

APPENDIX B1
CRITERIA POLLUTANT EMISSIONS CALCULATIONS

Santa Angelina Senior Apartment Homes - Orange County, Summer

Santa Angelina Senior Apartment Homes
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	3.97	1000sqft	0.09	3,974.00	0
Apartments Low Rise	65.00	Dwelling Unit	4.06	42,500.00	186

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)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Santa Angelina Senior Apartment Homes - Orange County, Summer

Project Characteristics -

Land Use - Place of worship land use subtype used for parish, square feet supplied by client

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Trip rates from Trip Generation Assessment - Fehr & Peers (weekend adjusted)

Woodstoves - No fireplaces or wood stoves

Area Coating -

Construction Off-road Equipment Mitigation - 26% based on collector Table XI-C

Santa Angelina Senior Apartment Homes - Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	5.00	44.00
tblConstructionPhase	NumDays	230.00	242.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	65.00
tblFireplaces	NumberWood	3.25	0.00
tblGrading	AcresOfGrading	30.00	4.00
tblLandUse	LandUseSquareFeet	3,970.00	3,974.00
tblLandUse	LandUseSquareFeet	65,000.00	42,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	744.00
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00

2.0 Emissions Summary

Santa Angelina Senior Apartment Homes - 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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Energy	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
Mobile	0.4237	1.4872	5.5907	0.0229	2.2338	0.0156	2.2493	0.5973	0.0144	0.6118		2,330.5902	2,330.5902	0.0894		2,332.8256
Total	1.6150	1.7807	11.0593	0.0247	2.2338	0.0639	2.2977	0.5973	0.0628	0.6601	0.0000	2,634.3420	2,634.3420	0.1043	5.3900e-003	2,638.5567

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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Energy	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
Mobile	0.4237	1.4872	5.5907	0.0229	2.2338	0.0156	2.2493	0.5973	0.0144	0.6118		2,330.5902	2,330.5902	0.0894		2,332.8256
Total	1.6150	1.7807	11.0593	0.0247	2.2338	0.0639	2.2977	0.5973	0.0628	0.6601	0.0000	2,634.3420	2,634.3420	0.1043	5.3900e-003	2,638.5567

Santa Angelina Senior Apartment Homes - 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	1/1/2022	1/31/2022	5	21	
2	Grading	Grading	2/1/2022	2/28/2022	5	20	
3	Site Work - utilities/paving	Site Preparation	3/1/2022	4/29/2022	5	44	
4	Building Construction	Building Construction	5/1/2022	4/4/2023	5	242	
5	Architectural Coating	Architectural Coating	4/5/2023	4/28/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 86,063; Residential Outdoor: 28,688; Non-Residential Indoor: 5,961; Non-Residential Outdoor: 1,987; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Santa Angelina Senior Apartment Homes - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Work - utilities/paving	Excavators	1	6.00	158	0.38
Site Work - utilities/paving	Paving Equipment	1	4.00	132	0.36
Site Work - utilities/paving	Rubber Tired Loaders	2	4.00	203	0.36
Site Work - utilities/paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Grading	Scrapers	2	6.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Skid Steer Loaders	1	7.00	65	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	16.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Work - utilities/paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	744.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	48.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

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					0.1628	0.0000	0.1628	0.0246	0.0000	0.0246			0.0000			0.0000
Off-Road	1.3029	11.5112	14.6468	0.0265		0.5435	0.5435		0.5109	0.5109		2,555.9509	2,555.9509	0.6979		2,573.3985
Total	1.3029	11.5112	14.6468	0.0265	0.1628	0.5435	0.7063	0.0246	0.5109	0.5355		2,555.9509	2,555.9509	0.6979		2,573.3985

