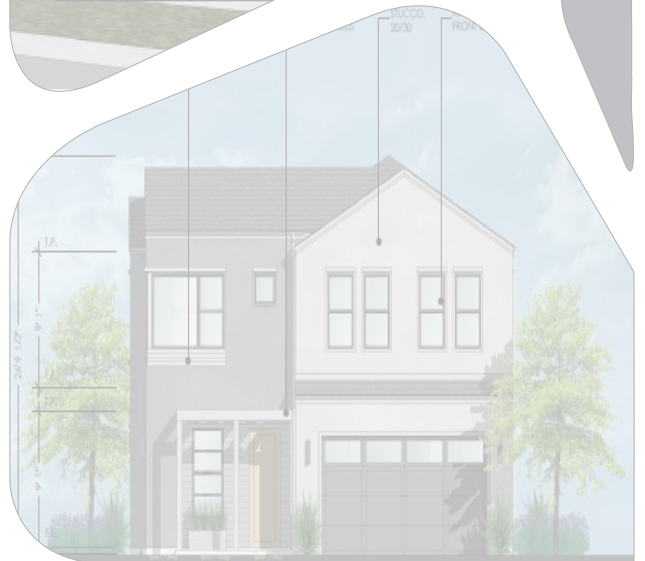


Air Quality/Greenhouse Gas Assessment



Pines at Sunrise Village Fullerton - Orange County, Annual

**Pines at Sunrise Village Fullerton
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	158.00	Space	1.42	63,200.00	0
Condo/Townhouse	115.00	Dwelling Unit	5.50	208,112.00	329
Single Family Housing	49.00	Dwelling Unit	5.60	109,257.00	140

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Pines at Sunrise Village Fullerton - Orange County, Annual

Project Characteristics - Adjusted per the SCE 2019 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25 \times 0.029-298 \times 0.00617=531.4363$ to avoid double counting.

Land Use - Land uses per site plans

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Trip rates per traffic study

Woodstoves - No wood burning fireplaces per SCAQMD Regulations

Energy Use - Title 24

Construction Off-road Equipment Mitigation - SCAQMD Rule Compliance

Water Mitigation -

Waste Mitigation - Per AB939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	400.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	PhaseEndDate	1/11/2024	8/15/2024
tblConstructionPhase	PhaseEndDate	11/16/2023	4/18/2024
tblConstructionPhase	PhaseEndDate	7/28/2022	8/11/2022
tblConstructionPhase	PhaseEndDate	9/22/2022	10/6/2022
tblConstructionPhase	PhaseEndDate	12/14/2023	5/23/2024
tblConstructionPhase	PhaseEndDate	8/11/2022	8/25/2022
tblConstructionPhase	PhaseStartDate	12/15/2023	5/24/2024

Pines at Sunrise Village Fullerton - Orange County, Annual

tblConstructionPhase	PhaseStartDate	9/23/2022	10/7/2022
tblConstructionPhase	PhaseStartDate	8/12/2022	8/26/2022
tblConstructionPhase	PhaseStartDate	11/17/2023	3/1/2024
tblConstructionPhase	PhaseStartDate	7/29/2022	8/12/2022
tblEnergyUse	LightingElect	1,001.10	700.77
tblEnergyUse	LightingElect	1,608.84	1,126.19
tblEnergyUse	T24E	172.41	120.69
tblEnergyUse	T24E	253.73	177.61
tblFireplaces	NumberWood	5.75	0.00
tblFireplaces	NumberWood	2.45	0.00
tblLandUse	LandUseSquareFeet	115,000.00	208,112.00
tblLandUse	LandUseSquareFeet	88,200.00	109,257.00
tblLandUse	LotAcreage	7.19	5.50
tblLandUse	LotAcreage	15.91	5.60
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	5.75	0.00
tblWoodstoves	NumberCatalytic	2.45	0.00
tblWoodstoves	NumberNoncatalytic	5.75	0.00
tblWoodstoves	NumberNoncatalytic	2.45	0.00

2.0 Emissions Summary

Pines at Sunrise Village Fullerton - Orange County, Annual

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					
2022	0.1814	1.7599	1.5030	3.3600e-003	0.3360	0.0766	0.4126	0.1280	0.0711	0.1991	0.0000	299.7955	299.7955	0.0676	0.0000	301.4854
2023	0.2658	2.1496	2.6105	5.9000e-003	0.2042	0.0924	0.2966	0.0547	0.0869	0.1417	0.0000	525.9168	525.9168	0.0807	0.0000	527.9352
2024	1.1183	0.9386	1.3018	2.6500e-003	0.0752	0.0406	0.1158	0.0201	0.0380	0.0582	0.0000	235.4523	235.4523	0.0443	0.0000	236.5608
Maximum	1.1183	2.1496	2.6105	5.9000e-003	0.3360	0.0924	0.4126	0.1280	0.0869	0.1991	0.0000	525.9168	525.9168	0.0807	0.0000	527.9352

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					
2022	0.1814	1.7599	1.5030	3.3600e-003	0.1587	0.0766	0.2353	0.0567	0.0711	0.1278	0.0000	299.7953	299.7953	0.0676	0.0000	301.4851
2023	0.2658	2.1496	2.6105	5.9000e-003	0.1938	0.0924	0.2862	0.0522	0.0869	0.1391	0.0000	525.9165	525.9165	0.0807	0.0000	527.9348
2024	1.1183	0.9386	1.3018	2.6500e-003	0.0714	0.0406	0.1120	0.0192	0.0380	0.0572	0.0000	235.4521	235.4521	0.0443	0.0000	236.5606
Maximum	1.1183	2.1496	2.6105	5.9000e-003	0.1938	0.0924	0.2862	0.0567	0.0869	0.1391	0.0000	525.9165	525.9165	0.0807	0.0000	527.9348

Pines at Sunrise Village Fullerton - Orange County, Annual

	ROG	NOx	CO	SO2	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	31.13	0.00	23.22	36.88	0.00	18.75	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	7-1-2022	9-30-2022	1.2185	1.2185
2	10-1-2022	12-31-2022	0.7252	0.7252
3	1-1-2023	3-31-2023	0.5977	0.5977
4	4-1-2023	6-30-2023	0.6021	0.6021
5	7-1-2023	9-30-2023	0.6087	0.6087
6	10-1-2023	12-31-2023	0.6110	0.6110
7	1-1-2024	3-31-2024	0.6862	0.6862
8	4-1-2024	6-30-2024	0.7872	0.7872
9	7-1-2024	9-30-2024	0.5735	0.5735
		Highest	1.2185	1.2185

Pines at Sunrise Village Fullerton - Orange County, Annual

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072
Energy	0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	397.1850	397.1850	0.0155	5.7200e-003	399.2765
Mobile	0.2947	1.1443	4.1029	0.0170	1.6906	0.0119	1.7025	0.4527	0.0110	0.4638	0.0000	1,570.5698	1,570.5698	0.0614	0.0000	1,572.1048
Waste						0.0000	0.0000		0.0000	0.0000	22.3899	0.0000	22.3899	1.3232	0.0000	55.4700
Water						0.0000	0.0000		0.0000	0.0000	3.3899	51.5799	54.9698	0.3510	8.8000e-003	66.3682
Total	1.6179	1.3444	5.8724	0.0182	1.6906	0.0359	1.7265	0.4527	0.0350	0.4877	25.7798	2,055.5764	2,081.3562	1.7544	0.0151	2,129.7267

Pines at Sunrise Village Fullerton - Orange County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072
Energy	0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	397.1850	397.1850	0.0155	5.7200e-003	399.2765
Mobile	0.2947	1.1443	4.1029	0.0170	1.6906	0.0119	1.7025	0.4527	0.0110	0.4638	0.0000	1,570.5698	1,570.5698	0.0614	0.0000	1,572.1048
Waste						0.0000	0.0000		0.0000	0.0000	11.1950	0.0000	11.1950	0.6616	0.0000	27.7350
Water						0.0000	0.0000		0.0000	0.0000	2.7120	43.7716	46.4836	0.2809	7.0700e-003	55.6141
Total	1.6179	1.3444	5.8724	0.0182	1.6906	0.0359	1.7265	0.4527	0.0350	0.4877	13.9069	2,047.7681	2,061.6750	1.0227	0.0134	2,091.2376

