62.1904
Mobile	0.1295	0.1443	1.3367	3.1300e-003	0.3581	2.1500e-003	0.3602	0.0956	2.0000e-003	0.0976	0.0000	296.5787	296.5787	0.0176	0.0121	300.6372
Waste						0.0000	0.0000		0.0000	0.0000	1.7843	0.0000	1.7843	0.1055	0.0000	4.4205
Water						0.0000	0.0000		0.0000	0.0000	0.7855	15.9693	16.7548	0.0817	2.0200e-003	19.3990
Total	0.2952	0.1754	1.7400	3.3200e-003	0.3581	6.4800e-003	0.3646	0.0956	6.3300e-003	0.1019	2.5698	383.3111	385.8808	0.2083	0.0150	395.5650

	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	29.52	1.55	12.06	14.65	0.00	84.64	8.92	0.00	84.94	25.95	69.37	-0.12	1.37	36.03	0.79	2.06

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	2/1/2023	3/2/2023	5	22	
2	Grading	Grading	3/3/2023	5/3/2023	5	44	
3	Paving	Paving	4/1/2023	6/1/2023	5	44	

Paseo de Colinas Townhomes Project - Orange County, Annual

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4	Building Construction	Building Construction	6/2/2023	2/12/2025	5	444
5	Architectural Coating	Architectural Coating	11/13/2024	2/12/2025	5	66

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44

Acres of Paving: 0.7

Residential Indoor: 76,950; Residential Outdoor: 25,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Paseo de Colinas Townhomes Project - Orange County, Annual

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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
Demolition	5	13.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	15.00	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	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.2 Demolition - 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					0.0139	0.0000	0.0139	2.1100e-003	0.0000	2.1100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1575	0.1480	2.7000e-004		7.4400e-003	7.4400e-003		6.9600e-003	6.9600e-003	0.0000	23.1952	23.1952	5.8800e-003	0.0000	23.3422
Total	0.0162	0.1575	0.1480	2.7000e-004	0.0139	7.4400e-003	0.0214	2.1100e-003	6.9600e-003	9.0700e-003	0.0000	23.1952	23.1952	5.8800e-003	0.0000	23.3422

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	1.3000e-004	8.0900e-003	2.6500e-003	4.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.5000e-004	0.0000	3.7437	3.7437	3.8000e-004	6.0000e-004	3.9321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	4.1700e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.2086	1.2086	3.0000e-005	3.0000e-005	1.2178
Total	5.3000e-004	8.3800e-003	6.8200e-003	5.0000e-005	2.6800e-003	6.0000e-005	2.7400e-003	7.2000e-004	6.0000e-005	7.7000e-004	0.0000	4.9522	4.9522	4.1000e-004	6.3000e-004	5.1499

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1500e-003	0.0000	5.1500e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0162	0.1575	0.1480	2.7000e-004		7.4400e-003	7.4400e-003		6.9600e-003	6.9600e-003	0.0000	23.1952	23.1952	5.8800e-003	0.0000	23.3422
Total	0.0162	0.1575	0.1480	2.7000e-004	5.1500e-003	7.4400e-003	0.0126	7.8000e-004	6.9600e-003	7.7400e-003	0.0000	23.1952	23.1952	5.8800e-003	0.0000	23.3422

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	1.3000e-004	8.0900e-003	2.6500e-003	4.0000e-005	1.1100e-003	5.0000e-005	1.1600e-003	3.0000e-004	5.0000e-005	3.5000e-004	0.0000	3.7437	3.7437	3.8000e-004	6.0000e-004	3.9321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	4.1700e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.2000e-004	0.0000	1.2086	1.2086	3.0000e-005	3.0000e-005	1.2178
Total	5.3000e-004	8.3800e-003	6.8200e-003	5.0000e-005	2.6800e-003	6.0000e-005	2.7400e-003	7.2000e-004	6.0000e-005	7.7000e-004	0.0000	4.9522	4.9522	4.1000e-004	6.3000e-004	5.1499

Paseo de Colinas Townhomes Project - Orange County, Annual

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

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					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3183	0.1915	4.5000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	39.8286	39.8286	0.0129	0.0000	40.1506
Total	0.0293	0.3183	0.1915	4.5000e-004	0.1558	0.0133	0.1691	0.0753	0.0122	0.0876	0.0000	39.8286	39.8286	0.0129	0.0000	40.1506

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	6.2000e-004	4.4000e-004	6.4200e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8593	1.8593	4.0000e-005	4.0000e-005	1.8736
Total	6.2000e-004	4.4000e-004	6.4200e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8593	1.8593	4.0000e-005	4.0000e-005	1.8736

Paseo de Colinas Townhomes Project - Orange County, Annual

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0577	0.0000	0.0577	0.0279	0.0000	0.0279	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.3183	0.1915	4.5000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	39.8286	39.8286	0.0129	0.0000	40.1506
Total	0.0293	0.3183	0.1915	4.5000e-004	0.0577	0.0133	0.0710	0.0279	0.0122	0.0402	0.0000	39.8286	39.8286	0.0129	0.0000	40.1506

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	6.2000e-004	4.4000e-004	6.4200e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8593	1.8593	4.0000e-005	4.0000e-005	1.8736
Total	6.2000e-004	4.4000e-004	6.4200e-003	2.0000e-005	2.4200e-003	1.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8593	1.8593	4.0000e-005	4.0000e-005	1.8736

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.4 Paving - 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	0.0194	0.1894	0.2571	3.9000e-004		9.5400e-003	9.5400e-003		8.8100e-003	8.8100e-003	0.0000	34.1281	34.1281	0.0108	0.0000	34.3986
Paving	9.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0203	0.1894	0.2571	3.9000e-004		9.5400e-003	9.5400e-003		8.8100e-003	8.8100e-003	0.0000	34.1281	34.1281	0.0108	0.0000	34.3986

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	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0194	0.1894	0.2571	3.9000e-004		9.5400e-003	9.5400e-003		8.8100e-003	8.8100e-003	0.0000	34.1281	34.1281	0.0108	0.0000	34.3985
Paving	9.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0203	0.1894	0.2571	3.9000e-004		9.5400e-003	9.5400e-003		8.8100e-003	8.8100e-003	0.0000	34.1281	34.1281	0.0108	0.0000	34.3985

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	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104
Total	9.3000e-004	6.7000e-004	9.6300e-003	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.7890	2.7890	6.0000e-005	7.0000e-005	2.8104

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	0.1294	1.0286	1.0732	1.8900e-003		0.0463	0.0463		0.0444	0.0444	0.0000	156.8151	156.8151	0.0297	0.0000	157.5565
Total	0.1294	1.0286	1.0732	1.8900e-003		0.0463	0.0463		0.0444	0.0444	0.0000	156.8151	156.8151	0.0297	0.0000	157.5565