Santa Angelina Senior Apartment Homes - 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	5.2100e-003	0.1780	0.0535	5.7000e-004	0.0133	5.3000e-004	0.0138	3.6300e-003	5.0000e-004	4.1300e-003		63.3539	63.3539	6.5700e-003		63.5182
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	0.0564	0.2077	0.4787	2.0900e-003	0.1809	1.5900e-003	0.1825	0.0481	1.4800e-003	0.0496		215.3341	215.3341	9.6400e-003		215.5751

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0635	0.0000	0.0635	9.6100e-003	0.0000	9.6100e-003			0.0000			0.0000
Off-Road	1.3029	11.5112	14.6468	0.0265		0.5435	0.5435		0.5109	0.5109	0.0000	2,555.9509	2,555.9509	0.6979		2,573.3984
Total	1.3029	11.5112	14.6468	0.0265	0.0635	0.5435	0.6070	9.6100e-003	0.5109	0.5205	0.0000	2,555.9509	2,555.9509	0.6979		2,573.3984

Santa Angelina Senior Apartment Homes - 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	5.2100e-003	0.1780	0.0535	5.7000e-004	0.0107	5.3000e-004	0.0112	2.9900e-003	5.0000e-004	3.4900e-003		63.3539	63.3539	6.5700e-003		63.5182
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	0.1298	1.0600e-003	0.1308	0.0352	9.8000e-004	0.0361		151.9802	151.9802	3.0700e-003		152.0569
Total	0.0564	0.2077	0.4787	2.0900e-003	0.1404	1.5900e-003	0.1420	0.0382	1.4800e-003	0.0396		215.3341	215.3341	9.6400e-003		215.5751

3.3 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					6.2342	0.0000	6.2342	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.4492	26.1533	16.5321	0.0391		1.1073	1.1073		1.0187	1.0187		3,787.9634	3,787.9634	1.2251		3,818.5910
Total	2.4492	26.1533	16.5321	0.0391	6.2342	1.1073	7.3415	3.3331	1.0187	4.3518		3,787.9634	3,787.9634	1.2251		3,818.5910

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.3 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	0.2543	8.6896	2.6116	0.0276	0.6476	0.0257	0.6733	0.1773	0.0246	0.2019		3,093.2537	3,093.2537	0.3209		3,101.2769
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	0.0443	0.0257	0.3685	1.3200e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		131.7162	131.7162	2.6600e-003		131.7827
Total	0.2986	8.7153	2.9802	0.0290	0.7929	0.0266	0.8195	0.2158	0.0254	0.2412		3,224.9699	3,224.9699	0.3236		3,233.0596

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4313	0.0000	2.4313	1.2999	0.0000	1.2999			0.0000			0.0000
Off-Road	2.4492	26.1533	16.5321	0.0391		1.1073	1.1073		1.0187	1.0187	0.0000	3,787.9634	3,787.9634	1.2251		3,818.5910
Total	2.4492	26.1533	16.5321	0.0391	2.4313	1.1073	3.5386	1.2999	1.0187	2.3186	0.0000	3,787.9634	3,787.9634	1.2251		3,818.5910

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.3 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	0.2543	8.6896	2.6116	0.0276	0.5198	0.0257	0.5454	0.1459	0.0246	0.1705		3,093.2537	3,093.2537	0.3209		3,101.2769
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	0.0443	0.0257	0.3685	1.3200e-003	0.1125	9.2000e-004	0.1134	0.0305	8.5000e-004	0.0313		131.7162	131.7162	2.6600e-003		131.7827
Total	0.2986	8.7153	2.9802	0.0290	0.6322	0.0266	0.6588	0.1764	0.0254	0.2018		3,224.9699	3,224.9699	0.3236		3,233.0596

3.4 Site Work - utilities/paving - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0264	10.2535	11.9594	0.0215		0.4786	0.4786		0.4404	0.4404		2,081.6268	2,081.6268	0.6732		2,098.4578
Total	1.0264	10.2535	11.9594	0.0215	0.0000	0.4786	0.4786	0.0000	0.4404	0.4404		2,081.6268	2,081.6268	0.6732		2,098.4578