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.06	0.38	0.95	41.71	11.43	1.81

3.0 Construction Detail

Construction Phase

Pines at Sunrise Village Fullerton - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	8/11/2022	5	30	
2	Site Preparation	Site Preparation	8/12/2022	8/25/2022	5	10	
3	Grading	Grading	8/26/2022	10/6/2022	5	30	
4	Building Construction	Building Construction	10/7/2022	4/18/2024	5	400	
5	Paving	Paving	3/1/2024	5/23/2024	5	60	
6	Architectural Coating	Architectural Coating	5/24/2024	8/15/2024	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 1.42

Residential Indoor: 642,672; Residential Outdoor: 214,224; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,792 (Architectural Coating – sqft)

OffRoad Equipment

Pines at Sunrise Village Fullerton - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Pines at Sunrise Village Fullerton - Orange County, Annual

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	6	15.00	0.00	522.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	127.00	28.00	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	25.00	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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

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					0.0565	0.0000	0.0565	8.5500e-003	0.0000	8.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434
Total	0.0396	0.3858	0.3089	5.8000e-004	0.0565	0.0186	0.0751	8.5500e-003	0.0173	0.0259	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434

Pines at Sunrise Village Fullerton - Orange County, Annual

3.2 Demolition - 2022

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	1.8000e-003	0.0628	0.0187	1.9000e-004	4.4700e-003	1.8000e-004	4.6500e-003	1.2300e-003	1.7000e-004	1.4000e-003	0.0000	19.5622	19.5622	2.0600e-003	0.0000	19.6138
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	7.8000e-004	5.0000e-004	6.0300e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9873	1.9873	4.0000e-005	0.0000	1.9883
Total	2.5800e-003	0.0633	0.0247	2.1000e-004	6.9400e-003	2.0000e-004	7.1400e-003	1.8900e-003	1.8000e-004	2.0700e-003	0.0000	21.5495	21.5495	2.1000e-003	0.0000	21.6020

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					0.0209	0.0000	0.0209	3.1700e-003	0.0000	3.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433
Total	0.0396	0.3858	0.3089	5.8000e-004	0.0209	0.0186	0.0396	3.1700e-003	0.0173	0.0205	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433

Pines at Sunrise Village Fullerton - Orange County, Annual

3.2 Demolition - 2022

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	1.8000e-003	0.0628	0.0187	1.9000e-004	4.2700e-003	1.8000e-004	4.4500e-003	1.1800e-003	1.7000e-004	1.3500e-003	0.0000	19.5622	19.5622	2.0600e-003	0.0000	19.6138
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	7.8000e-004	5.0000e-004	6.0300e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3600e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.9873	1.9873	4.0000e-005	0.0000	1.9883
Total	2.5800e-003	0.0633	0.0247	2.1000e-004	6.6100e-003	2.0000e-004	6.8100e-003	1.8000e-003	1.8000e-004	1.9900e-003	0.0000	21.5495	21.5495	2.1000e-003	0.0000	21.6020

3.3 Site Preparation - 2022

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0903	8.0600e-003	0.0984	0.0497	7.4200e-003	0.0571	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Pines at Sunrise Village Fullerton - Orange County, Annual

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7949	0.7949	2.0000e-005	0.0000	0.7953
Total	3.1000e-004	2.0000e-004	2.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7949	0.7949	2.0000e-005	0.0000	0.7953

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					0.0335	0.0000	0.0335	0.0184	0.0000	0.0184	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0335	8.0600e-003	0.0415	0.0184	7.4200e-003	0.0258	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Pines at Sunrise Village Fullerton - Orange County, Annual

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1000e-004	2.0000e-004	2.4100e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7949	0.7949	2.0000e-005	0.0000	0.7953
Total	3.1000e-004	2.0000e-004	2.4100e-003	1.0000e-005	9.4000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.7949	0.7949	2.0000e-005	0.0000	0.7953

3.4 Grading - 2022

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
Total	0.0544	0.5827	0.4356	9.3000e-004	0.1301	0.0245	0.1546	0.0540	0.0226	0.0765	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633

Pines at Sunrise Village Fullerton - Orange County, Annual

3.4 Grading - 2022

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	1.0400e-003	6.7000e-004	8.0300e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6497	2.6497	5.0000e-005	0.0000	2.6510
Total	1.0400e-003	6.7000e-004	8.0300e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6497	2.6497	5.0000e-005	0.0000	2.6510

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					0.0482	0.0000	0.0482	0.0200	0.0000	0.0200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
Total	0.0544	0.5827	0.4356	9.3000e-004	0.0482	0.0245	0.0727	0.0200	0.0226	0.0426	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632

Pines at Sunrise Village Fullerton - Orange County, Annual

3.4 Grading - 2022

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	1.0400e-003	6.7000e-004	8.0300e-003	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.6497	2.6497	5.0000e-005	0.0000	2.6510
Total	1.0400e-003	6.7000e-004	8.0300e-003	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.6497	2.6497	5.0000e-005	0.0000	2.6510

3.5 Building Construction - 2022

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	0.0520	0.4763	0.4991	8.2000e-004		0.0247	0.0247		0.0232	0.0232	0.0000	70.6762	70.6762	0.0169	0.0000	71.0995
Total	0.0520	0.4763	0.4991	8.2000e-004		0.0247	0.0247		0.0232	0.0232	0.0000	70.6762	70.6762	0.0169	0.0000	71.0995

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2022

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	2.1900e-003	0.0769	0.0220	2.1000e-004	5.3800e-003	1.5000e-004	5.5200e-003	1.5500e-003	1.4000e-004	1.6900e-003	0.0000	20.4062	20.4062	1.6100e-003	0.0000	20.4466
Worker	0.0134	8.6400e-003	0.1037	3.8000e-004	0.0425	2.7000e-004	0.0428	0.0113	2.5000e-004	0.0116	0.0000	34.2120	34.2120	6.9000e-004	0.0000	34.2293
Total	0.0156	0.0855	0.1257	5.9000e-004	0.0479	4.2000e-004	0.0483	0.0128	3.9000e-004	0.0132	0.0000	54.6183	54.6183	2.3000e-003	0.0000	54.6759

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	0.0520	0.4763	0.4991	8.2000e-004		0.0247	0.0247		0.0232	0.0232	0.0000	70.6761	70.6761	0.0169	0.0000	71.0994
Total	0.0520	0.4763	0.4991	8.2000e-004		0.0247	0.0247		0.0232	0.0232	0.0000	70.6761	70.6761	0.0169	0.0000	71.0994

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2022

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	2.1900e-003	0.0769	0.0220	2.1000e-004	5.1500e-003	1.5000e-004	5.2900e-003	1.4900e-003	1.4000e-004	1.6300e-003	0.0000	20.4062	20.4062	1.6100e-003	0.0000	20.4466
Worker	0.0134	8.6400e-003	0.1037	3.8000e-004	0.0403	2.7000e-004	0.0406	0.0108	2.5000e-004	0.0110	0.0000	34.2120	34.2120	6.9000e-004	0.0000	34.2293
Total	0.0156	0.0855	0.1257	5.9000e-004	0.0455	4.2000e-004	0.0459	0.0122	3.9000e-004	0.0126	0.0000	54.6183	54.6183	2.3000e-003	0.0000	54.6759

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1100e-003	0.2461	0.0870	8.5000e-004	0.0229	3.0000e-004	0.0232	6.6100e-003	2.9000e-004	6.9000e-003	0.0000	84.3497	84.3497	6.3800e-003	0.0000	84.5093
Worker	0.0543	0.0335	0.4118	1.5500e-003	0.1813	1.1500e-003	0.1824	0.0481	1.0600e-003	0.0492	0.0000	140.2209	140.2209	2.6700e-003	0.0000	140.2876
Total	0.0614	0.2796	0.4988	2.4000e-003	0.2042	1.4500e-003	0.2056	0.0547	1.3500e-003	0.0561	0.0000	224.5706	224.5706	9.0500e-003	0.0000	224.7969

