

Montecito Senior Housing Future - Los Angeles-South Coast County, Annual

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Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	68.00	Dwelling Unit	0.77	32,560.00	194
Enclosed Parking with Elevator	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11	Operational Year	2019		
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MMWhr)	1227.89	CH4 Intensity (lb/MMWhr)	0.029	N2O Intensity (lb/MMWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Developer information
- Land Use - Developer information
- Construction Phase - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment -
- Off-road Equipment -
- Grading - Developer information
- Demolition - Developer information
- Trips and VMT - Developer information

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Vehicle Trips - Traffic study net ADT input assumptions

Woodstoves - Developer Information

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	1,368.00	0.00
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	45
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	4.00	23.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	200.00	390.00
tblConstructionPhase	NumDays	10.00	64.00
tblConstructionPhase	PhaseEndDate	4/20/2018	8/31/2017
tblConstructionPhase	PhaseEndDate	4/6/2018	7/31/2017
tblConstructionPhase	PhaseStartDate	4/7/2018	8/1/2017
tblFireplaces	NumberGas	57.80	0.00
tblFireplaces	NumberNoFireplace	6.80	68.00
tblFireplaces	NumberWood	3.40	0.00
tblGrading	AcresOfGrading	8.63	0.38
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	BuildingSpacesSquareFeet	68,000.00	32,560.00
tblLandUse	LandUsesSquareFeet	68,000.00	32,560.00
tblLandUse	LotAcresage	1.79	0.77
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	VendorTripNumber	0.00	11.00
tblVehicleTrips	ST_TR	6.39	3.44
tblVehicleTrips	SU_TR	5.86	3.44

tblVehicleTrips	WD_TR	6.65	3.44
tblWoodstoves	NumberCatalytic	3.40	0.00
tblWoodstoves	NumberNoncatalytic	3.40	0.00

2.0 Emissions Summary

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					
2017	0.1920	1.5419	1.0039	2.1800e-003	0.1550	0.0758	0.2308	0.0709	0.0722	0.1430	0.0000	196.2372	196.2372	0.0317	0.0000	197.0295
2018	0.4249	2.5123	2.2799	4.2300e-003	0.0948	0.1417	0.2365	0.0254	0.1368	0.1622	0.0000	364.5810	364.5810	0.0544	0.0000	365.9396
2019	0.1317	0.4173	0.4065	7.8000e-004	0.0182	0.0228	0.0410	4.8700e-003	0.0221	0.0270	0.0000	66.8435	66.8435	8.9800e-003	0.0000	67.0679
Maximum	0.4249	2.5123	2.2799	4.2300e-003	0.1550	0.1417	0.2365	0.0709	0.1368	0.1622	0.0000	364.5810	364.5810	0.0544	0.0000	365.9396

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					
2017	0.1920	1.5419	1.0039	2.1800e-003	0.0682	0.0758	0.1440	0.0295	0.0722	0.1017	0.0000	196.2371	196.2371	0.0317	0.0000	197.0293
2018	0.4249	2.5123	2.2799	4.2300e-003	0.0585	0.1417	0.2002	0.0165	0.1368	0.1533	0.0000	364.5807	364.5807	0.0544	0.0000	365.9393
2019	0.1317	0.4173	0.4065	7.8000e-004	0.0112	0.0228	0.0340	3.1500e-003	0.0221	0.0252	0.0000	66.8434	66.8434	8.9800e-003	0.0000	67.0679

Maximum	0.4249	2.5123	2.2799	4.2300e-003	0.0682	0.1417	0.2002	0.0295	0.1368	0.1533	0.0000	364.5807	364.5807	0.0544	0.0000	365.9393
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	48.56	0.00	25.60	51.41	0.00	15.65	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	7-3-2017	10-2-2017	0.6704					0.6704				
2	10-3-2017	1-2-2018	0.8008					0.8008				
3	1-3-2018	4-2-2018	0.7089					0.7089				
4	4-3-2018	7-2-2018	0.7147					0.7147				
5	7-3-2018	10-2-2018	0.7226					0.7226				
6	10-3-2018	1-2-2019	0.7894					0.7894				
7	1-3-2019	4-2-2019	0.5200					0.5200				
		Highest	0.8008					0.8008				

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.1513	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	0.0000	1.1751
Energy	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	285.6289	285.6289	6.5700e-003	1.9400e-003	286.3713
Mobile	0.0931	0.4768	1.2983	3.9600e-003	0.3034	4.6300e-003	0.3080	0.0814	4.3500e-003	0.0857	0.0000	364.7597	364.7597	0.0214	0.0000	365.2949
Waste						0.0000	0.0000		0.0000	0.0000	6.3496	0.0000	6.3496	0.3753	0.0000	15.7308
Water						0.0000	0.0000		0.0000	0.0000	1.4056	49.4141	50.8197	0.1455	3.6500e-003	55.5458
Total	0.2484	0.5200	2.0186	4.2200e-003	0.3034	0.0113	0.3147	0.0814	0.0110	0.0924	7.7551	700.9496	708.7048	0.5499	5.5900e-003	724.1179