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.4 Site Work - utilities/paving - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0264	10.2535	11.9594	0.0215		0.4786	0.4786		0.4404	0.4404	0.0000	2,081.6268	2,081.6268	0.6732		2,098.4578
Total	1.0264	10.2535	11.9594	0.0215	0.0000	0.4786	0.4786	0.0000	0.4404	0.4404	0.0000	2,081.6268	2,081.6268	0.6732		2,098.4578

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.4 Site Work - utilities/paving - 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	0.1557	1.2800e-003	0.1570	0.0422	1.1800e-003	0.0434		182.3762	182.3762	3.6800e-003		182.4683
Total	0.0614	0.0356	0.5103	1.8300e-003	0.1557	1.2800e-003	0.1570	0.0422	1.1800e-003	0.0434		182.3762	182.3762	3.6800e-003		182.4683

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	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738		853.3295	853.3295	0.2760		860.2291
Total	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738		853.3295	853.3295	0.2760		860.2291

Santa Angelina Senior Apartment Homes - 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	0.0201	0.7100	0.1965	1.9500e-003	0.0511	1.3600e-003	0.0525	0.0147	1.3000e-003	0.0160		212.9221	212.9221	0.0163		213.3304
Worker	0.1637	0.0950	1.3607	4.8800e-003	0.5365	3.4100e-003	0.5399	0.1423	3.1400e-003	0.1454		486.3366	486.3366	9.8200e-003		486.5822
Total	0.1838	0.8050	1.5572	6.8300e-003	0.5876	4.7700e-003	0.5924	0.1570	4.4400e-003	0.1614		699.2587	699.2587	0.0262		699.9126

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	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738	0.0000	853.3295	853.3295	0.2760		860.2291
Total	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738	0.0000	853.3295	853.3295	0.2760		860.2291

Santa Angelina Senior Apartment Homes - 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	0.0201	0.7100	0.1965	1.9500e-003	0.0416	1.3600e-003	0.0430	0.0124	1.3000e-003	0.0137		212.9221	212.9221	0.0163		213.3304
Worker	0.1637	0.0950	1.3607	4.8800e-003	0.4153	3.4100e-003	0.4187	0.1125	3.1400e-003	0.1157		486.3366	486.3366	9.8200e-003		486.5822
Total	0.1838	0.8050	1.5572	6.8300e-003	0.4569	4.7700e-003	0.4616	0.1249	4.4400e-003	0.1293		699.2587	699.2587	0.0262		699.9126

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	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497		853.3223	853.3223	0.2760		860.2218
Total	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497		853.3223	853.3223	0.2760		860.2218

Santa Angelina Senior Apartment Homes - 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	0.0153	0.5359	0.1834	1.8900e-003	0.0511	6.5000e-004	0.0518	0.0147	6.2000e-004	0.0153		206.4532	206.4532	0.0152		206.8329
Worker	0.1551	0.0862	1.2690	4.6900e-003	0.5365	3.3500e-003	0.5399	0.1423	3.0800e-003	0.1454		467.6398	467.6398	8.9100e-003		467.8625
Total	0.1703	0.6221	1.4524	6.5800e-003	0.5876	4.0000e-003	0.5916	0.1570	3.7000e-003	0.1607		674.0930	674.0930	0.0241		674.6953

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	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497	0.0000	853.3223	853.3223	0.2760		860.2218
Total	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497	0.0000	853.3223	853.3223	0.2760		860.2218

Santa Angelina Senior Apartment Homes - 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	0.0153	0.5359	0.1834	1.8900e-003	0.0416	6.5000e-004	0.0423	0.0124	6.2000e-004	0.0130		206.4532	206.4532	0.0152		206.8329
Worker	0.1551	0.0862	1.2690	4.6900e-003	0.4153	3.3500e-003	0.4186	0.1125	3.0800e-003	0.1156		467.6398	467.6398	8.9100e-003		467.8625
Total	0.1703	0.6221	1.4524	6.5800e-003	0.4569	4.0000e-003	0.4609	0.1249	3.7000e-003	0.1286		674.0930	674.0930	0.0241		674.6953