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1100e-003	0.2461	0.0870	8.5000e-004	0.0219	3.0000e-004	0.0222	6.3700e-003	2.9000e-004	6.6600e-003	0.0000	84.3497	84.3497	6.3800e-003	0.0000	84.5093
Worker	0.0543	0.0335	0.4118	1.5500e-003	0.1718	1.1500e-003	0.1730	0.0458	1.0600e-003	0.0469	0.0000	140.2209	140.2209	2.6700e-003	0.0000	140.2876
Total	0.0614	0.2796	0.4988	2.4000e-003	0.1938	1.4500e-003	0.1952	0.0522	1.3500e-003	0.0535	0.0000	224.5706	224.5706	9.0500e-003	0.0000	224.7969

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	0.0581	0.5310	0.6386	1.0600e-003		0.0242	0.0242		0.0228	0.0228	0.0000	91.5804	91.5804	0.0217	0.0000	92.1218
Total	0.0581	0.5310	0.6386	1.0600e-003		0.0242	0.0242		0.0228	0.0228	0.0000	91.5804	91.5804	0.0217	0.0000	92.1218

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0738	0.0259	2.6000e-004	6.9600e-003	9.0000e-005	7.0500e-003	2.0100e-003	9.0000e-005	2.0900e-003	0.0000	25.4271	25.4271	1.9100e-003	0.0000	25.4748
Worker	0.0157	9.2500e-003	0.1164	4.5000e-004	0.0551	3.4000e-004	0.0554	0.0146	3.2000e-004	0.0149	0.0000	40.9176	40.9176	7.4000e-004	0.0000	40.9360
Total	0.0178	0.0831	0.1423	7.1000e-004	0.0620	4.3000e-004	0.0625	0.0166	4.1000e-004	0.0170	0.0000	66.3446	66.3446	2.6500e-003	0.0000	66.4107

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	0.0581	0.5310	0.6386	1.0600e-003		0.0242	0.0242		0.0228	0.0228	0.0000	91.5803	91.5803	0.0217	0.0000	92.1217
Total	0.0581	0.5310	0.6386	1.0600e-003		0.0242	0.0242		0.0228	0.0228	0.0000	91.5803	91.5803	0.0217	0.0000	92.1217

Pines at Sunrise Village Fullerton - Orange County, Annual

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0738	0.0259	2.6000e-004	6.6700e-003	9.0000e-005	6.7600e-003	1.9400e-003	9.0000e-005	2.0200e-003	0.0000	25.4271	25.4271	1.9100e-003	0.0000	25.4748
Worker	0.0157	9.2500e-003	0.1164	4.5000e-004	0.0522	3.4000e-004	0.0526	0.0139	3.2000e-004	0.0142	0.0000	40.9176	40.9176	7.4000e-004	0.0000	40.9360
Total	0.0178	0.0831	0.1423	7.1000e-004	0.0589	4.3000e-004	0.0593	0.0159	4.1000e-004	0.0163	0.0000	66.3446	66.3446	2.6500e-003	0.0000	66.4107

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0296	0.2857	0.4388	6.8000e-004		0.0141	0.0141		0.0129	0.0129	0.0000	60.0796	60.0796	0.0194	0.0000	60.5654
Paving	1.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0315	0.2857	0.4388	6.8000e-004		0.0141	0.0141		0.0129	0.0129	0.0000	60.0796	60.0796	0.0194	0.0000	60.5654

Pines at Sunrise Village Fullerton - Orange County, Annual

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.4100e-003	8.3000e-004	0.0104	4.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.6705	3.6705	7.0000e-005	0.0000	3.6721
Total	1.4100e-003	8.3000e-004	0.0104	4.0000e-005	4.9400e-003	3.0000e-005	4.9700e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.6705	3.6705	7.0000e-005	0.0000	3.6721

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	0.0296	0.2857	0.4388	6.8000e-004		0.0141	0.0141		0.0129	0.0129	0.0000	60.0795	60.0795	0.0194	0.0000	60.5653
Paving	1.8600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0315	0.2857	0.4388	6.8000e-004		0.0141	0.0141		0.0129	0.0129	0.0000	60.0795	60.0795	0.0194	0.0000	60.5653

Pines at Sunrise Village Fullerton - Orange County, Annual

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	1.4100e-003	8.3000e-004	0.0104	4.0000e-005	4.6800e-003	3.0000e-005	4.7100e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6705	3.6705	7.0000e-005	0.0000	3.6721
Total	1.4100e-003	8.3000e-004	0.0104	4.0000e-005	4.6800e-003	3.0000e-005	4.7100e-003	1.2500e-003	3.0000e-005	1.2800e-003	0.0000	3.6705	3.6705	7.0000e-005	0.0000	3.6721

3.7 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	1.0017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4200e-003	0.0366	0.0543	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	7.6598	7.6598	4.3000e-004	0.0000	7.6705
Total	1.0071	0.0366	0.0543	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	7.6598	7.6598	4.3000e-004	0.0000	7.6705

Pines at Sunrise Village Fullerton - Orange County, Annual

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	2.3500e-003	1.3800e-003	0.0174	7.0000e-005	8.2300e-003	5.0000e-005	8.2800e-003	2.1900e-003	5.0000e-005	2.2300e-003	0.0000	6.1175	6.1175	1.1000e-004	0.0000	6.1202
Total	2.3500e-003	1.3800e-003	0.0174	7.0000e-005	8.2300e-003	5.0000e-005	8.2800e-003	2.1900e-003	5.0000e-005	2.2300e-003	0.0000	6.1175	6.1175	1.1000e-004	0.0000	6.1202

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	1.0017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4200e-003	0.0366	0.0543	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	7.6598	7.6598	4.3000e-004	0.0000	7.6705
Total	1.0071	0.0366	0.0543	9.0000e-005		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	7.6598	7.6598	4.3000e-004	0.0000	7.6705

Pines at Sunrise Village Fullerton - Orange County, Annual

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	2.3500e-003	1.3800e-003	0.0174	7.0000e-005	7.8100e-003	5.0000e-005	7.8600e-003	2.0800e-003	5.0000e-005	2.1300e-003	0.0000	6.1175	6.1175	1.1000e-004	0.0000	6.1202
Total	2.3500e-003	1.3800e-003	0.0174	7.0000e-005	7.8100e-003	5.0000e-005	7.8600e-003	2.0800e-003	5.0000e-005	2.1300e-003	0.0000	6.1175	6.1175	1.1000e-004	0.0000	6.1202

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pines at Sunrise Village Fullerton - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.2947	1.1443	4.1029	0.0170	1.6906	0.0119	1.7025	0.4527	0.0110	0.4638	0.0000	1,570.5698	1,570.5698	0.0614	0.0000	1,572.1048
Unmitigated	0.2947	1.1443	4.1029	0.0170	1.6906	0.0119	1.7025	0.4527	0.0110	0.4638	0.0000	1,570.5698	1,570.5698	0.0614	0.0000	1,572.1048

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	841.80	841.80	841.80	2,876,558	2,876,558
Parking Lot	0.00	0.00	0.00		
Single Family Housing	462.56	462.56	462.56	1,580,638	1,580,638
Total	1,304.36	1,304.36	1,304.36	4,457,196	4,457,196

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
Condo/Townhouse	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Pines at Sunrise Village Fullerton - Orange County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Single Family Housing	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	221.4213	221.4213	0.0121	2.5000e-003	222.4683
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	221.4213	221.4213	0.0121	2.5000e-003	222.4683
NaturalGas Mitigated	0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7637	175.7637	3.3700e-003	3.2200e-003	176.8082
NaturalGas Unmitigated	0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7637	175.7637	3.3700e-003	3.2200e-003	176.8082