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	1.1200e-003	0.0416	0.0167	2.0000e-004	7.1400e-003	2.0000e-004	7.3400e-003	2.0600e-003	2.0000e-004	2.2500e-003	0.0000	20.2983	20.2983	1.2100e-003	2.9100e-003	21.1970
Worker	0.0117	8.3900e-003	0.1211	3.8000e-004	0.0456	2.4000e-004	0.0458	0.0121	2.2000e-004	0.0123	0.0000	35.0945	35.0945	8.1000e-004	8.4000e-004	35.3642
Total	0.0129	0.0500	0.1378	5.8000e-004	0.0527	4.4000e-004	0.0532	0.0142	4.2000e-004	0.0146	0.0000	55.3928	55.3928	2.0200e-003	3.7500e-003	56.5612

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	tons/yr										MT/yr					
Off-Road	0.1294	1.0286	1.0732	1.8900e-003		0.0463	0.0463		0.0444	0.0444	0.0000	156.8149	156.8149	0.0297	0.0000	157.5563
Total	0.1294	1.0286	1.0732	1.8900e-003		0.0463	0.0463		0.0444	0.0444	0.0000	156.8149	156.8149	0.0297	0.0000	157.5563

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	1.1200e-003	0.0416	0.0167	2.0000e-004	7.1400e-003	2.0000e-004	7.3400e-003	2.0600e-003	2.0000e-004	2.2500e-003	0.0000	20.2983	20.2983	1.2100e-003	2.9100e-003	21.1970
Worker	0.0117	8.3900e-003	0.1211	3.8000e-004	0.0456	2.4000e-004	0.0458	0.0121	2.2000e-004	0.0123	0.0000	35.0945	35.0945	8.1000e-004	8.4000e-004	35.3642
Total	0.0129	0.0500	0.1378	5.8000e-004	0.0527	4.4000e-004	0.0532	0.0142	4.2000e-004	0.0146	0.0000	55.3928	55.3928	2.0200e-003	3.7500e-003	56.5612

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1052	272.1052	0.0507	0.0000	273.3722
Total	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1052	272.1052	0.0507	0.0000	273.3722

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	1.9200e-003	0.0719	0.0288	3.5000e-004	0.0124	3.7000e-004	0.0128	3.5700e-003	3.5000e-004	3.9300e-003	0.0000	34.6737	34.6737	2.1100e-003	5.0000e-003	36.2165
Worker	0.0192	0.0131	0.1961	6.4000e-004	0.0791	3.9000e-004	0.0795	0.0210	3.6000e-004	0.0214	0.0000	59.4310	59.4310	1.2700e-003	1.3600e-003	59.8674
Total	0.0211	0.0850	0.2248	9.9000e-004	0.0915	7.6000e-004	0.0922	0.0246	7.1000e-004	0.0253	0.0000	94.1046	94.1046	3.3800e-003	6.3600e-003	96.0839

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	tons/yr										MT/yr					
Off-Road	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1049	272.1049	0.0507	0.0000	273.3719
Total	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1049	272.1049	0.0507	0.0000	273.3719

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	1.9200e-003	0.0719	0.0288	3.5000e-004	0.0124	3.7000e-004	0.0128	3.5700e-003	3.5000e-004	3.9300e-003	0.0000	34.6737	34.6737	2.1100e-003	5.0000e-003	36.2165
Worker	0.0192	0.0131	0.1961	6.4000e-004	0.0791	3.9000e-004	0.0795	0.0210	3.6000e-004	0.0214	0.0000	59.4310	59.4310	1.2700e-003	1.3600e-003	59.8674
Total	0.0211	0.0850	0.2248	9.9000e-004	0.0915	7.6000e-004	0.0922	0.0246	7.1000e-004	0.0253	0.0000	94.1046	94.1046	3.3800e-003	6.3600e-003	96.0839

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	0.0231	0.1864	0.2171	3.9000e-004		7.2800e-003	7.2800e-003		6.9700e-003	6.9700e-003	0.0000	32.1990	32.1990	5.9100e-003	0.0000	32.3466
Total	0.0231	0.1864	0.2171	3.9000e-004		7.2800e-003	7.2800e-003		6.9700e-003	6.9700e-003	0.0000	32.1990	32.1990	5.9100e-003	0.0000	32.3466

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	2.2000e-004	8.4700e-003	3.3900e-003	4.0000e-005	1.4600e-003	4.0000e-005	1.5100e-003	4.2000e-004	4.0000e-005	4.6000e-004	0.0000	4.0259	4.0259	2.5000e-004	5.8000e-004	4.2059
Worker	2.1400e-003	1.4000e-003	0.0218	7.0000e-005	9.3600e-003	4.0000e-005	9.4000e-003	2.4900e-003	4.0000e-005	2.5300e-003	0.0000	6.8605	6.8605	1.4000e-004	1.5000e-004	6.9089
Total	2.3600e-003	9.8700e-003	0.0252	1.1000e-004	0.0108	8.0000e-005	0.0109	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	10.8863	10.8863	3.9000e-004	7.3000e-004	11.1148

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.5 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	tons/yr										MT/yr					
Off-Road	0.0231	0.1864	0.2171	3.9000e-004		7.2800e-003	7.2800e-003		6.9700e-003	6.9700e-003	0.0000	32.1989	32.1989	5.9100e-003	0.0000	32.3466
Total	0.0231	0.1864	0.2171	3.9000e-004		7.2800e-003	7.2800e-003		6.9700e-003	6.9700e-003	0.0000	32.1989	32.1989	5.9100e-003	0.0000	32.3466

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	2.2000e-004	8.4700e-003	3.3900e-003	4.0000e-005	1.4600e-003	4.0000e-005	1.5100e-003	4.2000e-004	4.0000e-005	4.6000e-004	0.0000	4.0259	4.0259	2.5000e-004	5.8000e-004	4.2059
Worker	2.1400e-003	1.4000e-003	0.0218	7.0000e-005	9.3600e-003	4.0000e-005	9.4000e-003	2.4900e-003	4.0000e-005	2.5300e-003	0.0000	6.8605	6.8605	1.4000e-004	1.5000e-004	6.9089
Total	2.3600e-003	9.8700e-003	0.0252	1.1000e-004	0.0108	8.0000e-005	0.0109	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	10.8863	10.8863	3.9000e-004	7.3000e-004	11.1148

Paseo de Colinas Townhomes Project - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Archit. Coating	0.0641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	0.0672	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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	2.0500e-003	1.4000e-003	0.0210	7.0000e-005	0.0304	4.0000e-005	0.0305	7.6400e-003	4.0000e-005	7.6800e-003	0.0000	6.3514	6.3514	1.4000e-004	1.5000e-004	6.3980
Total	2.0500e-003	1.4000e-003	0.0210	7.0000e-005	0.0304	4.0000e-005	0.0305	7.6400e-003	4.0000e-005	7.6800e-003	0.0000	6.3514	6.3514	1.4000e-004	1.5000e-004	6.3980