3.6 Architectural Coating - 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					
Archit. Coating	16.8208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	17.0125	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0323	0.0180	0.2644	9.8000e-004	0.1118	7.0000e-004	0.1125	0.0296	6.4000e-004	0.0303		97.4250	97.4250	1.8600e-003		97.4714
Total	0.0323	0.0180	0.2644	9.8000e-004	0.1118	7.0000e-004	0.1125	0.0296	6.4000e-004	0.0303		97.4250	97.4250	1.8600e-003		97.4714

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	17.0125	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Santa Angelina Senior Apartment Homes - Orange County, Summer

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0323	0.0180	0.2644	9.8000e-004	0.0865	7.0000e-004	0.0872	0.0234	6.4000e-004	0.0241		97.4250	97.4250	1.8600e-003		97.4714
Total	0.0323	0.0180	0.2644	9.8000e-004	0.0865	7.0000e-004	0.0872	0.0234	6.4000e-004	0.0241		97.4250	97.4250	1.8600e-003		97.4714

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Angelina Senior Apartment Homes - 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	0.4237	1.4872	5.5907	0.0229	2.2338	0.0156	2.2493	0.5973	0.0144	0.6118		2,330.590 2	2,330.590 2	0.0894		2,332.825 6
Unmitigated	0.4237	1.4872	5.5907	0.0229	2.2338	0.0156	2.2493	0.5973	0.0144	0.6118		2,330.590 2	2,330.590 2	0.0894		2,332.825 6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	240.50	261.30	221.00	819,785	819,785
Place of Worship	19.02	21.64	76.42	58,847	58,847
Total	259.52	282.94	297.42	878,632	878,632

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
Apartments Low Rise	14.70	5.90	8.70	40.00	20.00	40.00	86	11	3
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	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
Place of Worship	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

Santa Angelina Senior Apartment Homes - Orange County, Summer

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	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
NaturalGas Unmitigated	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427

Santa Angelina Senior Apartment Homes - 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					
Apartments Low Rise	2272.26	0.0245	0.2094	0.0891	1.3400e-003		0.0169	0.0169		0.0169	0.0169		267.3242	267.3242	5.1200e-003	4.9000e-003	268.9128
Place of Worship	227.552	2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.7709	26.7709	5.1000e-004	4.9000e-004	26.9300
Total		0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6300e-003	5.3900e-003	295.8427

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					
Apartments Low Rise	2.27226	0.0245	0.2094	0.0891	1.3400e-003		0.0169	0.0169		0.0169	0.0169		267.3242	267.3242	5.1200e-003	4.9000e-003	268.9128
Place of Worship	0.227552	2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.7709	26.7709	5.1000e-004	4.9000e-004	26.9300
Total		0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6300e-003	5.3900e-003	295.8427

6.0 Area Detail

6.1 Mitigation Measures Area

Santa Angelina Senior Apartment Homes - 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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Unmitigated	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

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	0.0830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9202					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	0.1612	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6568	9.6568	9.2700e-003		9.8884
Total	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

Santa Angelina Senior Apartment Homes - 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	0.0830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9202					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	0.1612	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6568	9.6568	9.2700e-003		9.8884
Total	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

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

10.0 Stationary Equipment

Santa Angelina Senior Apartment Homes - Orange County, Summer

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Santa Angelina Senior Apartment Homes - Orange County, Winter

Santa Angelina Senior Apartment Homes
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	3.97	1000sqft	0.09	3,974.00	0
Apartments Low Rise	65.00	Dwelling Unit	4.06	42,500.00	186

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)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Santa Angelina Senior Apartment Homes - Orange County, Winter

Project Characteristics -

Land Use - Place of worship land use subtype used for parish, square feet supplied by client