Pines at Sunrise Village Fullerton - Orange County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	2.02925e+006	0.0109	0.0935	0.0398	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.2884	108.2884	2.0800e-003	1.9900e-003	108.9319
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26444e+006	6.8200e-003	0.0583	0.0248	3.7000e-004		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	67.4754	67.4754	1.2900e-003	1.2400e-003	67.8763
Total		0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7637	175.7637	3.3700e-003	3.2300e-003	176.8082

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	2.02925e+006	0.0109	0.0935	0.0398	6.0000e-004		7.5600e-003	7.5600e-003		7.5600e-003	7.5600e-003	0.0000	108.2884	108.2884	2.0800e-003	1.9900e-003	108.9319
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.26444e+006	6.8200e-003	0.0583	0.0248	3.7000e-004		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	67.4754	67.4754	1.2900e-003	1.2400e-003	67.8763
Total		0.0178	0.1518	0.0646	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.7637	175.7637	3.3700e-003	3.2300e-003	176.8082

Pines at Sunrise Village Fullerton - Orange County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	530894	127.9758	6.9800e-003	1.4400e-003	128.5810
Parking Lot	22120	5.3322	2.9000e-004	6.0000e-005	5.3574
Single Family Housing	365529	88.1133	4.8100e-003	9.9000e-004	88.5300
Total		221.4213	0.0121	2.4900e-003	222.4683

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	530894	127.9758	6.9800e-003	1.4400e-003	128.5810
Parking Lot	22120	5.3322	2.9000e-004	6.0000e-005	5.3574
Single Family Housing	365529	88.1133	4.8100e-003	9.9000e-004	88.5300
Total		221.4213	0.0121	2.4900e-003	222.4683

6.0 Area Detail

Pines at Sunrise Village Fullerton - Orange County, Annual

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072
Unmitigated	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072

Pines at Sunrise Village Fullerton - Orange County, Annual

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	0.1002					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3800e-003	0.0289	0.0123	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.4751	33.4751	6.4000e-004	6.1000e-004	33.6740
Landscaping	0.0510	0.0195	1.6926	9.0000e-005		9.3800e-003	9.3800e-003		9.3800e-003	9.3800e-003	0.0000	2.7666	2.7666	2.6600e-003	0.0000	2.8331
Total	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072

Pines at Sunrise Village Fullerton - Orange County, Annual

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	0.1002					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1509					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3800e-003	0.0289	0.0123	1.8000e-004		2.3400e-003	2.3400e-003		2.3400e-003	2.3400e-003	0.0000	33.4751	33.4751	6.4000e-004	6.1000e-004	33.6740
Landscaping	0.0510	0.0195	1.6926	9.0000e-005		9.3800e-003	9.3800e-003		9.3800e-003	9.3800e-003	0.0000	2.7666	2.7666	2.6600e-003	0.0000	2.8331
Total	1.3055	0.0484	1.7049	2.7000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	36.2417	36.2417	3.3000e-003	6.1000e-004	36.5072

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Pines at Sunrise Village Fullerton - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	46.4836	0.2809	7.0700e-003	55.6141
Unmitigated	54.9698	0.3510	8.8000e-003	66.3682

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	7.49271 / 4.72367	38.5459	0.2461	6.1700e-003	46.5387
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.19255 / 2.01269	16.4239	0.1049	2.6300e-003	19.8295
Total		54.9698	0.3510	8.8000e-003	66.3682

Pines at Sunrise Village Fullerton - Orange County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.99417 / 4.43552	32.5952	0.1970	4.9600e-003	38.9977
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.55404 / 1.88992	13.8884	0.0839	2.1100e-003	16.6164
Total		46.4836	0.2809	7.0700e-003	55.6141

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Pines at Sunrise Village Fullerton - Orange County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.1950	0.6616	0.0000	27.7350
Unmitigated	22.3899	1.3232	0.0000	55.4700

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	52.9	10.7382	0.6346	0.0000	26.6035
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	57.4	11.6517	0.6886	0.0000	28.8666
Total		22.3899	1.3232	0.0000	55.4700

Pines at Sunrise Village Fullerton - Orange County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	26.45	5.3691	0.3173	0.0000	13.3018
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	28.7	5.8258	0.3443	0.0000	14.4333
Total		11.1950	0.6616	0.0000	27.7350

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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Pines at Sunrise Village Fullerton - Orange County, Annual

11.0 Vegetation

Pines at Sunrise Village Fullerton - Orange County, Summer

**Pines at Sunrise Village Fullerton
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	158.00	Space	1.42	63,200.00	0
Condo/Townhouse	115.00	Dwelling Unit	5.50	208,112.00	329
Single Family Housing	49.00	Dwelling Unit	5.60	109,257.00	140

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Pines at Sunrise Village Fullerton - Orange County, Summer

Project Characteristics - Adjusted per the SCE 2019 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25 \times 0.029-298 \times 0.00617=531.4363$ to avoid double counting.

Land Use - Land uses per site plans

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Trip rates per traffic study

Woodstoves - No wood burning fireplaces per SCAQMD Regulations

Energy Use - Title 24

Construction Off-road Equipment Mitigation - SCAQMD Rule Compliance

Water Mitigation -

Waste Mitigation - Per AB939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	400.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	PhaseEndDate	1/11/2024	8/15/2024
tblConstructionPhase	PhaseEndDate	11/16/2023	4/18/2024
tblConstructionPhase	PhaseEndDate	7/28/2022	8/11/2022
tblConstructionPhase	PhaseEndDate	9/22/2022	10/6/2022
tblConstructionPhase	PhaseEndDate	12/14/2023	5/23/2024
tblConstructionPhase	PhaseEndDate	8/11/2022	8/25/2022
tblConstructionPhase	PhaseStartDate	12/15/2023	5/24/2024

Pines at Sunrise Village Fullerton - Orange County, Summer

tblConstructionPhase	PhaseStartDate	9/23/2022	10/7/2022
tblConstructionPhase	PhaseStartDate	8/12/2022	8/26/2022
tblConstructionPhase	PhaseStartDate	11/17/2023	3/1/2024
tblConstructionPhase	PhaseStartDate	7/29/2022	8/12/2022
tblEnergyUse	LightingElect	1,001.10	700.77
tblEnergyUse	LightingElect	1,608.84	1,126.19
tblEnergyUse	T24E	172.41	120.69
tblEnergyUse	T24E	253.73	177.61
tblFireplaces	NumberWood	5.75	0.00
tblFireplaces	NumberWood	2.45	0.00
tblLandUse	LandUseSquareFeet	115,000.00	208,112.00
tblLandUse	LandUseSquareFeet	88,200.00	109,257.00
tblLandUse	LotAcreage	7.19	5.50
tblLandUse	LotAcreage	15.91	5.60
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	5.75	0.00
tblWoodstoves	NumberCatalytic	2.45	0.00
tblWoodstoves	NumberNoncatalytic	5.75	0.00
tblWoodstoves	NumberNoncatalytic	2.45	0.00

2.0 Emissions Summary

Pines at Sunrise Village Fullerton - Orange County, Summer

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					
2022	3.6930	38.8830	29.6085	0.0641	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,214.0508	6,214.0508	1.9483	0.0000	6,262.7584
2023	2.0365	16.4887	20.2435	0.0459	1.5985	0.7109	2.3093	0.4280	0.6687	1.0967	0.0000	4,515.0931	4,515.0931	0.6846	0.0000	4,532.2072
2024	33.6481	25.0529	34.9157	0.0696	1.7661	1.0938	2.8599	0.4724	1.0190	1.4914	0.0000	6,808.7056	6,808.7056	1.3946	0.0000	6,843.5705
Maximum	33.6481	38.8830	34.9157	0.0696	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,808.7056	6,808.7056	1.9483	0.0000	6,843.5705

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					
2022	3.6930	38.8830	29.6085	0.0641	6.8843	1.6363	8.4981	3.7301	1.5054	5.2149	0.0000	6,214.0508	6,214.0508	1.9483	0.0000	6,262.7584
2023	2.0365	16.4887	20.2435	0.0459	1.5167	0.7109	2.2276	0.4079	0.6687	1.0766	0.0000	4,515.0931	4,515.0931	0.6846	0.0000	4,532.2072
2024	33.6481	25.0529	34.9157	0.0696	1.6757	1.0938	2.7694	0.4502	1.0190	1.4692	0.0000	6,808.7056	6,808.7056	1.3946	0.0000	6,843.5705
Maximum	33.6481	38.8830	34.9157	0.0696	6.8843	1.6363	8.4981	3.7301	1.5054	5.2149	0.0000	6,808.7056	6,808.7056	1.9483	0.0000	6,843.5705

Pines at Sunrise Village Fullerton - Orange County, Summer

	ROG	NOx	CO	SO2	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	53.42	0.00	46.13	57.85	0.00	44.79	0.00	0.00	0.00	0.00	0.00	0.00

Pines at Sunrise Village Fullerton - Orange County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Energy	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.623 9	1,061.623 9	0.0204	0.0195	1,067.932 6
Mobile	1.6981	6.0212	23.3325	0.0966	9.4553	0.0652	9.5205	2.5284	0.0605	2.5889		9,826.953 3	9,826.953 3	0.3742		9,836.307 0
Total	9.3293	9.3212	38.2110	0.1174	9.4553	0.3944	9.8498	2.5284	0.3897	2.9181	0.0000	13,864.97 43	13,864.97 43	0.4746	0.0736	13,898.76 56

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	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Energy	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.623 9	1,061.623 9	0.0204	0.0195	1,067.932 6
Mobile	1.6981	6.0212	23.3325	0.0966	9.4553	0.0652	9.5205	2.5284	0.0605	2.5889		9,826.953 3	9,826.953 3	0.3742		9,836.307 0
Total	9.3293	9.3212	38.2110	0.1174	9.4553	0.3944	9.8498	2.5284	0.3897	2.9181	0.0000	13,864.97 43	13,864.97 43	0.4746	0.0736	13,898.76 56

Pines at Sunrise Village Fullerton - Orange County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	8/11/2022	5	30	
2	Site Preparation	Site Preparation	8/12/2022	8/25/2022	5	10	
3	Grading	Grading	8/26/2022	10/6/2022	5	30	
4	Building Construction	Building Construction	10/7/2022	4/18/2024	5	400	
5	Paving	Paving	3/1/2024	5/23/2024	5	60	
6	Architectural Coating	Architectural Coating	5/24/2024	8/15/2024	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 1.42

Residential Indoor: 642,672; Residential Outdoor: 214,224; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,792 (Architectural Coating – sqft)

OffRoad Equipment

Pines at Sunrise Village Fullerton - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Pines at Sunrise Village Fullerton - Orange County, Summer

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	6	15.00	0.00	522.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	127.00	28.00	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	25.00	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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

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					3.7647	0.0000	3.7647	0.5700	0.0000	0.5700			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	3.7647	1.2427	5.0073	0.5700	1.1553	1.7253		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Pines at Sunrise Village Fullerton - Orange County, Summer

3.2 Demolition - 2022

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	0.1190	4.0645	1.2216	0.0129	0.3029	0.0120	0.3149	0.0829	0.0115	0.0944		1,446.8445	1,446.8445	0.1501		1,450.5973
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	0.1701	4.0942	1.6468	0.0144	0.4706	0.0131	0.4837	0.1274	0.0125	0.1399		1,598.8247	1,598.8247	0.1532		1,602.6542

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					1.3948	0.0000	1.3948	0.2112	0.0000	0.2112			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	1.3948	1.2427	2.6375	0.2112	1.1553	1.3665	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Pines at Sunrise Village Fullerton - Orange County, Summer

3.2 Demolition - 2022

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	0.1190	4.0645	1.2216	0.0129	0.2891	0.0120	0.3011	0.0795	0.0115	0.0910		1,446.8445	1,446.8445	0.1501		1,450.5973
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
Worker	0.0512	0.0297	0.4252	1.5200e-003	0.1589	1.0600e-003	0.1600	0.0423	9.8000e-004	0.0433		151.9802	151.9802	3.0700e-003		152.0569
Total	0.1701	4.0942	1.6468	0.0144	0.4480	0.0131	0.4611	0.1219	0.0125	0.1343		1,598.8247	1,598.8247	0.1532		1,602.6542

3.3 Site Preparation - 2022

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Pines at Sunrise Village Fullerton - Orange County, Summer

3.3 Site Preparation - 2022

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
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
Worker	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003		182.4683
Total	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003		182.4683

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	6.6936	1.6126	8.3061	3.6793	1.4836	5.1629	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Pines at Sunrise Village Fullerton - Orange County, Summer

3.3 Site Preparation - 2022

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
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
Worker	0.0614	0.0356	0.5103	1.8300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		182.3762	182.3762	3.6800e-003		182.4683
Total	0.0614	0.0356	0.5103	1.8300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		182.3762	182.3762	3.6800e-003		182.4683

3.4 Grading - 2022

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006		6,011.4105	6,011.4105	1.9442		6,060.0158

Pines at Sunrise Village Fullerton - Orange County, Summer

3.4 Grading - 2022

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
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
Worker	0.0682	0.0396	0.5670	2.0300e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		202.6403	202.6403	4.0900e-003		202.7426
Total	0.0682	0.0396	0.5670	2.0300e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		202.6403	202.6403	4.0900e-003		202.7426

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					3.2135	0.0000	3.2135	1.3325	0.0000	1.3325			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.2135	1.6349	4.8484	1.3325	1.5041	2.8366	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Pines at Sunrise Village Fullerton - Orange County, Summer

3.4 Grading - 2022

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
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
Worker	0.0682	0.0396	0.5670	2.0300e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		202.6403	202.6403	4.0900e-003		202.7426
Total	0.0682	0.0396	0.5670	2.0300e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		202.6403	202.6403	4.0900e-003		202.7426

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2022

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
Vendor	0.0702	2.4851	0.6879	6.8300e-003	0.1789	4.7500e-003	0.1836	0.0515	4.5400e-003	0.0560		745.2273	745.2273	0.0572		746.6565
Worker	0.4332	0.2513	3.6002	0.0129	1.4196	9.0100e-003	1.4286	0.3765	8.2900e-003	0.3848		1,286.7656	1,286.7656	0.0260		1,287.4153
Total	0.5035	2.7364	4.2881	0.0197	1.5985	0.0138	1.6122	0.4280	0.0128	0.4408		2,031.9929	2,031.9929	0.0832		2,034.0718

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2022

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
Vendor	0.0702	2.4851	0.6879	6.8300e-003	0.1712	4.7500e-003	0.1760	0.0496	4.5400e-003	0.0541		745.2273	745.2273	0.0572		746.6565
Worker	0.4332	0.2513	3.6002	0.0129	1.3455	9.0100e-003	1.3545	0.3583	8.2900e-003	0.3666		1,286.7656	1,286.7656	0.0260		1,287.4153
Total	0.5035	2.7364	4.2881	0.0197	1.5167	0.0138	1.5305	0.4079	0.0128	0.4207		2,031.9929	2,031.9929	0.0832		2,034.0718

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0535	1.8757	0.6420	6.6000e-003	0.1789	2.2600e-003	0.1811	0.0515	2.1600e-003	0.0536		722.5863	722.5863	0.0532		723.9150
Worker	0.4103	0.2281	3.3574	0.0124	1.4196	8.8600e-003	1.4284	0.3765	8.1500e-003	0.3846		1,237.2968	1,237.2968	0.0236		1,237.8862
Total	0.4637	2.1038	3.9995	0.0190	1.5985	0.0111	1.6096	0.4280	0.0103	0.4383		1,959.8832	1,959.8832	0.0767		1,961.8012

Mitigated Construction On-Site

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

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.0535	1.8757	0.6420	6.6000e-003	0.1712	2.2600e-003	0.1735	0.0496	2.1600e-003	0.0518		722.5863	722.5863	0.0532			723.9150
Worker	0.4103	0.2281	3.3574	0.0124	1.3455	8.8600e-003	1.3544	0.3583	8.1500e-003	0.3665		1,237.2968	1,237.2968	0.0236			1,237.8862
Total	0.4637	2.1038	3.9995	0.0190	1.5167	0.0111	1.5279	0.4079	0.0103	0.4182		1,959.8832	1,959.8832	0.0767			1,961.8012