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1513	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	0.0000	1.1751
Energy	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	285.6289	285.6289	6.5700e-003	1.9400e-003	286.3713
Mobile	0.0931	0.4768	1.2983	3.9600e-003	0.3034	4.6300e-003	0.3080	0.0814	4.3500e-003	0.0857	0.0000	364.7597	364.7597	0.0214	0.0000	365.2949
Waste						0.0000	0.0000		0.0000	0.0000	6.3496	0.0000	6.3496	0.3753	0.0000	15.7308
Water						0.0000	0.0000		0.0000	0.0000	1.4056	49.4141	50.8197	0.1455	3.6500e-003	55.5458
Total	0.2484	0.5200	2.0186	4.2200e-003	0.3034	0.0113	0.3147	0.0814	0.0110	0.0924	7.7551	700.9496	708.7048	0.5499	5.5900e-003	724.1179

	ROG	NOx	CO	SO2	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	Shoring	Site Preparation	7/3/2017	7/31/2017	5	21	
2	Grading	Grading	8/1/2017	8/31/2017	5	23	
3	Building Construction	Building Construction	9/1/2017	2/28/2019	5	390	
4	Architectural Coatings	Architectural Coating	12/1/2018	2/28/2019	5	64	

Acres of Grading (Site Preparation Phase) : 0

Acres of Grading (Grading Phase): 0.38

Acres of Paving: 0.51

Residential Indoor: 65,934; Residential Outdoor: 21,978; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coatings	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	6.00	187	0.41
Shoring	Graders	1	8.00	187	0.41
Shoring	Cranes	0		231	0.29
Shoring	Forklifts	0		89	0.20
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Shoring	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Shoring	Welders	0		46	0.45
Grading	Air Compressors	0		78	0.48
Shoring	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Shoring	Generator Sets	0		84	0.74
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	989.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDDT
Shoring	3	8.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDDT
Architectural Coatings	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDDT

Building Construction	7	59.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDDT
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3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Clean Paved Roads

3.2 Shoring - 2017

Unmitigated Construction On-Site

	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NonBiogenic CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0609	0.0000	0.0609	0.0310	0.0000	0.0310	0.0000	0.0000	0.0000	0.0000		0.0000
Off-Road	0.0203	0.2332	0.0882	1.8000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.8051	16.8051	5.1500e-003		16.9339
Total	0.0203	0.2332	0.0882	1.8000e-004	0.0609	0.0110	0.0719	0.0310	0.0101	0.0411	0.0000	16.8051	16.8051	5.1500e-003	0.0000	16.9339

Unmitigated Construction Off-Site

	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NonBiogenic 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
Vendor	6.1000e-004	0.0154	4.5000e-003	3.0000e-005	7.3000e-004	1.3000e-004	8.5000e-004	2.1000e-004	1.2000e-004	3.3000e-004	0.0000	2.9286	2.9286	2.1000e-004	0.0000	2.9339
Worker	5.3000e-004	4.6000e-004	4.9000e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.9404	0.9404	4.0000e-005	0.0000	0.9414

Total	1.1400e-003	0.0159	9.4000e-003	4.0000e-005	1.6500e-003	1.4000e-004	1.7800e-003	4.5000e-004	1.3000e-004	5.8000e-004	0.0000	3.8690	3.8690	2.5000e-004	0.0000	3.8753
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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					0.0226	0.0000	0.0226	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.2332	0.0882	1.8000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.8051	16.8051	5.1500e-003	0.0000	16.9339
Total	0.0203	0.2332	0.0882	1.8000e-004	0.0226	0.0110	0.0335	0.0115	0.0101	0.0216	0.0000	16.8051	16.8051	5.1500e-003	0.0000	16.9339

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	6.1000e-004	0.0154	4.5000e-003	3.0000e-005	5.0000e-004	1.3000e-004	6.2000e-004	1.5000e-004	1.2000e-004	2.7000e-004	0.0000	2.9286	2.9286	2.1000e-004	0.0000	2.9339
Worker	5.3000e-004	4.6000e-004	4.9000e-003	1.0000e-005	5.6000e-004	1.0000e-005	5.7000e-004	1.6000e-004	1.0000e-005	1.6000e-004	0.0000	0.9404	0.9404	4.0000e-005	0.0000	0.9414
Total	1.1400e-003	0.0159	9.4000e-003	4.0000e-005	1.0600e-003	1.4000e-004	1.1900e-003	3.1000e-004	1.3000e-004	4.3000e-004	0.0000	3.8690	3.8690	2.5000e-004	0.0000	3.8753

3.3 Grading - 2017
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					0.0521	0.0000	0.0521	0.0286	0.0000	0.0286	0.0000	0.0000	0.0000	0.0000		0.0000
Off-Road	0.0184	0.2104	0.0809	1.6000e-004		0.0101	0.0101		9.2400e-003	9.2400e-003	0.0000	15.0741	15.0741	4.6200e-003		15.1895
Total	0.0184	0.2104	0.0809	1.6000e-004	0.0521	0.0101	0.0622	0.0286	9.2400e-003	0.0378	0.0000	15.0741	15.0741	4.6200e-003	0.0000	15.1895

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	5.6400e-003	0.1779	0.0362	4.0000e-004	8.5000e-003	9.1000e-004	9.4100e-003	2.3300e-003	8.7000e-004	3.2100e-003	0.0000	39.3349	39.3349	2.8200e-003		39.4053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	5.8000e-004	5.0000e-004	5.3700e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0200e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	1.0299	1.0299	4.0000e-005		1.0310
Total	6.2200e-003	0.1784	0.0416	4.1000e-004	9.5100e-003	9.2000e-004	0.0104	2.6000e-003	8.8000e-004	3.4900e-003	0.0000	40.3649	40.3649	2.8600e-003	0.0000	40.4363