Paseo de Colinas Townhomes Project - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Archit. Coating	0.0641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	0.0672	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745

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	2.0500e-003	1.4000e-003	0.0210	7.0000e-005	0.0304	4.0000e-005	0.0305	7.6400e-003	4.0000e-005	7.6800e-003	0.0000	6.3514	6.3514	1.4000e-004	1.5000e-004	6.3980
Total	2.0500e-003	1.4000e-003	0.0210	7.0000e-005	0.0304	4.0000e-005	0.0305	7.6400e-003	4.0000e-005	7.6800e-003	0.0000	6.3514	6.3514	1.4000e-004	1.5000e-004	6.3980

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.6 Architectural Coating - 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					
Archit. Coating	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6500e-003	0.0178	0.0280	5.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	3.9575	3.9575	2.2000e-004	0.0000	3.9629
Total	0.0594	0.0178	0.0280	5.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	3.9575	3.9575	2.2000e-004	0.0000	3.9629

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	1.7100e-003	1.1200e-003	0.0175	6.0000e-005	0.0270	4.0000e-005	0.0270	6.7700e-003	3.0000e-005	6.8000e-003	0.0000	5.4884	5.4884	1.1000e-004	1.2000e-004	5.5271
Total	1.7100e-003	1.1200e-003	0.0175	6.0000e-005	0.0270	4.0000e-005	0.0270	6.7700e-003	3.0000e-005	6.8000e-003	0.0000	5.4884	5.4884	1.1000e-004	1.2000e-004	5.5271

Paseo de Colinas Townhomes Project - Orange County, Annual

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

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.0568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6500e-003	0.0178	0.0280	5.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	3.9575	3.9575	2.2000e-004	0.0000	3.9629
Total	0.0594	0.0178	0.0280	5.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	3.9575	3.9575	2.2000e-004	0.0000	3.9629

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	1.7100e-003	1.1200e-003	0.0175	6.0000e-005	0.0270	4.0000e-005	0.0270	6.7700e-003	3.0000e-005	6.8000e-003	0.0000	5.4884	5.4884	1.1000e-004	1.2000e-004	5.5271
Total	1.7100e-003	1.1200e-003	0.0175	6.0000e-005	0.0270	4.0000e-005	0.0270	6.7700e-003	3.0000e-005	6.8000e-003	0.0000	5.4884	5.4884	1.1000e-004	1.2000e-004	5.5271

Paseo de Colinas Townhomes Project - Orange County, Annual

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1295	0.1443	1.3367	3.1300e-003	0.3581	2.1500e-003	0.3602	0.0956	2.0000e-003	0.0976	0.0000	296.5787	296.5787	0.0176	0.0121	300.6372
Unmitigated	0.1295	0.1443	1.3367	3.1300e-003	0.3581	2.1500e-003	0.3602	0.0956	2.0000e-003	0.0976	0.0000	296.5787	296.5787	0.0176	0.0121	300.6372

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	278.16	278.16	278.16	950,515	950,515
Parking Lot	0.00	0.00	0.00		
Total	278.16	278.16	278.16	950,515	950,515

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Paseo de Colinas Townhomes Project - Orange County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse High Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.2998	39.2998	2.4000e-003	2.9000e-004	39.4466
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.2998	39.2998	2.4000e-003	2.9000e-004	39.4466
NaturalGas Mitigated	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438
NaturalGas Unmitigated	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438

Paseo de Colinas Townhomes Project - Orange County, Annual

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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	tons/yr										MT/yr					
City Park	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
Condo/Townhouse High Rise	423686	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438

Paseo de Colinas Townhomes Project - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
City Park	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
Condo/Townhouse High Rise	423686	2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.2800e-003	0.0195	8.3100e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6095	22.6095	4.3000e-004	4.1000e-004	22.7438

Paseo de Colinas Townhomes Project - Orange County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	155553	38.0996	2.3300e-003	2.8000e-004	38.2419
Parking Lot	4900	1.2002	7.0000e-005	1.0000e-005	1.2046
Total		39.2998	2.4000e-003	2.9000e-004	39.4466

Paseo de Colinas Townhomes Project - Orange County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse High Rise	155553	38.0996	2.3300e-003	2.8000e-004	38.2419
Parking Lot	4900	1.2002	7.0000e-005	1.0000e-005	1.2046
Total		39.2998	2.4000e-003	2.9000e-004	39.4466

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Paseo de Colinas Townhomes Project - Orange County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1634	0.0116	0.3950	7.0000e-005		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	8.8537	8.8537	7.7000e-004	1.5000e-004	8.9179
Unmitigated	0.2871	0.0144	0.6335	6.4000e-004		0.0385	0.0385		0.0385	0.0385	4.0363	8.3975	12.4338	0.0127	2.7000e-004	12.8317

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	0.0121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1245	9.8600e-003	0.2416	6.2000e-004		0.0363	0.0363		0.0363	0.0363	4.0363	7.7564	11.7928	0.0120	2.7000e-004	12.1753
Landscaping	0.0118	4.5100e-003	0.3920	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6410	0.6410	6.2000e-004	0.0000	0.6564
Total	0.2871	0.0144	0.6335	6.4000e-004		0.0385	0.0385		0.0385	0.0385	4.0363	8.3975	12.4338	0.0127	2.7000e-004	12.8317

Paseo de Colinas Townhomes Project - Orange County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1387					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	8.3000e-004	7.0900e-003	3.0200e-003	5.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.2127	8.2127	1.6000e-004	1.5000e-004	8.2615
Landscaping	0.0118	4.5100e-003	0.3920	2.0000e-005		2.1700e-003	2.1700e-003		2.1700e-003	2.1700e-003	0.0000	0.6410	0.6410	6.2000e-004	0.0000	0.6564
Total	0.1634	0.0116	0.3950	7.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	8.8537	8.8537	7.8000e-004	1.5000e-004	8.9179

7.0 Water Detail

7.1 Mitigation Measures Water

Paseo de Colinas Townhomes Project - Orange County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.7548	0.0817	2.0200e-003	19.3990
Unmitigated	16.7548	0.0817	2.0200e-003	19.3990

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.40595	3.8258	2.3000e-004	3.0000e-005	3.8401
Condo/Townhouse High Rise	2.47585 / 1.56086	12.9290	0.0814	1.9900e-003	15.5589
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		16.7548	0.0817	2.0200e-003	19.3990

Paseo de Colinas Townhomes Project - Orange County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.40595	3.8258	2.3000e-004	3.0000e-005	3.8401
Condo/Townhouse High Rise	2.47585 / 1.56086	12.9290	0.0814	1.9900e-003	15.5589
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		16.7548	0.0817	2.0200e-003	19.3990

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Paseo de Colinas Townhomes Project - Orange County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.7843	0.1055	0.0000	4.4205
Unmitigated	3.5686	0.2109	0.0000	8.8410