Construction Phase - Construction schedule provided by client

Off-road Equipment -

Off-road Equipment - Equipment list provided by client

Demolition -

Grading -

Architectural Coating -

Vehicle Trips - Trip rates from Trip Generation Assessment - Fehr & Peers (weekend adjusted)

Woodstoves - No fireplaces or wood stoves

Area Coating -

Construction Off-road Equipment Mitigation - 26% based on collector Table XI-C

Santa Angelina Senior Apartment Homes - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	20.00
tblConstructionPhase	NumDays	5.00	44.00
tblConstructionPhase	NumDays	230.00	242.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	65.00
tblFireplaces	NumberWood	3.25	0.00
tblGrading	AcresOfGrading	30.00	4.00
tblLandUse	LandUseSquareFeet	3,970.00	3,974.00
tblLandUse	LandUseSquareFeet	65,000.00	42,500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	744.00
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00

2.0 Emissions Summary

Santa Angelina Senior Apartment Homes - 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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Energy	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
Mobile	0.4158	1.5262	5.3415	0.0219	2.2338	0.0156	2.2494	0.5973	0.0145	0.6118		2,228.8862	2,228.8862	0.0892		2,231.1164
Total	1.6071	1.8196	10.8100	0.0236	2.2338	0.0640	2.2977	0.5973	0.0628	0.6602	0.0000	2,532.6380	2,532.6380	0.1041	5.3900e-003	2,536.8476

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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Energy	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
Mobile	0.4158	1.5262	5.3415	0.0219	2.2338	0.0156	2.2494	0.5973	0.0145	0.6118		2,228.8862	2,228.8862	0.0892		2,231.1164
Total	1.6071	1.8196	10.8100	0.0236	2.2338	0.0640	2.2977	0.5973	0.0628	0.6602	0.0000	2,532.6380	2,532.6380	0.1041	5.3900e-003	2,536.8476

Santa Angelina Senior Apartment Homes - 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	1/1/2022	1/31/2022	5	21	
2	Grading	Grading	2/1/2022	2/28/2022	5	20	
3	Site Work - utilities/paving	Site Preparation	3/1/2022	4/29/2022	5	44	
4	Building Construction	Building Construction	5/1/2022	4/4/2023	5	242	
5	Architectural Coating	Architectural Coating	4/5/2023	4/28/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 86,063; Residential Outdoor: 28,688; Non-Residential Indoor: 5,961; Non-Residential Outdoor: 1,987; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Santa Angelina Senior Apartment Homes - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Work - utilities/paving	Excavators	1	6.00	158	0.38
Site Work - utilities/paving	Paving Equipment	1	4.00	132	0.36
Site Work - utilities/paving	Rubber Tired Loaders	2	4.00	203	0.36
Site Work - utilities/paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	6.00	203	0.36
Grading	Scrapers	2	6.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Skid Steer Loaders	1	7.00	65	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	16.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Work - utilities/paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	744.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	48.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

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					0.1628	0.0000	0.1628	0.0246	0.0000	0.0246			0.0000			0.0000
Off-Road	1.3029	11.5112	14.6468	0.0265		0.5435	0.5435		0.5109	0.5109		2,555.9509	2,555.9509	0.6979		2,573.3985
Total	1.3029	11.5112	14.6468	0.0265	0.1628	0.5435	0.7063	0.0246	0.5109	0.5355		2,555.9509	2,555.9509	0.6979		2,573.3985

Santa Angelina Senior Apartment Homes - 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	5.3400e-003	0.1799	0.0560	5.6000e-004	0.0133	5.4000e-004	0.0138	3.6300e-003	5.1000e-004	4.1400e-003		62.3878	62.3878	6.7100e-003		62.5555
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	0.0634	0.2125	0.4478	2.0000e-003	0.1809	1.6000e-003	0.1825	0.0481	1.4900e-003	0.0496		206.2346	206.2346	9.6100e-003		206.4749