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044			2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044			2,570.8077

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0517	1.8523	0.6287	6.5400e-003	0.1789	2.2100e-003	0.1811	0.0515	2.1100e-003	0.0536		716.8464	716.8464	0.0524		718.1550
Worker	0.3899	0.2078	3.1253	0.0119	1.4196	8.7000e-003	1.4283	0.3765	8.0100e-003	0.3845		1,188.2667	1,188.2667	0.0214		1,188.8018
Total	0.4416	2.0600	3.7540	0.0185	1.5984	0.0109	1.6094	0.4280	0.0101	0.4381		1,905.1130	1,905.1130	0.0738		1,906.9568

Mitigated Construction On-Site

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

Pines at Sunrise Village Fullerton - Orange County, Summer

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0517	1.8523	0.6287	6.5400e-003	0.1712	2.2100e-003	0.1734	0.0496	2.1100e-003	0.0517		716.8464	716.8464	0.0524		718.1550
Worker	0.3899	0.2078	3.1253	0.0119	1.3455	8.7000e-003	1.3542	0.3583	8.0100e-003	0.3663		1,188.2667	1,188.2667	0.0214		1,188.8018
Total	0.4416	2.0600	3.7540	0.0185	1.5167	0.0109	1.5277	0.4079	0.0101	0.4180		1,905.1130	1,905.1130	0.0738		1,906.9568

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0502	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Pines at Sunrise Village Fullerton - Orange County, Summer

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0461	0.0245	0.3691	1.4100e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		140.3465	140.3465	2.5300e-003		140.4097
Total	0.0461	0.0245	0.3691	1.4100e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		140.3465	140.3465	2.5300e-003		140.4097

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0502	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Pines at Sunrise Village Fullerton - Orange County, Summer

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0461	0.0245	0.3691	1.4100e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		140.3465	140.3465	2.5300e-003		140.4097
Total	0.0461	0.0245	0.3691	1.4100e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		140.3465	140.3465	2.5300e-003		140.4097

3.7 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	33.3905					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	33.5713	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Pines at Sunrise Village Fullerton - Orange County, Summer

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0768	0.0409	0.6152	2.3400e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		233.9108	233.9108	4.2100e-003		234.0161
Total	0.0768	0.0409	0.6152	2.3400e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		233.9108	233.9108	4.2100e-003		234.0161

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	33.3905					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	33.5713	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

Pines at Sunrise Village Fullerton - Orange County, Summer

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0768	0.0409	0.6152	2.3400e-003	0.2649	1.7100e-003	0.2666	0.0705	1.5800e-003	0.0721		233.9108	233.9108	4.2100e-003		234.0161
Total	0.0768	0.0409	0.6152	2.3400e-003	0.2649	1.7100e-003	0.2666	0.0705	1.5800e-003	0.0721		233.9108	233.9108	4.2100e-003		234.0161

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pines at Sunrise Village Fullerton - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	1.6981	6.0212	23.3325	0.0966	9.4553	0.0652	9.5205	2.5284	0.0605	2.5889		9,826.953 3	9,826.953 3	0.3742		9,836.307 0
Unmitigated	1.6981	6.0212	23.3325	0.0966	9.4553	0.0652	9.5205	2.5284	0.0605	2.5889		9,826.953 3	9,826.953 3	0.3742		9,836.307 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	841.80	841.80	841.80	2,876,558	2,876,558
Parking Lot	0.00	0.00	0.00		
Single Family Housing	462.56	462.56	462.56	1,580,638	1,580,638
Total	1,304.36	1,304.36	1,304.36	4,457,196	4,457,196

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
Condo/Townhouse	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Pines at Sunrise Village Fullerton - Orange County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Single Family Housing	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326
NaturalGas Unmitigated	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

Pines at Sunrise Village Fullerton - Orange County, Summer

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					
Condo/Townhouse	5559.58	0.0600	0.5124	0.2180	3.2700e-003		0.0414	0.0414		0.0414	0.0414		654.0685	654.0685	0.0125	0.0120	657.9553
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
Single Family Housing	3464.22	0.0374	0.3193	0.1359	2.0400e-003		0.0258	0.0258		0.0258	0.0258		407.5554	407.5554	7.8100e-003	7.4700e-003	409.9773
Total		0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

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					
Condo/Townhouse	5.55958	0.0600	0.5124	0.2180	3.2700e-003		0.0414	0.0414		0.0414	0.0414		654.0685	654.0685	0.0125	0.0120	657.9553
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
Single Family Housing	3.46422	0.0374	0.3193	0.1359	2.0400e-003		0.0258	0.0258		0.0258	0.0258		407.5554	407.5554	7.8100e-003	7.4700e-003	409.9773
Total		0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

6.0 Area Detail

Pines at Sunrise Village Fullerton - Orange County, Summer

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Unmitigated	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1

Pines at Sunrise Village Fullerton - Orange County, Summer

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	0.5489					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2706	2.3124	0.9840	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,952.0000	2,952.0000	0.0566	0.0541	2,969.5423
Landscaping	0.4081	0.1560	13.5406	7.2000e-004		0.0750	0.0750		0.0750	0.0750		24.3972	24.3972	0.0235		24.9838
Total	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.3972	2,976.3972	0.0801	0.0541	2,994.5261

Pines at Sunrise Village Fullerton - Orange County, Summer

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	0.5489					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2706	2.3124	0.9840	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,952.0000	2,952.0000	0.0566	0.0541	2,969.5423
Landscaping	0.4081	0.1560	13.5406	7.2000e-004		0.0750	0.0750		0.0750	0.0750		24.3972	24.3972	0.0235		24.9838
Total	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.3972	2,976.3972	0.0801	0.0541	2,994.5261

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Pines at Sunrise Village Fullerton - Orange County, Summer

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

Pines at Sunrise Village Fullerton - Orange County, Winter

**Pines at Sunrise Village Fullerton
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	158.00	Space	1.42	63,200.00	0
Condo/Townhouse	115.00	Dwelling Unit	5.50	208,112.00	329
Single Family Housing	49.00	Dwelling Unit	5.60	109,257.00	140

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Pines at Sunrise Village Fullerton - Orange County, Winter

Project Characteristics - Adjusted per the SCE 2019 Corporate Responsibility and Sustainability Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25 \times 0.029-298 \times 0.00617=531.4363$ to avoid double counting.

Land Use - Land uses per site plans

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Trip rates per traffic study

Woodstoves - No wood burning fireplaces per SCAQMD Regulations

Energy Use - Title 24

Construction Off-road Equipment Mitigation - SCAQMD Rule Compliance

Water Mitigation -

Waste Mitigation - Per AB939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	400.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	PhaseEndDate	1/11/2024	8/15/2024
tblConstructionPhase	PhaseEndDate	11/16/2023	4/18/2024
tblConstructionPhase	PhaseEndDate	7/28/2022	8/11/2022
tblConstructionPhase	PhaseEndDate	9/22/2022	10/6/2022
tblConstructionPhase	PhaseEndDate	12/14/2023	5/23/2024
tblConstructionPhase	PhaseEndDate	8/11/2022	8/25/2022
tblConstructionPhase	PhaseStartDate	12/15/2023	5/24/2024

Pines at Sunrise Village Fullerton - Orange County, Winter

tblConstructionPhase	PhaseStartDate	9/23/2022	10/7/2022
tblConstructionPhase	PhaseStartDate	8/12/2022	8/26/2022
tblConstructionPhase	PhaseStartDate	11/17/2023	3/1/2024
tblConstructionPhase	PhaseStartDate	7/29/2022	8/12/2022
tblEnergyUse	LightingElect	1,001.10	700.77
tblEnergyUse	LightingElect	1,608.84	1,126.19
tblEnergyUse	T24E	172.41	120.69
tblEnergyUse	T24E	253.73	177.61
tblFireplaces	NumberWood	5.75	0.00
tblFireplaces	NumberWood	2.45	0.00
tblLandUse	LandUseSquareFeet	115,000.00	208,112.00
tblLandUse	LandUseSquareFeet	88,200.00	109,257.00
tblLandUse	LotAcreage	7.19	5.50
tblLandUse	LotAcreage	15.91	5.60
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblVehicleTrips	ST_TR	5.67	7.32
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	4.84	7.32
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	5.81	7.32
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	5.75	0.00
tblWoodstoves	NumberCatalytic	2.45	0.00
tblWoodstoves	NumberNoncatalytic	5.75	0.00
tblWoodstoves	NumberNoncatalytic	2.45	0.00