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.1	0.0203	1.2000e-003	0.0000	0.0503
Condo/Townhouse High Rise	17.48	3.5483	0.2097	0.0000	8.7907
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.5686	0.2109	0.0000	8.8410

Paseo de Colinas Townhomes Project - Orange County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.05	0.0102	6.0000e-004	0.0000	0.0252
Condo/Townhouse High Rise	8.74	1.7741	0.1049	0.0000	4.3954
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.7843	0.1055	0.0000	4.4205

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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Paseo de Colinas Townhomes Project - Orange County, Annual

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

11.0 Vegetation

Paseo de Colinas Townhomes Project - Orange County, Summer

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

**Paseo de Colinas Townhomes Project
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	35.00	Space	0.70	14,000.00	0
City Park	1.18	Acre	1.18	51,373.00	0
Condo/Townhouse High Rise	38.00	Dwelling Unit	0.59	38,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Townhomes 38 DU (garage included). 35 Guest parking spaces. Total 51,373 sf open space. Total lot acreage is 2.47 acres.

Construction Phase - Per Construction Questionnaire

Off-road Equipment -

Trips and VMT -

Demolition - Per Construction Questionnaire

Grading -

Architectural Coating -

Vehicle Trips - Per Traffic Study

Area Coating -

Paseo de Colinas Townhomes Project - Orange County, Summer

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

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanent wood-burning furnaces in new constructions. Thus, only natural gas hearth would occur.

Waste Mitigation - Per AB 341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	220.00	444.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblLandUse	LandUseSquareFeet	51,400.80	51,373.00
tblLandUse	LotAcreage	0.32	0.70
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	5.44	7.32

2.0 Emissions Summary

Paseo de Colinas Townhomes Project - Orange County, Summer

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

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	2.3253	23.1225	21.1533	0.0408	7.3620	1.0396	8.4016	3.4989	0.9576	4.4564	0.0000	3,946.934 9	3,946.934 9	1.1926	0.0628	3,978.284 6
2024	5.7167	14.7268	18.9522	0.0397	2.4852	0.6072	3.0924	0.6359	0.5838	1.2198	0.0000	3,795.348 9	3,795.348 9	0.4789	0.0611	3,825.524 7
2025	5.5846	13.8357	18.6897	0.0393	2.4852	0.5295	3.0147	0.6359	0.5088	1.1447	0.0000	3,767.319 2	3,767.319 2	0.4704	0.0593	3,796.763 6
Maximum	5.7167	23.1225	21.1533	0.0408	7.3620	1.0396	8.4016	3.4989	0.9576	4.4564	0.0000	3,946.934 9	3,946.934 9	1.1926	0.0628	3,978.284 6

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					
2023	2.3253	23.1225	21.1533	0.0408	2.9035	1.0396	3.9431	1.3430	0.9576	2.3005	0.0000	3,946.934 9	3,946.934 9	1.1926	0.0628	3,978.284 6
2024	5.7167	14.7268	18.9522	0.0397	2.4852	0.6072	3.0924	0.6359	0.5838	1.2198	0.0000	3,795.348 9	3,795.348 9	0.4789	0.0611	3,825.524 7
2025	5.5846	13.8357	18.6897	0.0393	2.4852	0.5295	3.0147	0.6359	0.5088	1.1447	0.0000	3,767.319 2	3,767.319 2	0.4704	0.0593	3,796.763 6
Maximum	5.7167	23.1225	21.1533	0.0408	2.9035	1.0396	3.9431	1.3430	0.9576	2.3005	0.0000	3,946.934 9	3,946.934 9	1.1926	0.0628	3,978.284 6

Paseo de Colinas Townhomes Project - Orange County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681
Energy	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Mobile	0.7319	0.7280	7.3770	0.0177	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,849.7969	1,849.7969	0.1041	0.0703	1,873.3395
Total	11.6224	1.6595	29.8832	0.0679	2.0029	2.9406	4.9435	0.5339	2.9398	3.4737	355.9429	2,676.0124	3,031.9553	1.1736	0.0969	3,090.1817

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	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276
Energy	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Mobile	0.7319	0.7280	7.3770	0.0177	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,849.7969	1,849.7969	0.1041	0.0703	1,873.3395
Total	1.7314	1.4384	10.7996	0.0222	2.0029	0.0838	2.0866	0.5339	0.0829	0.6168	0.0000	2,716.2477	2,716.2477	0.1260	0.0861	2,745.0413

Paseo de Colinas Townhomes Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.10	13.32	63.86	67.32	0.00	97.15	57.79	0.00	97.18	82.24	100.00	-1.50	10.41	89.26	11.22	11.17

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	2/1/2023	3/2/2023	5	22	
2	Grading	Grading	3/3/2023	5/3/2023	5	44	
3	Paving	Paving	4/1/2023	6/1/2023	5	44	
4	Building Construction	Building Construction	6/2/2023	2/12/2025	5	444	
5	Architectural Coating	Architectural Coating	11/13/2024	2/12/2025	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44

Acres of Paving: 0.7

Residential Indoor: 76,950; Residential Outdoor: 25,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

Paseo de Colinas Townhomes Project - Orange County, Summer

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

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	15.00	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	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.2 Demolition - 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					1.2645	0.0000	1.2645	0.1915	0.0000	0.1915			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	1.2645	0.6766	1.9411	0.1915	0.6328	0.8242		2,324.3959	2,324.3959	0.5893		2,339.1278

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	0.0122	0.6988	0.2395	3.2900e-003	0.1023	4.5000e-003	0.1068	0.0280	4.3000e-003	0.0323		375.0092	375.0092	0.0378	0.0602	393.8817
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	0.0366	0.0234	0.3981	1.2300e-003	0.1453	7.4000e-004	0.1461	0.0385	6.8000e-004	0.0392		125.4904	125.4904	2.7200e-003	2.6800e-003	126.3564
Total	0.0489	0.7222	0.6376	4.5200e-003	0.2476	5.2400e-003	0.2528	0.0665	4.9800e-003	0.0715		500.4996	500.4996	0.0406	0.0628	520.2381

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.2 Demolition - 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					0.4685	0.0000	0.4685	0.0709	0.0000	0.0709			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.4685	0.6766	1.1451	0.0709	0.6328	0.7037	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

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	0.0122	0.6988	0.2395	3.2900e-003	0.1023	4.5000e-003	0.1068	0.0280	4.3000e-003	0.0323		375.0092	375.0092	0.0378	0.0602	393.8817
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	0.0366	0.0234	0.3981	1.2300e-003	0.1453	7.4000e-004	0.1461	0.0385	6.8000e-004	0.0392		125.4904	125.4904	2.7200e-003	2.6800e-003	126.3564
Total	0.0489	0.7222	0.6376	4.5200e-003	0.2476	5.2400e-003	0.2528	0.0665	4.9800e-003	0.0715		500.4996	500.4996	0.0406	0.0628	520.2381