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					0.0193	0.0000	0.0193	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0184	0.2104	0.0809	1.6000e-004		0.0101	0.0101		9.2400e-003	9.2400e-003	0.0000	15.0740	15.0740	4.6200e-003	15.1895
Total	0.0184	0.2104	0.0809	1.6000e-004	0.0193	0.0101	0.0294	0.0106	9.2400e-003	0.0198	0.0000	15.0740	15.0740	4.6200e-003	15.1895

Mitigated Construction Off-Site

	ROG	NOK	CO	SO2	Fugitive 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	5.6400e-003	0.1779	0.0362	4.0000e-004	5.6200e-003	9.1000e-004	6.5400e-003	1.6300e-003	8.7000e-004	2.5000e-003	0.0000	39.3349	39.3349	2.8200e-003	0.0000	39.4053
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	5.8000e-004	5.0000e-004	5.3700e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.2000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	1.0299	1.0299	4.0000e-005	0.0000	1.0310
Total	6.2200e-003	0.1784	0.0416	4.1000e-004	6.2300e-003	9.2000e-004	7.1600e-003	1.8000e-003	8.8000e-004	2.6800e-003	0.0000	40.3649	40.3649	2.8600e-003	0.0000	40.4363

3.4 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOK	CO	SO2	Fugitive 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	0.1275	0.8272	0.6173	9.5000e-004		0.0530	0.0530		0.0511	0.0511	0.0000	79.7290	79.7290	0.0168	0.0000	80.1481
Total	0.1275	0.8272	0.6173	9.5000e-004		0.0530	0.0530		0.0511	0.0511	0.0000	79.7290	79.7290	0.0168	0.0000	80.1481

Unmitigated Construction Off-Site

	ROG	NOK	CO	SO2	Fugitive 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	2.5100e-003	0.0631	0.0184	1.2000e-004	2.9800e-003	5.2000e-004	3.5000e-003	8.6000e-004	5.0000e-004	1.3600e-003	0.0000	11.9935	11.9935	8.6000e-004	0.0000	12.0151
Worker	0.0159	0.0138	0.1481	3.1000e-004	0.0278	2.6000e-004	0.0281	7.3800e-003	2.4000e-004	7.6300e-003	0.0000	28.4017	28.4017	1.1900e-003	0.0000	28.4313
Total	0.0185	0.0769	0.1665	4.3000e-004	0.0308	7.8000e-004	0.0316	8.2400e-003	7.4000e-004	8.9900e-003	0.0000	40.3951	40.3951	2.0500e-003	0.0000	40.4464

Mitigated Construction On-Site

Category	ROG	NOK	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr													MT/yr		
Off-Road	0.1275	0.8272	0.6173	9.5000e-004		0.0530	0.0530		0.0511	0.0511	0.0000	79.7289	79.7289	0.0168	0.0000	80.1480
Total	0.1275	0.8272	0.6173	9.5000e-004		0.0530	0.0530		0.0511	0.0511	0.0000	79.7289	79.7289	0.0168	0.0000	80.1480

Mitigated Construction Off-Site

[illegible]

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	
Vendor	2.5100e-003	0.0631	0.0184	1.2000e-004	2.0300e-003	5.2000e-004	2.5500e-003	6.3000e-004	5.0000e-004	1.1200e-003	0.0000	11.9935	11.9935	8.6000e-004	0.0000	12.0151
Worker	0.0159	0.0138	0.1481	3.1000e-004	0.0170	2.6000e-004	0.0172	4.7200e-003	2.4000e-004	4.9700e-003	0.0000	28.4017	28.4017	1.1900e-003	0.0000	28.4313
Total	0.0185	0.0769	0.1665	4.3000e-004	0.0190	7.8000e-004	0.0198	5.3500e-003	7.4000e-004	6.0900e-003	0.0000	40.3951	40.3951	2.0500e-003	0.0000	40.4464

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3382	2.2744	1.8109	2.8800e-003		0.1381	0.1381		0.1333	0.1333	0.0000	240.4262	240.4262	0.0484	0.0000	241.6362
Total	0.3382	2.2744	1.8109	2.8800e-003		0.1381	0.1381		0.1333	0.1333	0.0000	240.4262	240.4262	0.0484	0.0000	241.6362

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic 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	6.7200e-003	0.1798	0.0505	3.8000e-004	9.0400e-003	1.2500e-003	0.0103	2.6100e-003	1.1900e-003	3.8000e-003	0.0000	36.2703	36.2703	2.4900e-003	0.0000	36.3325

Worker	0.0427	0.0365	0.3925	9.3000e-004	0.0844	7.7000e-004	0.0851	0.0224	7.1000e-004	0.0231	0.0000	83.8318	83.8318	3.1500e-003	0.0000	83.9106
Total	0.0494	0.2163	0.4431	1.3100e-003	0.0934	2.0200e-003	0.0954	0.0250	1.9000e-003	0.0269	0.0000	120.1020	120.1020	5.6400e-003	0.0000	120.2430

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3382	2.2744	1.8109	2.8800e-003		0.1381	0.1381		0.1333	0.1333	0.0000	240.4259	240.4259	0.0484	0.0000	241.6359
Total	0.3382	2.2744	1.8109	2.8800e-003		0.1381	0.1381		0.1333	0.1333	0.0000	240.4259	240.4259	0.0484	0.0000	241.6359