2.0 Emissions Summary

Pines at Sunrise Village Fullerton - Orange County, Winter

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					
2022	3.7023	38.8870	29.5639	0.0640	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,203.2063	6,203.2063	1.9481	0.0000	6,251.9084
2023	2.0960	16.5004	20.0250	0.0451	1.5985	0.7110	2.3094	0.4280	0.6689	1.0968	0.0000	4,431.4170	4,431.4170	0.6855	0.0000	4,448.5533
2024	33.6590	25.0653	34.6815	0.0688	1.7661	1.0939	2.8600	0.4724	1.0191	1.4915	0.0000	6,720.3870	6,720.3870	1.3953	0.0000	6,755.2699
Maximum	33.6590	38.8870	34.6815	0.0688	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,720.3870	6,720.3870	1.9481	0.0000	6,755.2699

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					
2022	3.7023	38.8870	29.5639	0.0640	6.8843	1.6363	8.4981	3.7301	1.5054	5.2149	0.0000	6,203.2063	6,203.2063	1.9481	0.0000	6,251.9084
2023	2.0960	16.5004	20.0250	0.0451	1.5167	0.7110	2.2277	0.4079	0.6689	1.0768	0.0000	4,431.4170	4,431.4170	0.6855	0.0000	4,448.5533
2024	33.6590	25.0653	34.6815	0.0688	1.6757	1.0939	2.7696	0.4502	1.0191	1.4693	0.0000	6,720.3870	6,720.3870	1.3953	0.0000	6,755.2699
Maximum	33.6590	38.8870	34.6815	0.0688	6.8843	1.6363	8.4981	3.7301	1.5054	5.2149	0.0000	6,720.3870	6,720.3870	1.9481	0.0000	6,755.2699

Pines at Sunrise Village Fullerton - Orange County, Winter

	ROG	NOx	CO	SO2	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	53.42	0.00	46.13	57.85	0.00	44.79	0.00	0.00	0.00	0.00	0.00	0.00

Pines at Sunrise Village Fullerton - Orange County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Energy	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.623 9	1,061.623 9	0.0204	0.0195	1,067.932 6
Mobile	1.6661	6.1891	22.2200	0.0923	9.4553	0.0654	9.5207	2.5284	0.0607	2.5891		9,399.279 1	9,399.279 1	0.3728		9,408.597 8
Total	9.2974	9.4891	37.0985	0.1131	9.4553	0.3946	9.8500	2.5284	0.3899	2.9183	0.0000	13,437.30 01	13,437.30 01	0.4732	0.0736	13,471.05 64

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	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Energy	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.623 9	1,061.623 9	0.0204	0.0195	1,067.932 6
Mobile	1.6661	6.1891	22.2200	0.0923	9.4553	0.0654	9.5207	2.5284	0.0607	2.5891		9,399.279 1	9,399.279 1	0.3728		9,408.597 8
Total	9.2974	9.4891	37.0985	0.1131	9.4553	0.3946	9.8500	2.5284	0.3899	2.9183	0.0000	13,437.30 01	13,437.30 01	0.4732	0.0736	13,471.05 64

Pines at Sunrise Village Fullerton - Orange County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	8/11/2022	5	30	
2	Site Preparation	Site Preparation	8/12/2022	8/25/2022	5	10	
3	Grading	Grading	8/26/2022	10/6/2022	5	30	
4	Building Construction	Building Construction	10/7/2022	4/18/2024	5	400	
5	Paving	Paving	3/1/2024	5/23/2024	5	60	
6	Architectural Coating	Architectural Coating	5/24/2024	8/15/2024	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 1.42

Residential Indoor: 642,672; Residential Outdoor: 214,224; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,792 (Architectural Coating – sqft)

OffRoad Equipment

Pines at Sunrise Village Fullerton - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Pines at Sunrise Village Fullerton - Orange County, Winter

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	6	15.00	0.00	522.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	127.00	28.00	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	25.00	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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

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					3.7647	0.0000	3.7647	0.5700	0.0000	0.5700			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	3.7647	1.2427	5.0073	0.5700	1.1553	1.7253		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Pines at Sunrise Village Fullerton - Orange County, Winter

3.2 Demolition - 2022

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	0.1219	4.1086	1.2791	0.0127	0.3029	0.0122	0.3152	0.0829	0.0117	0.0946		1,424.7807	1,424.7807	0.1533		1,428.6123
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	0.1800	4.1412	1.6708	0.0142	0.4706	0.0133	0.4839	0.1274	0.0127	0.1401		1,568.6275	1,568.6275	0.1562		1,572.5316

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					1.3948	0.0000	1.3948	0.2112	0.0000	0.2112			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	1.3948	1.2427	2.6375	0.2112	1.1553	1.3665	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Pines at Sunrise Village Fullerton - Orange County, Winter

3.2 Demolition - 2022

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	0.1219	4.1086	1.2791	0.0127	0.2891	0.0122	0.3014	0.0795	0.0117	0.0912		1,424.7807	1,424.7807	0.1533		1,428.6123
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
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1589	1.0600e-003	0.1600	0.0423	9.8000e-004	0.0433		143.8468	143.8468	2.9000e-003		143.9194
Total	0.1800	4.1412	1.6708	0.0142	0.4480	0.0133	0.4613	0.1219	0.0127	0.1345		1,568.6275	1,568.6275	0.1562		1,572.5316

3.3 Site Preparation - 2022

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Pines at Sunrise Village Fullerton - Orange County, Winter

3.3 Site Preparation - 2022

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
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
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033
Total	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	6.6936	1.6126	8.3061	3.6793	1.4836	5.1629	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Pines at Sunrise Village Fullerton - Orange County, Winter

3.3 Site Preparation - 2022

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
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
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		172.6162	172.6162	3.4800e-003		172.7033
Total	0.0697	0.0391	0.4701	1.7300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		172.6162	172.6162	3.4800e-003		172.7033

3.4 Grading - 2022

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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.6733	1.6349	10.3082	3.5965	1.5041	5.1006		6,011.4105	6,011.4105	1.9442		6,060.0158

Pines at Sunrise Village Fullerton - Orange County, Winter

3.4 Grading - 2022

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
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
Worker	0.0774	0.0435	0.5224	1.9200e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		191.7958	191.7958	3.8700e-003		191.8925
Total	0.0774	0.0435	0.5224	1.9200e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		191.7958	191.7958	3.8700e-003		191.8925

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					3.2135	0.0000	3.2135	1.3325	0.0000	1.3325			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.2135	1.6349	4.8484	1.3325	1.5041	2.8366	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Pines at Sunrise Village Fullerton - Orange County, Winter

3.4 Grading - 2022

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
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
Worker	0.0774	0.0435	0.5224	1.9200e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		191.7958	191.7958	3.8700e-003		191.8925
Total	0.0774	0.0435	0.5224	1.9200e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		191.7958	191.7958	3.8700e-003		191.8925

3.5 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2022

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
Vendor	0.0737	2.4776	0.7536	6.6600e-003	0.1789	4.9300e-003	0.1838	0.0515	4.7100e-003	0.0562		726.8500	726.8500	0.0599		728.3462
Worker	0.4918	0.2761	3.3170	0.0122	1.4196	9.0100e-003	1.4286	0.3765	8.2900e-003	0.3848		1,217.9031	1,217.9031	0.0246		1,218.5175
Total	0.5655	2.7537	4.0706	0.0189	1.5985	0.0139	1.6124	0.4280	0.0130	0.4410		1,944.7531	1,944.7531	0.0844		1,946.8637