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0635	0.0000	0.0635	9.6100e-003	0.0000	9.6100e-003			0.0000			0.0000
Off-Road	1.3029	11.5112	14.6468	0.0265		0.5435	0.5435		0.5109	0.5109	0.0000	2,555.9509	2,555.9509	0.6979		2,573.3984
Total	1.3029	11.5112	14.6468	0.0265	0.0635	0.5435	0.6070	9.6100e-003	0.5109	0.5205	0.0000	2,555.9509	2,555.9509	0.6979		2,573.3984

Santa Angelina Senior Apartment Homes - 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	5.3400e-003	0.1799	0.0560	5.6000e-004	0.0107	5.4000e-004	0.0112	2.9900e-003	5.1000e-004	3.5000e-003		62.3878	62.3878	6.7100e-003		62.5555
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	0.1298	1.0600e-003	0.1308	0.0352	9.8000e-004	0.0361		143.8468	143.8468	2.9000e-003		143.9194
Total	0.0634	0.2125	0.4478	2.0000e-003	0.1404	1.6000e-003	0.1420	0.0382	1.4900e-003	0.0396		206.2346	206.2346	9.6100e-003		206.4749

3.3 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					6.2342	0.0000	6.2342	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.4492	26.1533	16.5321	0.0391		1.1073	1.1073		1.0187	1.0187		3,787.9634	3,787.9634	1.2251		3,818.5910
Total	2.4492	26.1533	16.5321	0.0391	6.2342	1.1073	7.3415	3.3331	1.0187	4.3518		3,787.9634	3,787.9634	1.2251		3,818.5910

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.3 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	0.2606	8.7839	2.7346	0.0272	0.6476	0.0262	0.6738	0.1773	0.0250	0.2023		3,046.0828	3,046.0828	0.3277		3,054.2745
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	0.0503	0.0283	0.3395	1.2500e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		124.6672	124.6672	2.5200e-003		124.7301
Total	0.3109	8.8121	3.0741	0.0285	0.7929	0.0271	0.8200	0.2158	0.0259	0.2417		3,170.7500	3,170.7500	0.3302		3,179.0046

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4313	0.0000	2.4313	1.2999	0.0000	1.2999			0.0000			0.0000
Off-Road	2.4492	26.1533	16.5321	0.0391		1.1073	1.1073		1.0187	1.0187	0.0000	3,787.9634	3,787.9634	1.2251		3,818.5910
Total	2.4492	26.1533	16.5321	0.0391	2.4313	1.1073	3.5386	1.2999	1.0187	2.3186	0.0000	3,787.9634	3,787.9634	1.2251		3,818.5910

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.3 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	0.2606	8.7839	2.7346	0.0272	0.5198	0.0262	0.5459	0.1459	0.0250	0.1709		3,046.0828	3,046.0828	0.3277		3,054.2745
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	0.0503	0.0283	0.3395	1.2500e-003	0.1125	9.2000e-004	0.1134	0.0305	8.5000e-004	0.0313		124.6672	124.6672	2.5200e-003		124.7301
Total	0.3109	8.8121	3.0741	0.0285	0.6322	0.0271	0.6593	0.1764	0.0259	0.2022		3,170.7500	3,170.7500	0.3302		3,179.0046

3.4 Site Work - utilities/paving - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0264	10.2535	11.9594	0.0215		0.4786	0.4786		0.4404	0.4404		2,081.6268	2,081.6268	0.6732		2,098.4578
Total	1.0264	10.2535	11.9594	0.0215	0.0000	0.4786	0.4786	0.0000	0.4404	0.4404		2,081.6268	2,081.6268	0.6732		2,098.4578