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic 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	6.7200e-003	0.1798	0.0505	3.8000e-004	6.1600e-003	1.2500e-003	7.4100e-003	1.9000e-003	1.1900e-003	3.1000e-003	0.0000	36.2703	36.2703	2.4900e-003	0.0000	36.3325
Worker	0.0427	0.0365	0.3925	9.3000e-004	0.0515	7.7000e-004	0.0522	0.0143	7.1000e-004	0.0150	0.0000	83.8318	83.8318	3.1500e-003	0.0000	83.9106
Total	0.0494	0.2163	0.4431	1.3100e-003	0.0576	2.0200e-003	0.0596	0.0162	1.9000e-003	0.0181	0.0000	120.1020	120.1020	5.6400e-003	0.0000	120.2430

3.4 Building Construction - 2019

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	0.0489	0.3436	0.2900	4.7000e-004		0.0197	0.0197		0.0190	0.0190	0.0000	39.3605	39.3605	7.5700e-003	0.0000	39.5496
Total	0.0489	0.3436	0.2900	4.7000e-004		0.0197	0.0197		0.0190	0.0190	0.0000	39.3605	39.3605	7.5700e-003	0.0000	39.5496

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	0.0279	7.6400e-003	6.0000e-005	1.4900e-003	1.8000e-004	1.6700e-003	4.3000e-004	1.7000e-004	6.0000e-004	0.0000	5.9140	5.9140	3.9000e-004	0.0000	5.9239
Worker	6.3500e-003	5.3000e-003	0.0576	1.5000e-004	0.0139	1.2000e-004	0.0140	3.6900e-003	1.1000e-004	3.8000e-003	0.0000	13.3618	13.3618	4.6000e-004	0.0000	13.3733
Total	7.3500e-003	0.0332	0.0652	2.1000e-004	0.0154	3.0000e-004	0.0157	4.1200e-003	2.8000e-004	4.4000e-003	0.0000	19.2759	19.2759	8.5000e-004	0.0000	19.2972

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	0.0489	0.3436	0.2900	4.7000e-004		0.0197	0.0197		0.0190	0.0190	0.0000	39.3604	39.3604	7.5700e-003	0.0000	39.5496
Total	0.0489	0.3436	0.2900	4.7000e-004		0.0197	0.0197		0.0190	0.0190	0.0000	39.3604	39.3604	7.5700e-003	0.0000	39.5496

Mitigated Construction Off-Site

	ROG	NOK	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	0.0279	7.6400e-003	6.0000e-005	1.0200e-003	1.8000e-004	1.1900e-003	3.1000e-004	1.7000e-004	4.8000e-004	0.0000	5.9140	5.9140	3.9000e-004	0.0000	5.9239
Worker	6.3500e-003	5.3000e-003	0.0576	1.5000e-004	8.4800e-003	1.2000e-004	8.6000e-003	2.3600e-003	1.1000e-004	2.4700e-003	0.0000	13.3618	13.3618	4.6000e-004	0.0000	13.3733
Total	7.3500e-003	0.0332	0.0652	2.1000e-004	9.5000e-003	3.0000e-004	9.7900e-003	2.6700e-003	2.8000e-004	2.9500e-003	0.0000	19.2759	19.2759	8.5000e-004	0.0000	19.2972

3.5 Architectural Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOK	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0334					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1400e-003	0.0211	0.0195	3.0000e-005		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	2.6809	2.6809	2.5000e-004	0.0000	2.6873
Total	0.0366	0.0211	0.0195	3.0000e-005		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	2.6809	2.6809	2.5000e-004	0.0000	2.6873

Worker	1.2900e-003	1.0800e-003	0.0117	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.7177	2.7177	9.0000e-005	0.0000	2.7200
Total	1.2900e-003	1.0800e-003	0.0117	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.7177	2.7177	9.0000e-005	0.0000	2.7200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0684					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Off-Road	5.7300e-003	0.0395	0.0396	5.0000e-005		2.7700e-003	2.7700e-003		2.7700e-003	2.7700e-003	0.0000	5.4895	5.4895	4.6000e-004	0.0000	5.5011
Total	0.0742	0.0395	0.0396	6.0000e-005		2.7700e-003	2.7700e-003		2.7700e-003	2.7700e-003	0.0000	5.4895	5.4895	4.6000e-004	0.0000	5.5011

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic 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
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	1.2900e-003	1.0800e-003	0.0117	3.0000e-005	1.7200e-003	2.0000e-005	1.7500e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.7177	2.7177	9.0000e-005	0.0000	2.7200
Total	1.2900e-003	1.0800e-003	0.0117	3.0000e-005	1.7200e-003	2.0000e-005	1.7500e-003	4.8000e-004	2.0000e-005	5.0000e-004	0.0000	2.7177	2.7177	9.0000e-005	0.0000	2.7200

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bi-o- CO2	NBi-o- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0931	0.4768	1.2983	3.9600e-003	0.3034	4.6300e-003	0.3080	0.0814	4.3500e-003	0.0857	0.0000	364.7597	364.7597	0.0214	0.0000	365.2949
Unmitigated	0.0931	0.4768	1.2983	3.9600e-003	0.3034	4.6300e-003	0.3080	0.0814	4.3500e-003	0.0857	0.0000	364.7597	364.7597	0.0214	0.0000	365.2949

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	233.92	233.92	233.92	799,340	799,340
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	233.92	233.92	233.92	799,340	799,340