Paseo de Colinas Townhomes Project - Orange County, Summer

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

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807		1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972

Paseo de Colinas Townhomes Project - Orange County, Summer

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

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					2.6241	0.0000	2.6241	1.2689	0.0000	1.2689			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	2.6241	0.6044	3.2285	1.2689	0.5560	1.8249	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972
Total	0.0282	0.0180	0.3062	9.4000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		96.5311	96.5311	2.1000e-003	2.0600e-003	97.1972

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.4 Paving - 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9219	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0423	0.0270	0.4593	1.4100e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		144.7966	144.7966	3.1400e-003	3.0900e-003	145.7958
Total	0.0423	0.0270	0.4593	1.4100e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		144.7966	144.7966	3.1400e-003	3.0900e-003	145.7958

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.4 Paving - 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9219	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0423	0.0270	0.4593	1.4100e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		144.7966	144.7966	3.1400e-003	3.0900e-003	145.7958
Total	0.0423	0.0270	0.4593	1.4100e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		144.7966	144.7966	3.1400e-003	3.0900e-003	145.7958

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

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	0.0151	0.5257	0.2180	2.7000e-003	0.0959	2.7000e-003	0.0986	0.0276	2.5800e-003	0.0302		296.1741	296.1741	0.0176	0.0425	309.2785
Worker	0.1550	0.0991	1.6841	5.1900e-003	0.6148	3.1400e-003	0.6179	0.1630	2.8900e-003	0.1659		530.9208	530.9208	0.0115	0.0113	534.5846
Total	0.1701	0.6248	1.9021	7.8900e-003	0.7107	5.8400e-003	0.7165	0.1906	5.4700e-003	0.1961		827.0949	827.0949	0.0291	0.0538	843.8630

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

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	0.0151	0.5257	0.2180	2.7000e-003	0.0959	2.7000e-003	0.0986	0.0276	2.5800e-003	0.0302		296.1741	296.1741	0.0176	0.0425	309.2785
Worker	0.1550	0.0991	1.6841	5.1900e-003	0.6148	3.1400e-003	0.6179	0.1630	2.8900e-003	0.1659		530.9208	530.9208	0.0115	0.0113	534.5846
Total	0.1701	0.6248	1.9021	7.8900e-003	0.7107	5.8400e-003	0.7165	0.1906	5.4700e-003	0.1961		827.0949	827.0949	0.0291	0.0538	843.8630

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0149	0.5242	0.2163	2.6500e-003	0.0959	2.8200e-003	0.0987	0.0276	2.7000e-003	0.0303		291.5795	291.5795	0.0178	0.0420	304.5450
Worker	0.1457	0.0891	1.5697	5.0200e-003	0.6148	2.9900e-003	0.6178	0.1630	2.7500e-003	0.1658		518.1485	518.1485	0.0105	0.0106	521.5667
Total	0.1606	0.6132	1.7861	7.6700e-003	0.7107	5.8100e-003	0.7165	0.1906	5.4500e-003	0.1961		809.7280	809.7280	0.0283	0.0526	826.1117

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0149	0.5242	0.2163	2.6500e-003	0.0959	2.8200e-003	0.0987	0.0276	2.7000e-003	0.0303		291.5795	291.5795	0.0178	0.0420	304.5450
Worker	0.1457	0.0891	1.5697	5.0200e-003	0.6148	2.9900e-003	0.6178	0.1630	2.7500e-003	0.1658		518.1485	518.1485	0.0105	0.0106	521.5667
Total	0.1606	0.6132	1.7861	7.6700e-003	0.7107	5.8100e-003	0.7165	0.1906	5.4500e-003	0.1961		809.7280	809.7280	0.0283	0.0526	826.1117

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

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	0.0147	0.5216	0.2155	2.6000e-003	0.0959	2.8400e-003	0.0988	0.0276	2.7100e-003	0.0303		286.1209	286.1209	0.0180	0.0414	298.9096
Worker	0.1376	0.0807	1.4766	4.8500e-003	0.6148	2.8700e-003	0.6176	0.1630	2.6400e-003	0.1657		505.4780	505.4780	9.4900e-003	9.9700e-003	508.6853
Total	0.1523	0.6023	1.6921	7.4500e-003	0.7107	5.7100e-003	0.7164	0.1906	5.3500e-003	0.1960		791.5989	791.5989	0.0275	0.0514	807.5949

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

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	0.0147	0.5216	0.2155	2.6000e-003	0.0959	2.8400e-003	0.0988	0.0276	2.7100e-003	0.0303		286.1209	286.1209	0.0180	0.0414	298.9096
Worker	0.1376	0.0807	1.4766	4.8500e-003	0.6148	2.8700e-003	0.6176	0.1630	2.6400e-003	0.1657		505.4780	505.4780	9.4900e-003	9.9700e-003	508.6853
Total	0.1523	0.6023	1.6921	7.4500e-003	0.7107	5.7100e-003	0.7164	0.1906	5.3500e-003	0.1960		791.5989	791.5989	0.0275	0.0514	807.5949

Paseo de Colinas Townhomes Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.6617					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	3.8424	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	0.1166	0.0713	1.2558	4.0200e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		414.5188	414.5188	8.3600e-003	8.4800e-003	417.2534
Total	0.1166	0.0713	1.2558	4.0200e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		414.5188	414.5188	8.3600e-003	8.4800e-003	417.2534

Paseo de Colinas Townhomes Project - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.6617					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	3.8424	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	0.1166	0.0713	1.2558	4.0200e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		414.5188	414.5188	8.3600e-003	8.4800e-003	417.2534
Total	0.1166	0.0713	1.2558	4.0200e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		414.5188	414.5188	8.3600e-003	8.4800e-003	417.2534

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.6 Architectural Coating - 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					
Archit. Coating	3.6617					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
Total	3.8325	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1101	0.0646	1.1813	3.8800e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		404.3824	404.3824	7.5900e-003	7.9700e-003	406.9482
Total	0.1101	0.0646	1.1813	3.8800e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		404.3824	404.3824	7.5900e-003	7.9700e-003	406.9482

Paseo de Colinas Townhomes Project - Orange County, Summer

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

3.6 Architectural Coating - 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					
Archit. Coating	3.6617					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
Total	3.8325	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

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	0.1101	0.0646	1.1813	3.8800e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		404.3824	404.3824	7.5900e-003	7.9700e-003	406.9482
Total	0.1101	0.0646	1.1813	3.8800e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		404.3824	404.3824	7.5900e-003	7.9700e-003	406.9482

Paseo de Colinas Townhomes Project - Orange County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7319	0.7280	7.3770	0.0177	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,849.7969	1,849.7969	0.1041	0.0703	1,873.3395
Unmitigated	0.7319	0.7280	7.3770	0.0177	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,849.7969	1,849.7969	0.1041	0.0703	1,873.3395