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2022

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
Vendor	0.0737	2.4776	0.7536	6.6600e-003	0.1712	4.9300e-003	0.1762	0.0496	4.7100e-003	0.0543		726.8500	726.8500	0.0599		728.3462
Worker	0.4918	0.2761	3.3170	0.0122	1.3455	9.0100e-003	1.3545	0.3583	8.2900e-003	0.3666		1,217.9031	1,217.9031	0.0246		1,218.5175
Total	0.5655	2.7537	4.0706	0.0189	1.5167	0.0139	1.5307	0.4079	0.0130	0.4209		1,944.7531	1,944.7531	0.0844		1,946.8637

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.0562	1.8649	0.6925	6.4500e-003	0.1789	2.4000e-003	0.1813	0.0515	2.2900e-003	0.0538		705.0659	705.0659	0.0553			706.4493
Worker	0.4671	0.2506	3.0885	0.0117	1.4196	8.8600e-003	1.4284	0.3765	8.1500e-003	0.3846		1,171.1411	1,171.1411	0.0223			1,171.6979
Total	0.5233	2.1155	3.7810	0.0182	1.5985	0.0113	1.6097	0.4280	0.0104	0.4384		1,876.2070	1,876.2070	0.0776			1,878.1472

Mitigated Construction On-Site

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

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0562	1.8649	0.6925	6.4500e-003	0.1712	2.4000e-003	0.1736	0.0496	2.2900e-003	0.0519		705.0659	705.0659	0.0553		706.4493
Worker	0.4671	0.2506	3.0885	0.0117	1.3455	8.8600e-003	1.3544	0.3583	8.1500e-003	0.3665		1,171.1411	1,171.1411	0.0223		1,171.6979
Total	0.5233	2.1155	3.7810	0.0182	1.5167	0.0113	1.5280	0.4079	0.0104	0.4183		1,876.2070	1,876.2070	0.0776		1,878.1472

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.0542	1.8418	0.6776	6.3900e-003	0.1789	2.3300e-003	0.1812	0.0515	2.2300e-003	0.0537		699.5518	699.5518	0.0544		700.9121
Worker	0.4454	0.2282	2.8721	0.0113	1.4196	8.7000e-003	1.4283	0.3765	8.0100e-003	0.3845		1,124.7451	1,124.7451	0.0202		1,125.2502
Total	0.4996	2.0700	3.5497	0.0177	1.5984	0.0110	1.6095	0.4280	0.0102	0.4382		1,824.2970	1,824.2970	0.0746		1,826.1623

Mitigated Construction On-Site

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

Pines at Sunrise Village Fullerton - Orange County, Winter

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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
Vendor	0.0542	1.8418	0.6776	6.3900e-003	0.1712	2.3300e-003	0.1736	0.0496	2.2300e-003	0.0518		699.5518	699.5518	0.0544			700.9121
Worker	0.4454	0.2282	2.8721	0.0113	1.3455	8.7000e-003	1.3542	0.3583	8.0100e-003	0.3663		1,124.745 1	1,124.745 1	0.0202			1,125.250 2
Total	0.4996	2.0700	3.5497	0.0177	1.5167	0.0110	1.5278	0.4079	0.0102	0.4181		1,824.297 0	1,824.297 0	0.0746			1,826.162 3

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140			2,225.396 3
Paving	0.0620					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.0502	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140			2,225.396 3

Pines at Sunrise Village Fullerton - Orange County, Winter

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036
Total	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0502	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Pines at Sunrise Village Fullerton - Orange County, Winter

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0526	0.0270	0.3392	1.3300e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		132.8439	132.8439	2.3900e-003		132.9036
Total	0.0526	0.0270	0.3392	1.3300e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		132.8439	132.8439	2.3900e-003		132.9036

3.7 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	33.3905					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	33.5713	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Pines at Sunrise Village Fullerton - Orange County, Winter

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0877	0.0449	0.5654	2.2200e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		221.4065	221.4065	3.9800e-003		221.5060
Total	0.0877	0.0449	0.5654	2.2200e-003	0.2794	1.7100e-003	0.2812	0.0741	1.5800e-003	0.0757		221.4065	221.4065	3.9800e-003		221.5060

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	33.3905					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	33.5713	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

Pines at Sunrise Village Fullerton - Orange County, Winter

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.0877	0.0449	0.5654	2.2200e-003	0.2649	1.7100e-003	0.2666	0.0705	1.5800e-003	0.0721		221.4065	221.4065	3.9800e-003		221.5060
Total	0.0877	0.0449	0.5654	2.2200e-003	0.2649	1.7100e-003	0.2666	0.0705	1.5800e-003	0.0721		221.4065	221.4065	3.9800e-003		221.5060

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Pines at Sunrise Village Fullerton - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	1.6661	6.1891	22.2200	0.0923	9.4553	0.0654	9.5207	2.5284	0.0607	2.5891		9,399.279 1	9,399.279 1	0.3728		9,408.597 8
Unmitigated	1.6661	6.1891	22.2200	0.0923	9.4553	0.0654	9.5207	2.5284	0.0607	2.5891		9,399.279 1	9,399.279 1	0.3728		9,408.597 8

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	841.80	841.80	841.80	2,876,558	2,876,558
Parking Lot	0.00	0.00	0.00		
Single Family Housing	462.56	462.56	462.56	1,580,638	1,580,638
Total	1,304.36	1,304.36	1,304.36	4,457,196	4,457,196

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
Condo/Townhouse	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Pines at Sunrise Village Fullerton - Orange County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Single Family Housing	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326
NaturalGas Unmitigated	0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

Pines at Sunrise Village Fullerton - Orange County, Winter

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	lb/day										lb/day					
Condo/Townhouse	5559.58	0.0600	0.5124	0.2180	3.2700e-003		0.0414	0.0414		0.0414	0.0414		654.0685	654.0685	0.0125	0.0120	657.9553
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
Single Family Housing	3464.22	0.0374	0.3193	0.1359	2.0400e-003		0.0258	0.0258		0.0258	0.0258		407.5554	407.5554	7.8100e-003	7.4700e-003	409.9773
Total		0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	5.55958	0.0600	0.5124	0.2180	3.2700e-003		0.0414	0.0414		0.0414	0.0414		654.0685	654.0685	0.0125	0.0120	657.9553
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
Single Family Housing	3.46422	0.0374	0.3193	0.1359	2.0400e-003		0.0258	0.0258		0.0258	0.0258		407.5554	407.5554	7.8100e-003	7.4700e-003	409.9773
Total		0.0973	0.8316	0.3539	5.3100e-003		0.0672	0.0672		0.0672	0.0672		1,061.6239	1,061.6239	0.0204	0.0195	1,067.9326

6.0 Area Detail

Pines at Sunrise Village Fullerton - Orange County, Winter

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1
Unmitigated	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.397 2	2,976.397 2	0.0801	0.0541	2,994.526 1

Pines at Sunrise Village Fullerton - Orange County, Winter

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	0.5489					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2706	2.3124	0.9840	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,952.0000	2,952.0000	0.0566	0.0541	2,969.5423
Landscaping	0.4081	0.1560	13.5406	7.2000e-004		0.0750	0.0750		0.0750	0.0750		24.3972	24.3972	0.0235		24.9838
Total	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.3972	2,976.3972	0.0801	0.0541	2,994.5261

Pines at Sunrise Village Fullerton - Orange County, Winter

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	0.5489					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2706	2.3124	0.9840	0.0148		0.1870	0.1870		0.1870	0.1870	0.0000	2,952.0000	2,952.0000	0.0566	0.0541	2,969.5423
Landscaping	0.4081	0.1560	13.5406	7.2000e-004		0.0750	0.0750		0.0750	0.0750		24.3972	24.3972	0.0235		24.9838
Total	7.5339	2.4684	14.5246	0.0155		0.2620	0.2620		0.2620	0.2620	0.0000	2,976.3972	2,976.3972	0.0801	0.0541	2,994.5261

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Pines at Sunrise Village Fullerton - Orange County, Winter

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