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Enclosed Parking with Elevator	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	245.1325	245.1325	5.7900e-003	1.2000e-003	245.6342
Electricity						0.0000	0.0000		0.0000	0.0000	0.0000	245.1325	245.1325	5.7900e-003	1.2000e-003	245.6342
Unmitigated														0.03	0.03	
NaturalGas	4.0900e-003	0.0350	0.0149	2.2000e-004	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371
Mitigated																
NaturalGas	4.0900e-003	0.0350	0.0149	2.2000e-004	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371
Unmitigated																

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					
Apartment's Mid Rise	758874	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartment Mid Rise	758874	4.0900e-003	0.0350	0.0149	2.2000e-004	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371
Enclosed Parking with Elevator	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	0.0000	0.0000
Total		4.0900e-003	0.0350	0.0149	2.2000e-004	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	2.8300e-003	0.0000	40.4964	40.4964	7.8000e-004	7.4000e-004	40.7371

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartment Mid Rise	286453	159.5432	3.7700e-003	7.8000e-004	159.8697
Enclosed Parking with Elevator	153672	85.5894	2.0200e-003	4.2000e-004	85.7646
Total		245.1325	5.7900e-003	1.2000e-003	245.6342

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Consumer Products	0.1191					0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0216	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003			3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	1.1751
Total	0.1513	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003			3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	1.1751

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	0.0105					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0216	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	0.0000	1.1751
Total	0.1513	8.1700e-003	0.7055	4.0000e-005		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	1.1469	1.1469	1.1300e-003	0.0000	1.1751

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

Mitigated	50.8197	0.1455	3.6500e-003	55.5458
Unmitigated	50.8197	0.1455	3.6500e-003	55.5458

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartment's Mid Rise	4.43047 / 2.79312	50.8197	0.1455	3.6500e-003	55.5458
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.8197	0.1455	3.6500e-003	55.5458

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartment's Mid Rise	4.43047 / 2.79312	50.8197	0.1455	3.6500e-003	55.5458
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.8197	0.1455	3.6500e-003	55.5458

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6,3496	0.3753	0.0000	15,7308
Unmitigated	6,3496	0.3753	0.0000	15,7308

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	31.28	6,3496	0.3753	0.0000	15,7308
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		6,3496	0.3753	0.0000	15,7308

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
Apartments Mid Rise	31.28	6.3496	0.3753	0.0000	15.7308
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		6.3496	0.3753	0.0000	15.7308

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

Montecito Senior Housing Future - Los Angeles-South Coast County, Summer

Montecito Senior Housing Future
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	68.00	Dwelling Unit	0.77	32,560.00	194
Enclosed Parking with Elevator	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2019
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MMWhr)	1227.89	CH4 Intensity (lb/MMWhr)	0.029	N2O Intensity (lb/MMWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Developer information

Land Use - Developer information

Construction Phase - Developer information

Off-road Equipment - Developer information

Off-road Equipment -

Off-road Equipment -

Grading - Developer information

Demolition - Developer information

Trips and VMT - Developer information

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Vehicle Trips - Traffic study net ADT input assumptions

Woodstoves - Developer information

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tb\ArchitecturalCoating	ConstArea_Parking	1,368.00	0.00
tb\ArchitecturalCoating	EF_Parking	100.00	0.00
tb\ConstDustMitigation	CleanPavedRoadPercentReduction	0	45
tb\ConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tb\ConstructionPhase	NumDays	4.00	23.00
tb\ConstructionPhase	NumDays	2.00	21.00
tb\ConstructionPhase	NumDays	200.00	390.00
tb\ConstructionPhase	NumDays	10.00	64.00
tb\ConstructionPhase	PhaseEndDate	4/20/2018	8/31/2017
tb\ConstructionPhase	PhaseEndDate	4/6/2018	7/31/2017
tb\ConstructionPhase	PhaseStartDate	4/7/2018	8/1/2017
tb\Fireplaces	NumberGas	57.80	0.00
tb\Fireplaces	NumberNoFireplace	6.80	68.00
tb\Fireplaces	NumberWood	3.40	0.00
tb\Grading	AcresOfGrading	8.63	0.38
tb\Grading	MaterialExported	0.00	10,000.00
tb\LandUse	BuildingsSpaceSquareFeet	68,000.00	32,560.00
tb\LandUse	LandUseSquareFeet	68,000.00	32,560.00
tb\LandUse	LotAcreage	1.79	0.77
tb\ProjectCharacteristics	OperationalYear	2018	2019
tb\TripsAndVMT	VendorTripNumber	0.00	11.00
tb\VehicleTrips	ST_TR	6.39	3.44
tb\VehicleTrips	SU_TR	5.86	3.44
tb\VehicleTrips	WD_TR	6.65	3.44
tb\Woodstoves	NumberCatalytic	3.40	0.00

lb/Woodstoves	NumberNoncatalytic	3.40	0.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NonBiogenic CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2017	3.3917	33.2768	18.3969	0.0504	5.9594	1.2495	7.0173	2.9977	1.2047	3.9714	0.0000	5,344.2244	5,344.2244	0.7122	0.0000	5,362.0298
2018	6.5168	21.0779	19.9339	0.0369	0.8640	1.2252	2.0892	0.2307	1.1878	1.4185	0.0000	3,512.2545	3,512.2545	0.4894	0.0000	3,524.4885
2019	6.1223	19.3493	19.0895	0.0365	0.8640	1.0596	1.9236	0.2308	1.0274	1.2581	0.0000	3,467.3631	3,467.3631	0.4609	0.0000	3,478.8869
Maximum	6.5168	33.2768	19.9339	0.0504	5.9594	1.2495	7.0173	2.9977	1.2047	3.9714	0.0000	5,344.2244	5,344.2244	0.7122	0.0000	5,362.0298