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	278.16	278.16	278.16	950,515	950,515
Parking Lot	0.00	0.00	0.00		
Total	278.16	278.16	278.16	950,515	950,515

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Paseo de Colinas Townhomes Project - Orange County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse High Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
NaturalGas Unmitigated	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

Paseo de Colinas Townhomes Project - Orange County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse High Rise	1160.78	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

Paseo de Colinas Townhomes Project - Orange County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse High Rise	1.16078	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Paseo de Colinas Townhomes Project - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276
Unmitigated	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681

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	0.0662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.9574	0.7884	19.3250	0.0493		2.9028	2.9028		2.9028	2.9028	355.9429	684.0000	1,039.9429	1.0615	0.0242	1,073.6795
Landscaping	0.0944	0.0361	3.1358	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6529	5.6529	5.4300e-003		5.7886
Total	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681

Paseo de Colinas Townhomes Project - Orange County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0664	0.5673	0.2414	3.6200e-003		0.0459	0.0459		0.0459	0.0459	0.0000	724.2353	724.2353	0.0139	0.0133	728.5391
Landscaping	0.0944	0.0361	3.1358	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6529	5.6529	5.4300e-003		5.7886
Total	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276

7.0 Water Detail

7.1 Mitigation Measures Water

Paseo de Colinas Townhomes Project - Orange County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Paseo de Colinas Townhomes Project - Orange County, Winter

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

**Paseo de Colinas Townhomes Project
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	35.00	Space	0.70	14,000.00	0
City Park	1.18	Acre	1.18	51,373.00	0
Condo/Townhouse High Rise	38.00	Dwelling Unit	0.59	38,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Townhomes 38 DU (garage included). 35 Guest parking spaces. Total 51,373 sf open space. Total lot acreage is 2.47 acres.

Construction Phase - Per Construction Questionnaire

Off-road Equipment -

Trips and VMT -

Demolition - Per Construction Questionnaire

Grading -

Architectural Coating -

Vehicle Trips - Per Traffic Study

Area Coating -

Paseo de Colinas Townhomes Project - Orange County, Winter

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

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - SCAQMD Rule 445 prohibits the installation of any open or enclosed permanent wood-burning furnaces in new constructions. Thus, only natural gas hearth would occur.

Waste Mitigation - Per AB 341

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	220.00	444.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	44.00
tblConstructionPhase	NumDays	10.00	44.00
tblLandUse	LandUseSquareFeet	51,400.80	51,373.00
tblLandUse	LotAcreage	0.32	0.70
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	4.91	7.32
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	4.09	7.32
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	5.44	7.32

2.0 Emissions Summary

Paseo de Colinas Townhomes Project - Orange County, Winter

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

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	2.3319	23.1269	21.1009	0.0407	7.3620	1.0396	8.4016	3.4989	0.9576	4.4564	0.0000	3,935.396 4	3,935.396 4	1.1927	0.0631	3,966.847 4
2024	5.7415	14.7659	18.7685	0.0393	2.4852	0.6072	3.0924	0.6359	0.5839	1.2198	0.0000	3,751.265 4	3,751.265 4	0.4793	0.0624	3,781.841 8
2025	5.6088	13.8732	18.5189	0.0389	2.4852	0.5295	3.0147	0.6359	0.5088	1.1447	0.0000	3,724.414 3	3,724.414 3	0.4708	0.0606	3,754.235 5
Maximum	5.7415	23.1269	21.1009	0.0407	7.3620	1.0396	8.4016	3.4989	0.9576	4.4564	0.0000	3,935.396 4	3,935.396 4	1.1927	0.0631	3,966.847 4

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					
2023	2.3319	23.1269	21.1009	0.0407	2.9035	1.0396	3.9431	1.3430	0.9576	2.3005	0.0000	3,935.396 4	3,935.396 4	1.1927	0.0631	3,966.847 4
2024	5.7415	14.7659	18.7685	0.0393	2.4852	0.6072	3.0924	0.6359	0.5839	1.2198	0.0000	3,751.265 4	3,751.265 4	0.4793	0.0624	3,781.841 8
2025	5.6088	13.8732	18.5189	0.0389	2.4852	0.5295	3.0147	0.6359	0.5088	1.1447	0.0000	3,724.414 3	3,724.414 3	0.4708	0.0606	3,754.235 4
Maximum	5.7415	23.1269	21.1009	0.0407	2.9035	1.0396	3.9431	1.3430	0.9576	2.3005	0.0000	3,935.396 4	3,935.396 4	1.1927	0.0631	3,966.847 4

Paseo de Colinas Townhomes Project - Orange County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681
Energy	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Mobile	0.7268	0.7816	7.2976	0.0170	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,779.4010	1,779.4010	0.1073	0.0731	1,803.8758
Total	11.6172	1.7131	29.8038	0.0672	2.0029	2.9406	4.9435	0.5339	2.9398	3.4737	355.9429	2,605.6166	2,961.5595	1.1768	0.0998	3,020.7180

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	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276
Energy	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Mobile	0.7268	0.7816	7.2976	0.0170	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,779.4010	1,779.4010	0.1073	0.0731	1,803.8758
Total	1.7263	1.4920	10.7202	0.0215	2.0029	0.0838	2.0866	0.5339	0.0829	0.6168	0.0000	2,645.8519	2,645.8519	0.1292	0.0889	2,675.5776

Paseo de Colinas Townhomes Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.14	12.91	64.03	67.99	0.00	97.15	57.79	0.00	97.18	82.24	100.00	-1.54	10.66	89.02	10.90	11.43

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	2/1/2023	3/2/2023	5	22	
2	Grading	Grading	3/3/2023	5/3/2023	5	44	
3	Paving	Paving	4/1/2023	6/1/2023	5	44	
4	Building Construction	Building Construction	6/2/2023	2/12/2025	5	444	
5	Architectural Coating	Architectural Coating	11/13/2024	2/12/2025	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 44

Acres of Paving: 0.7

Residential Indoor: 76,950; Residential Outdoor: 25,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 840 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

Paseo de Colinas Townhomes Project - Orange County, Winter

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

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	5	13.00	0.00	129.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	15.00	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	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.2 Demolition - 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					1.2645	0.0000	1.2645	0.1915	0.0000	0.1915			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	1.2645	0.6766	1.9411	0.1915	0.6328	0.8242		2,324.3959	2,324.3959	0.5893		2,339.1278

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	0.0115	0.7285	0.2422	3.2900e-003	0.1023	4.5100e-003	0.1068	0.0280	4.3200e-003	0.0323		375.3482	375.3482	0.0378	0.0602	394.2361
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	0.0400	0.0257	0.3708	1.1700e-003	0.1453	7.4000e-004	0.1461	0.0385	6.8000e-004	0.0392		119.4903	119.4903	2.7900e-003	2.8500e-003	120.4090
Total	0.0515	0.7542	0.6130	4.4600e-003	0.2476	5.2500e-003	0.2528	0.0665	5.0000e-003	0.0715		494.8385	494.8385	0.0406	0.0631	514.6451