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.4 Site Work - utilities/paving - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0264	10.2535	11.9594	0.0215		0.4786	0.4786		0.4404	0.4404	0.0000	2,081.6268	2,081.6268	0.6732		2,098.4578
Total	1.0264	10.2535	11.9594	0.0215	0.0000	0.4786	0.4786	0.0000	0.4404	0.4404	0.0000	2,081.6268	2,081.6268	0.6732		2,098.4578

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.4 Site Work - utilities/paving - 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	0.1557	1.2800e-003	0.1570	0.0422	1.1800e-003	0.0434		172.6162	172.6162	3.4800e-003		172.7033
Total	0.0697	0.0391	0.4701	1.7300e-003	0.1557	1.2800e-003	0.1570	0.0422	1.1800e-003	0.0434		172.6162	172.6162	3.4800e-003		172.7033

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	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738		853.3295	853.3295	0.2760		860.2291
Total	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738		853.3295	853.3295	0.2760		860.2291

Santa Angelina Senior Apartment Homes - 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	0.0211	0.7079	0.2153	1.9000e-003	0.0511	1.4100e-003	0.0525	0.0147	1.3500e-003	0.0161		207.6714	207.6714	0.0171		208.0989
Worker	0.1859	0.1043	1.2537	4.6100e-003	0.5365	3.4100e-003	0.5399	0.1423	3.1400e-003	0.1454		460.3098	460.3098	9.2900e-003		460.5420
Total	0.2069	0.8122	1.4690	6.5100e-003	0.5876	4.8200e-003	0.5925	0.1570	4.4900e-003	0.1615		667.9812	667.9812	0.0264		668.6410

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	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738	0.0000	853.3295	853.3295	0.2760		860.2291
Total	0.4295	4.5143	3.7074	8.8100e-003		0.1889	0.1889		0.1738	0.1738	0.0000	853.3295	853.3295	0.2760		860.2291

Santa Angelina Senior Apartment Homes - 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	0.0211	0.7079	0.2153	1.9000e-003	0.0416	1.4100e-003	0.0430	0.0124	1.3500e-003	0.0137		207.6714	207.6714	0.0171		208.0989
Worker	0.1859	0.1043	1.2537	4.6100e-003	0.4153	3.4100e-003	0.4187	0.1125	3.1400e-003	0.1157		460.3098	460.3098	9.2900e-003		460.5420
Total	0.2069	0.8122	1.4690	6.5100e-003	0.4569	4.8200e-003	0.4617	0.1249	4.4900e-003	0.1294		667.9812	667.9812	0.0264		668.6410

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	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497		853.3223	853.3223	0.2760		860.2218
Total	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497		853.3223	853.3223	0.2760		860.2218

Santa Angelina Senior Apartment Homes - 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	0.0160	0.5328	0.1979	1.8400e-003	0.0511	6.8000e-004	0.0518	0.0147	6.5000e-004	0.0154		201.4474	201.4474	0.0158		201.8427
Worker	0.1765	0.0947	1.1673	4.4400e-003	0.5365	3.3500e-003	0.5399	0.1423	3.0800e-003	0.1454		442.6360	442.6360	8.4200e-003		442.8465
Total	0.1926	0.6276	1.3652	6.2800e-003	0.5876	4.0300e-003	0.5917	0.1570	3.7300e-003	0.1607		644.0834	644.0834	0.0242		644.6891

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	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497	0.0000	853.3223	853.3223	0.2760		860.2218
Total	0.3962	4.0391	3.6781	8.8100e-003		0.1627	0.1627		0.1497	0.1497	0.0000	853.3223	853.3223	0.2760		860.2218

Santa Angelina Senior Apartment Homes - 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	0.0160	0.5328	0.1979	1.8400e-003	0.0416	6.8000e-004	0.0423	0.0124	6.5000e-004	0.0130		201.4474	201.4474	0.0158		201.8427
Worker	0.1765	0.0947	1.1673	4.4400e-003	0.4153	3.3500e-003	0.4186	0.1125	3.0800e-003	0.1156		442.6360	442.6360	8.4200e-003		442.8465
Total	0.1926	0.6276	1.3652	6.2800e-003	0.4569	4.0300e-003	0.4609	0.1249	3.7300e-003	0.1286		644.0834	644.0834	0.0242		644.6891