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NonBiogenic CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2017	3.3917	33.2768	18.3969	0.0504	2.2510	1.2495	3.3089	1.1242	1.2047	2.0979	0.0000	5,344.2244	5,344.2244	0.7122	0.0000	5,362.0298
2018	6.5168	21.0779	19.9339	0.0369	0.5310	1.2252	1.7561	0.1490	1.1878	1.3367	0.0000	3,512.2545	3,512.2545	0.4894	0.0000	3,524.4885
2019	6.1223	19.3493	19.0895	0.0365	0.5310	1.0596	1.5905	0.1490	1.0274	1.1764	0.0000	3,467.3631	3,467.3631	0.4609	0.0000	3,478.8869
Maximum	6.5168	33.2768	19.9339	0.0504	2.2510	1.2495	3.3089	1.1242	1.2047	2.0979	0.0000	5,344.2244	5,344.2244	0.7122	0.0000	5,362.0298

	ROG	NOx	CO	SO2	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	56.90	0.00	39.66	58.89	0.00	30.64	0.00	0.00	0.00	0.00	0.00	0.00

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															
Area	0.8835	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	9.9500e-003	0.0000	10.3628
Energy	0.0224	0.1916	0.0815	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.6008	244.6008	4.6900e-003	4.4800e-003	246.0543
Mobile	0.5369	2.4953	7.3948	0.0226	1.6999	0.0254	1.7253	0.4550	0.0239	0.4789		2,290.6274	2,290.6274	0.1308		2,293.8982
Total	1.4428	2.7523	13.1201	0.0241	1.6999	0.0718	1.7717	0.4550	0.0703	0.5253	0.0000	2,545.3422	2,545.3422	0.1455	4.4800e-003	2,550.3153

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															
Area	0.8835	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	9.9500e-003	0.0000	10.3628
Energy	0.0224	0.1916	0.0815	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.6008	244.6008	4.6900e-003	4.4800e-003	246.0543
Mobile	0.5369	2.4953	7.3948	0.0226	1.6999	0.0254	1.7253	0.4550	0.0239	0.4789		2,290.6274	2,290.6274	0.1308		2,293.8982
Total	1.4428	2.7523	13.1201	0.0241	1.6999	0.0718	1.7717	0.4550	0.0703	0.5253	0.0000	2,545.3422	2,545.3422	0.1455	4.4800e-003	2,550.3153

	ROG	NOx	CO	SO2	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	Shoring	Site Preparation	7/3/2017	7/31/2017	5	21	
2	Grading	Grading	8/1/2017	8/31/2017	5	23	
3	Building Construction	Building Construction	9/1/2017	2/28/2019	5	390	
4	Architectural Coatings	Architectural Coating	12/1/2018	2/28/2019	5	64	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.38

Acres of Paving: 0.51

Residential Indoor: 65,934; Residential Outdoor: 21,978; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coatings	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	6.00	231	0.28
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	6.00	187	0.41
Shoring	Graders	1	8.00	187	0.41
Shoring	Cranes	0		231	0.28
Shoring	Forklifts	0		89	0.20
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Shoring	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Shoring	Welders	0		46	0.45

Grading		Air Compressors		0				76	0.48
Shoring		Rubber Tired Dozers		1	7.00	247	0.40		
Building Construction		Tractors/Loaders/Backhoes	1	6.00	97	0.37			
Grading		Tractors/Loaders/Backhoes	1	7.00	97	0.37			
Shoring		Generator Sets	0		84	0.74			
Building Construction		Welders	3	8.00	46	0.45			

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	989.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Shoring	3	8.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coalings	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	59.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Clean Paved Roads

3.2 Shoring - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615	1,764,2381	1,764,2381	0.5406			1,777,7521

Total	1.9297	22.2106	8.4016	0.0172	5.7996	1.0451	6.8446	2.9537	0.9615	3.9152		1,764,2381	1,764,2381	0.5406		1,777.7521
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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															
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	0.0574	1.4342	0.4081	2.9200e-003	0.0704	0.0120	0.0824	0.0203	0.0115	0.0318		310.8522	310.8522	0.0215		311.3896
Worker	0.0500	0.0384	0.4925	1.0400e-003	0.0894	8.3000e-004	0.0903	0.0237	7.7000e-004	0.0245		103.1134	103.1134	4.2800e-003		103.2204
Total	0.1075	1.4726	0.9006	3.9600e-003	0.1598	0.0128	0.1727	0.0440	0.0123	0.0563		413.9656	413.9656	0.0258		414.6100

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															
Fugitive Dust					2.1487	0.0000	2.1487	1.0944	0.0000	1.0944			0.0000			0.0000
Off-Road	1.9297	22.2106	8.4016	0.0172		1.0451	1.0451		0.9615	0.9615	0.0000	1,764,2381	1,764,2381	0.5406		1,777.7521
Total	1.9297	22.2106	8.4016	0.0172	2.1487	1.0451	3.1938	1.0944	0.9615	2.0558	0.0000	1,764,2381	1,764,2381	0.5406		1,777.7521

Mitigated Construction Off-Site

Hauling	0.4854	14.9469	3.0526	0.0352	0.7518	0.0790	0.8307	0.2061	0.0755	0.2816		3,796.2153	3,796.2153	0.2652		3,802.8458
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	0.0500	0.0384	0.4925	1.0400e-003	0.0894	8.3000e-004	0.0903	0.0237	7.7000e-004	0.0245		103.1134	103.1134	4.2800e-003		103.2204
Total	0.5354	14.9853	3.5451	0.0362	0.8412	0.0798	0.9209	0.2298	0.0763	0.3061		3,899.3287	3,899.3287	0.2695		3,906.0662

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															
Fugitive Dust					1.6799	0.0000	1.6799	0.9205	0.0000	0.9205			0.0000			0.0000
Off-Road	1.6023	18.2915	7.0342	0.0141		0.8738	0.8738		0.8039	0.8039	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636
Total	1.6023	18.2915	7.0342	0.0141	1.6799	0.8738	2.5536	0.9205	0.8039	1.7244	0.0000	1,444.8958	1,444.8958	0.4427		1,455.9636

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															
Hauling	0.4854	14.9469	3.0526	0.0352	0.4959	0.0790	0.5749	0.1433	0.0755	0.2188		3,796.2153	3,796.2153	0.2652		3,802.8458
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	0.0500	0.0384	0.4925	1.0400e-003	0.0544	8.3000e-004	0.0553	0.0151	7.7000e-004	0.0159		103.1134	103.1134	4.2800e-003		103.2204
Total	0.5354	14.9853	3.5451	0.0362	0.5504	0.0798	0.6301	0.1584	0.0763	0.2347		3,899.3287	3,899.3287	0.2695		3,906.0662

3.4 Building Construction - 2017

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															
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875		2,043.8641	2,043.8641	0.4298		2,054.6085

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															
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	0.0574	1.4342	0.4081	2.9200e-003	0.0704	0.0120	0.0824	0.0203	0.0115	0.0318		310.8522	310.8522	0.0215		311.3896
Worker	0.3690	0.2830	3.6321	7.6500e-003	0.6595	6.1300e-003	0.6656	0.1749	5.6600e-003	0.1806		760.4614	760.4614	0.0316		761.2506
Total	0.4264	1.7172	4.0402	0.0106	0.7299	0.0181	0.7481	0.1952	0.0172	0.2123		1,071.3136	1,071.3136	0.0531		1,072.6402

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															
Off-Road	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.8641	2,043.8641	0.4298		2,054.6085
Total	2.9653	19.2365	14.3568	0.0220		1.2313	1.2313		1.1875	1.1875	0.0000	2,043.8641	2,043.8641	0.4298		2,054.6085

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0574	1.4342	0.4081	2.9200e-003	0.0478	0.0120	0.0599	0.0147	0.0115	0.0262		310.8522	310.8522	0.0215		311.3896
Worker	0.3690	0.2830	3.6321	7.6500e-003	0.4015	6.1300e-003	0.4076	0.1116	5.6600e-003	0.1172		760.4614	760.4614	0.0316		761.2506
Total	0.4264	1.7172	4.0402	0.0106	0.4493	0.0181	0.4675	0.1263	0.0172	0.1435		1,071.3136	1,071.3136	0.0531		1,072.6402

3.4 Building Construction - 2018

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															
Off-Road	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.8389	2,030.8389	0.4088		2,041.0596

Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.8389	2,030.8389	0.4088		2,041.0596
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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															
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	0.0506	1.3482	0.3686	2.9100e-003	0.0704	9.5000e-003	0.0799	0.0203	9.0900e-003	0.0294		309.8474	309.8474	0.0204		310.3574
Worker	0.3260	0.2460	3.1864	7.4400e-003	0.6595	5.8800e-003	0.6654	0.1749	5.4200e-003	0.1803		739.6770	739.6770	0.0277		740.3706
Total	0.3766	1.5942	3.5551	0.0104	0.7299	0.0154	0.7453	0.1952	0.0145	0.2097		1,049.5244	1,049.5244	0.0481		1,050.7280

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															
Off-Road	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596

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	0.0506	1.3482	0.3686	2.9100e-003	0.0478	9.5000e-003	0.0573	0.0147	9.0900e-003	0.0238		309.8474	309.8474	0.0204		310.3674
Worker	0.3260	0.2460	3.1864	7.4400e-003	0.4015	5.8800e-003	0.4074	0.1116	5.4200e-003	0.1170		739.6770	739.6770	0.0277		740.3706
Total	0.3766	1.5942	3.5551	0.0104	0.4493	0.0154	0.4647	0.1263	0.0145	0.1408		1,049.5244	1,049.5244	0.0481		1,050.7280

3.4 Building Construction - 2019

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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
Total	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0457	1.2730	0.3378	2.8700e-003	0.0704	8.1200e-003	0.0785	0.0203	7.7600e-003	0.0280		306.6961	306.6961	0.0197		307.1874			
Worker	0.2947	0.2166	2.8448	7.1900e-003	0.6595	5.6900e-003	0.6652	0.1749	5.2400e-003	0.1801		715.6422	715.6422	0.0246		716.2567			
Total	0.3405	1.4897	3.1826	0.0101	0.7299	0.0138	0.7437	0.1952	0.0130	0.2082		1,022.3383	1,022.3383	0.0442		1,023.4442			

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															
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
Total	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210