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.2 Demolition - 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					0.4685	0.0000	0.4685	0.0709	0.0000	0.0709			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.4685	0.6766	1.1451	0.0709	0.6328	0.7037	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

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	0.0115	0.7285	0.2422	3.2900e-003	0.1023	4.5100e-003	0.1068	0.0280	4.3200e-003	0.0323		375.3482	375.3482	0.0378	0.0602	394.2361
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	0.0400	0.0257	0.3708	1.1700e-003	0.1453	7.4000e-004	0.1461	0.0385	6.8000e-004	0.0392		119.4903	119.4903	2.7900e-003	2.8500e-003	120.4090
Total	0.0515	0.7542	0.6130	4.4600e-003	0.2476	5.2500e-003	0.2528	0.0665	5.0000e-003	0.0715		494.8385	494.8385	0.0406	0.0631	514.6451

Paseo de Colinas Townhomes Project - Orange County, Winter

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

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807		1,995.6147	1,995.6147	0.6454		2,011.7503

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	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223

Paseo de Colinas Townhomes Project - Orange County, Winter

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

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					2.6241	0.0000	2.6241	1.2689	0.0000	1.2689			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.614 7	1,995.614 7	0.6454		2,011.750 3
Total	1.3330	14.4676	8.7038	0.0206	2.6241	0.6044	3.2285	1.2689	0.5560	1.8249	0.0000	1,995.614 7	1,995.614 7	0.6454		2,011.750 3

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	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223
Total	0.0308	0.0198	0.2853	9.0000e-004	0.1118	5.7000e-004	0.1124	0.0296	5.3000e-004	0.0302		91.9157	91.9157	2.1500e-003	2.1900e-003	92.6223

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.4 Paving - 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9219	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0462	0.0297	0.4279	1.3500e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		137.8735	137.8735	3.2200e-003	3.2900e-003	138.9334
Total	0.0462	0.0297	0.4279	1.3500e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		137.8735	137.8735	3.2200e-003	3.2900e-003	138.9334

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.4 Paving - 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9219	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0462	0.0297	0.4279	1.3500e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		137.8735	137.8735	3.2200e-003	3.2900e-003	138.9334
Total	0.0462	0.0297	0.4279	1.3500e-003	0.1677	8.6000e-004	0.1685	0.0445	7.9000e-004	0.0453		137.8735	137.8735	3.2200e-003	3.2900e-003	138.9334

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

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	0.0146	0.5491	0.2249	2.7000e-003	0.0959	2.7100e-003	0.0986	0.0276	2.6000e-003	0.0302		296.6097	296.6097	0.0176	0.0426	309.7417
Worker	0.1694	0.1089	1.5689	4.9400e-003	0.6148	3.1400e-003	0.6179	0.1630	2.8900e-003	0.1659		505.5361	505.5361	0.0118	0.0121	509.4225
Total	0.1840	0.6580	1.7938	7.6400e-003	0.7107	5.8500e-003	0.7165	0.1906	5.4900e-003	0.1961		802.1457	802.1457	0.0294	0.0546	819.1642

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

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	0.0146	0.5491	0.2249	2.7000e-003	0.0959	2.7100e-003	0.0986	0.0276	2.6000e-003	0.0302		296.6097	296.6097	0.0176	0.0426	309.7417
Worker	0.1694	0.1089	1.5689	4.9400e-003	0.6148	3.1400e-003	0.6179	0.1630	2.8900e-003	0.1659		505.5361	505.5361	0.0118	0.0121	509.4225
Total	0.1840	0.6580	1.7938	7.6400e-003	0.7107	5.8500e-003	0.7165	0.1906	5.4900e-003	0.1961		802.1457	802.1457	0.0294	0.0546	819.1642

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0144	0.5476	0.2232	2.6500e-003	0.0959	2.8400e-003	0.0988	0.0276	2.7100e-003	0.0303		292.0190	292.0190	0.0178	0.0421	305.0114
Worker	0.1598	0.0978	1.4639	4.7800e-003	0.6148	2.9900e-003	0.6178	0.1630	2.7500e-003	0.1658		493.4135	493.4135	0.0107	0.0113	497.0393
Total	0.1741	0.6454	1.6871	7.4300e-003	0.7107	5.8300e-003	0.7165	0.1906	5.4600e-003	0.1961		785.4325	785.4325	0.0285	0.0534	802.0507

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0144	0.5476	0.2232	2.6500e-003	0.0959	2.8400e-003	0.0988	0.0276	2.7100e-003	0.0303		292.0190	292.0190	0.0178	0.0421	305.0114
Worker	0.1598	0.0978	1.4639	4.7800e-003	0.6148	2.9900e-003	0.6178	0.1630	2.7500e-003	0.1658		493.4135	493.4135	0.0107	0.0113	497.0393
Total	0.1741	0.6454	1.6871	7.4300e-003	0.7107	5.8300e-003	0.7165	0.1906	5.4600e-003	0.1961		785.4325	785.4325	0.0285	0.0534	802.0507

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

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	0.0142	0.5449	0.2221	2.6000e-003	0.0959	2.8500e-003	0.0988	0.0276	2.7300e-003	0.0303		286.5614	286.5614	0.0180	0.0415	299.3765
Worker	0.1513	0.0886	1.3780	4.6200e-003	0.6148	2.8700e-003	0.6176	0.1630	2.6400e-003	0.1657		481.3972	481.3972	9.7500e-003	0.0106	484.7991
Total	0.1655	0.6335	1.6001	7.2200e-003	0.7107	5.7200e-003	0.7164	0.1906	5.3700e-003	0.1960		767.9586	767.9586	0.0277	0.0521	784.1756

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.5 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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

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	0.0142	0.5449	0.2221	2.6000e-003	0.0959	2.8500e-003	0.0988	0.0276	2.7300e-003	0.0303		286.5614	286.5614	0.0180	0.0415	299.3765
Worker	0.1513	0.0886	1.3780	4.6200e-003	0.6148	2.8700e-003	0.6176	0.1630	2.6400e-003	0.1657		481.3972	481.3972	9.7500e-003	0.0106	484.7991
Total	0.1655	0.6335	1.6001	7.2200e-003	0.7107	5.7200e-003	0.7164	0.1906	5.3700e-003	0.1960		767.9586	767.9586	0.0277	0.0521	784.1756

Paseo de Colinas Townhomes Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.6617					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	3.8424	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	0.1278	0.0782	1.1711	3.8300e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		394.7308	394.7308	8.5700e-003	9.0100e-003	397.6314
Total	0.1278	0.0782	1.1711	3.8300e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		394.7308	394.7308	8.5700e-003	9.0100e-003	397.6314

Paseo de Colinas Townhomes Project - Orange County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.6617					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	3.8424	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	0.1278	0.0782	1.1711	3.8300e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		394.7308	394.7308	8.5700e-003	9.0100e-003	397.6314
Total	0.1278	0.0782	1.1711	3.8300e-003	1.7745	2.3900e-003	1.7769	0.4453	2.2000e-003	0.4475		394.7308	394.7308	8.5700e-003	9.0100e-003	397.6314

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.6 Architectural Coating - 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					
Archit. Coating	3.6617					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
Total	3.8325	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.1211	0.0709	1.1024	3.7000e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		385.1178	385.1178	7.8000e-003	8.4800e-003	387.8393
Total	0.1211	0.0709	1.1024	3.7000e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		385.1178	385.1178	7.8000e-003	8.4800e-003	387.8393

Paseo de Colinas Townhomes Project - Orange County, Winter

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

3.6 Architectural Coating - 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					
Archit. Coating	3.6617					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
Total	3.8325	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

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	0.1211	0.0709	1.1024	3.7000e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		385.1178	385.1178	7.8000e-003	8.4800e-003	387.8393
Total	0.1211	0.0709	1.1024	3.7000e-003	1.7745	2.2900e-003	1.7768	0.4453	2.1100e-003	0.4474		385.1178	385.1178	7.8000e-003	8.4800e-003	387.8393

Paseo de Colinas Townhomes Project - Orange County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7268	0.7816	7.2976	0.0170	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,779.4010	1,779.4010	0.1073	0.0731	1,803.8758
Unmitigated	0.7268	0.7816	7.2976	0.0170	2.0029	0.0118	2.0147	0.5339	0.0110	0.5449		1,779.4010	1,779.4010	0.1073	0.0731	1,803.8758

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse High Rise	278.16	278.16	278.16	950,515	950,515
Parking Lot	0.00	0.00	0.00		
Total	278.16	278.16	278.16	950,515	950,515

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Paseo de Colinas Townhomes Project - Orange County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Condo/Townhouse High Rise	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801
Parking Lot	0.547453	0.060181	0.185039	0.126487	0.024236	0.006679	0.014707	0.004926	0.000662	0.000378	0.024745	0.000705	0.003801

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
NaturalGas Unmitigated	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

Paseo de Colinas Townhomes Project - Orange County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse High Rise	1160.78	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

Paseo de Colinas Townhomes Project - Orange County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
Condo/Townhouse High Rise	1.16078	0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0125	0.1070	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003		136.5626	136.5626	2.6200e-003	2.5000e-003	137.3742

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

Paseo de Colinas Townhomes Project - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276
Unmitigated	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681

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	0.0662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	9.9574	0.7884	19.3250	0.0493		2.9028	2.9028		2.9028	2.9028	355.9429	684.0000	1,039.9429	1.0615	0.0242	1,073.6795
Landscaping	0.0944	0.0361	3.1358	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6529	5.6529	5.4300e-003		5.7886
Total	10.8780	0.8246	22.4607	0.0495		2.9202	2.9202		2.9202	2.9202	355.9429	689.6529	1,045.5958	1.0669	0.0242	1,079.4681

Paseo de Colinas Townhomes Project - Orange County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0664	0.5673	0.2414	3.6200e-003		0.0459	0.0459		0.0459	0.0459	0.0000	724.2353	724.2353	0.0139	0.0133	728.5391
Landscaping	0.0944	0.0361	3.1358	1.7000e-004		0.0174	0.0174		0.0174	0.0174		5.6529	5.6529	5.4300e-003		5.7886
Total	0.9870	0.6034	3.3772	3.7900e-003		0.0633	0.0633		0.0633	0.0633	0.0000	729.8882	729.8882	0.0193	0.0133	734.3276

7.0 Water Detail

7.1 Mitigation Measures Water

Paseo de Colinas Townhomes Project - Orange County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

**Paseo de Colinas Townhomes Project
Energy Calculations
Operational Electricity and Natural Gas Consumption**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
City Park	0	0	0	0
Condo/Townhouse High Rise	423,686	4,237	155,553	156
Parking Lot	0	0	4,900	5
Totals	423,686	4,237	160,453	160

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Orange County Energy Consumption (2020)	Percentage Increase Countywide
Electricity (MWh)	160	19,733,000	0.0008%
Natural Gas (Therms)	4,237	594,632,076	0.0007%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

**Paseo de Colinas Townhomes Project
Energy Calculations**

WORKER TRIPS						
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	22	13	14.7	4,204		168.82
Grading	44	10	14.7	6,468		259.73
Building Construction	444	55	14.7	358,974	24.90284233	14,414.98
Architectural Coating	66	11	14.7	10,672		428.55
Paving	44	15	14.7	9,702		389.59
						15661.68
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Demolition	22	0	6.9	-		-
Grading	44	0	6.9	-		-
Building Construction	444	15	6.9	104	8.343886151	12.40
Architectural Coating	66	0	6.9	-		-
Paving	44	0	6.9	-		-
						12.40
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day) ¹	Total Fuel Consumption
Demolition	22	129	20	2,580		309.21
Grading	44	0	20	-		-
Building Construction	444	0	20	-	8.343886151	-
Architectural Coating	66	0	20	-		-
Paving	44	0	20	-		-
						309.21
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						15,983.29

**Paseo de Colinas Townhomes Project
Energy Calculations**

On-Site Construction Fuel Consumption

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)	
Demolition	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	22	416.28	
Demolition	Rubber Tired Dozers	1	8	247	0.40	3.952	8	22	695.55	
Demolition	Tractors/Loaders/Backhoes	3	8	97	0.37	1.4356	24	22	758.00	
Grading	Graders	1	8	187	0.41	3.0668	8	44	1079.51	
Grading	Rubber Tired Dozers	1	8	247	0.40	3.952	8	44	1391.10	
Grading	Tractors/Loaders/Backhoes	2	7	97	0.37	1.4356	14	44	884.33	
Paving	Cement and Mortar Mixers	1	8	9	0.56	0.2016	8	44	70.96	
Paving	Pavers	1	8	130	0.42	2.184	8	44	768.77	
Paving	Paving Equipment	1	8	132	0.36	1.9008	8	44	669.08	
Paving	Rollers	2	8	80	0.38	1.216	16	44	856.06	
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	44	505.33	
Building Construction	Cranes	1	8	231	0.29	2.6796	8	440	9432.19	
Building Construction	Forklifts	2	7	89	0.20	0.712	14	440	4385.92	
Building Construction	Generator Sets	1	8	84	0.74	2.4864	8	440	8752.13	
Building Construction	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	440	3789.98	
Building Construction	Welders	3	8	46	0.45	0.828	24	440	8743.68	
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	66	593.05	
TOTAL									43,792	
Notes:									TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION	15,983
Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor									TOTAL:	59,775
Where:										
Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.										
Source: Refer to CalEEMod outputs for assumptions used in this analysis.										