3.6 Architectural Coating - 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					
Archit. Coating	16.8208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	17.0125	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0368	0.0197	0.2432	9.2000e-004	0.1118	7.0000e-004	0.1125	0.0296	6.4000e-004	0.0303		92.2158	92.2158	1.7500e-003		92.2597
Total	0.0368	0.0197	0.2432	9.2000e-004	0.1118	7.0000e-004	0.1125	0.0296	6.4000e-004	0.0303		92.2158	92.2158	1.7500e-003		92.2597

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.8208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	17.0125	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Santa Angelina Senior Apartment Homes - Orange County, Winter

3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0368	0.0197	0.2432	9.2000e-004	0.0865	7.0000e-004	0.0872	0.0234	6.4000e-004	0.0241		92.2158	92.2158	1.7500e-003		92.2597
Total	0.0368	0.0197	0.2432	9.2000e-004	0.0865	7.0000e-004	0.0872	0.0234	6.4000e-004	0.0241		92.2158	92.2158	1.7500e-003		92.2597

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Santa Angelina Senior Apartment Homes - 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	0.4158	1.5262	5.3415	0.0219	2.2338	0.0156	2.2494	0.5973	0.0145	0.6118		2,228.886 2	2,228.886 2	0.0892		2,231.1164
Unmitigated	0.4158	1.5262	5.3415	0.0219	2.2338	0.0156	2.2494	0.5973	0.0145	0.6118		2,228.886 2	2,228.886 2	0.0892		2,231.1164

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	240.50	261.30	221.00	819,785	819,785
Place of Worship	19.02	21.64	76.42	58,847	58,847
Total	259.52	282.94	297.42	878,632	878,632

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
Apartments Low Rise	14.70	5.90	8.70	40.00	20.00	40.00	86	11	3
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	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
Place of Worship	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

Santa Angelina Senior Apartment Homes - Orange County, Winter

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	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427
NaturalGas Unmitigated	0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6400e-003	5.3900e-003	295.8427

Santa Angelina Senior Apartment Homes - Orange County, Winter

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					
Apartments Low Rise	2272.26	0.0245	0.2094	0.0891	1.3400e-003		0.0169	0.0169		0.0169	0.0169		267.3242	267.3242	5.1200e-003	4.9000e-003	268.9128
Place of Worship	227.552	2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.7709	26.7709	5.1000e-004	4.9000e-004	26.9300
Total		0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6300e-003	5.3900e-003	295.8427

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					
Apartments Low Rise	2.27226	0.0245	0.2094	0.0891	1.3400e-003		0.0169	0.0169		0.0169	0.0169		267.3242	267.3242	5.1200e-003	4.9000e-003	268.9128
Place of Worship	0.227552	2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003		26.7709	26.7709	5.1000e-004	4.9000e-004	26.9300
Total		0.0270	0.2317	0.1079	1.4700e-003		0.0186	0.0186		0.0186	0.0186		294.0951	294.0951	5.6300e-003	5.3900e-003	295.8427

6.0 Area Detail

6.1 Mitigation Measures Area

Santa Angelina Senior Apartment Homes - 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	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884
Unmitigated	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

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	0.0830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9202					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	0.1612	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6568	9.6568	9.2700e-003		9.8884
Total	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

Santa Angelina Senior Apartment Homes - 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	0.0830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9202					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	0.1612	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6568	9.6568	9.2700e-003		9.8884
Total	1.1644	0.0618	5.3607	2.8000e-004		0.0297	0.0297		0.0297	0.0297	0.0000	9.6568	9.6568	9.2700e-003	0.0000	9.8884

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

10.0 Stationary Equipment

Santa Angelina Senior Apartment Homes - Orange County, Winter

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation