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															
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
Vendor	0.0457	1.2730	0.3378	2.8700e-003	0.0478	8.1200e-003	0.0560	0.0147	7.7600e-003	0.0225		306.6961	306.6961	0.0197		307.1874
Worker	0.2947	0.2166	2.8448	7.1900e-003	0.4015	5.6900e-003	0.4072	0.1116	5.2400e-003	0.1168		715.6422	715.6422	0.0246		716.2567
Total	0.3405	1.4897	3.1826	0.0101	0.4493	0.0138	0.4631	0.1263	0.0130	0.1393		1,022.3383	1,022.3383	0.0442		1,023.4442

3.5 Architectural Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	3.4820	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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	0.0663	0.0500	0.6481	1.5100e-003	0.1341	1.2000e-003	0.1353	0.0356	1.1000e-003	0.0367		150.4428	150.4428	5.6400e-003		150.5839
Total	0.0663	0.0500	0.6481	1.5100e-003	0.1341	1.2000e-003	0.1353	0.0356	1.1000e-003	0.0367		150.4428	150.4428	5.6400e-003		150.5839

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	3.4820	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

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
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	0.0663	0.0500	0.6481	1.5100e-003	0.0817	1.2000e-003	0.0829	0.0227	1.1000e-003	0.0238		150.4428	150.4428	5.6400e-003		150.5839
Total	0.0663	0.0500	0.6481	1.5100e-003	0.0817	1.2000e-003	0.0829	0.0227	1.1000e-003	0.0238		150.4428	150.4428	5.6400e-003		150.5839

3.5 Architectural Coatings - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Total	3.4498	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
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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	0.0600	0.0441	0.5786	1.4600e-003	0.1341	1.1600e-003	0.1353	0.0356	1.0700e-003	0.0366		145.5544	145.5544	5.0000e-003		145.6793
Total	0.0600	0.0441	0.5786	1.4600e-003	0.1341	1.1600e-003	0.1353	0.0356	1.0700e-003	0.0366		145.5544	145.5544	5.0000e-003		145.6793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	3.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	3.4498	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0600	0.0441	0.5786	1.4600e-003	0.0817	1.1600e-003	0.0828	0.0227	1.0700e-003	0.0238		145.5544	145.5544	5.0000e-003		145.6793
Total	0.0600	0.0441	0.5786	1.4600e-003	0.0817	1.1600e-003	0.0828	0.0227	1.0700e-003	0.0238		145.5544	145.5544	5.0000e-003		145.6793

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5369	2.4953	7.3948	0.0226	1.6999	0.0254	1.7253	0.4550	0.0239	0.4789		2,290.6274	2,290.6274	0.1308		2,293.8982
Unmitigated	0.5369	2.4953	7.3948	0.0226	1.6999	0.0254	1.7253	0.4550	0.0239	0.4789		2,290.6274	2,290.6274	0.1308		2,293.8982

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated		Mitigated		
	Land Use	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
	Apartments Mid Rise	233.92	233.92	233.92	799,340		799,340	

Enclosed Parking with Elevator	0.00	0.00	0.00
Total	233.92	233.92	799,340

4.3 Trip Type Information

	Miles				Trip %				Trip Purpose %		
Land Use	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		
Apartment's Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3		
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0		

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartment's Mid Rise	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Enclosed Parking with Elevator	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

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	INBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas	0.0224	0.1916	0.0815	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.6008	244.6008	4.6900e-003	4.4800e-003	246.0543
Mitigated NaturalGas	0.0224	0.1916	0.0815	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.6008	244.6008	4.6900e-003	4.4800e-003	246.0543
Unmitigated																

5.2 Energy by Land Use - NaturalGas

Unmitigated

Category	lb/day										lb/day					
Mitigated	0.8835	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	9.9500e-003	0.0000	10.3628
Unmitigated	0.8835	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	9.9500e-003	0.0000	10.3628

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	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	0.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Coating																
Consumer Products	0.6528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1731	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309		10.1140	10.1140	9.9500e-003		10.3628
Total	0.8835	0.0654	5.6438	3.0000e-004		0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	9.9500e-003	0.0000	10.3628

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	NBiogenic CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural	0.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Coating																
Consumer Products	0.6528					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Hearth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1731	0.0654	5.6438	3.0000e-004	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309
Total	0.8835	0.0654	5.6438	3.0000e-004	0.0309	0.0309		0.0309	0.0309	0.0000	10.1140	10.1140	10.1140	9.9500e-003	0.0000	0.0000	0.0000	10.3628	

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Montecito Senior Housing Project
GHG Emissions Impact Compared to "No Action Taken" Scenario

Source	NAT (2019)	As Proposed (2019)	Reduction from NAT	Change from NAT
Area	1	1	-	0%
Energy	494	286	(207)	-42%
Mobile	520	365	(155)	-30%
Waste	16	16	-	0%
Water	56	56	-	0%
Construction	12	12	-	0%
Total Emissions	1,099	736	(362)	-33.0%

Land Use	NAT	As Proposed	Difference
Land Use	68 DU	68 DU	None
Traffic	234 net ADT	234 net ADT	None
Area	Same as proposed	Project assumptions	None
Energy	No State measures	See below	State measures
Mobile	No State measures	See below	State measures
Waste	Reduce construction w	Reduce construction wa	None
Water	Project assumptions	Project assumptions	None

Mobile source emissions Pavley emission standards (19.8% reduction)

Low carbon fuel standard (7.2% reduction)

Vehicle efficiency measures (2.8% reduction)

Energy Production Assun Natural gas transmission and distribution efficiency measures (7.4% reduction)

Natural gas extraction efficiency measures (1.6% reduction)

Renewables (electricity) portfolio standard (33% reduction)