

APPENDIX A: AIR QUALITY MODELING WORKSHEETS

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12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

12611 S. Willowbrook Avenue - Existing Conditions Only

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	4.18	1000sqft	1.21	4,182.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2021
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

Project Characteristics -

Land Use - Existing 4,182 sf child development center.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Energy Use - Historical Title 24 assumed for Existing Conditions scenario.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	4,180.00	4,182.00
tblLandUse	LotAcreage	0.10	1.21

2.0 Emissions Summary

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8237	13.7369	12.9974	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,050.6119	2,050.6119	0.3595	0.0000	2,059.5997
2022	4.0813	12.5985	12.8175	0.0225	0.0288	0.5892	0.6180	7.7700e-003	0.5692	0.5769	0.0000	2,049.9032	2,049.9032	0.3507	0.0000	2,058.6716
Maximum	4.0813	13.7369	12.9974	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,050.6119	2,050.6119	0.3595	0.0000	2,059.5997

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8237	13.7369	12.9974	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,050.6119	2,050.6119	0.3595	0.0000	2,059.5997
2022	4.0813	12.5985	12.8175	0.0225	0.0288	0.5892	0.6180	7.7700e-003	0.5692	0.5769	0.0000	2,049.9032	2,049.9032	0.3507	0.0000	2,058.6716
Maximum	4.0813	13.7369	12.9974	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,050.6119	2,050.6119	0.3595	0.0000	2,059.5997

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12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Energy	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Mobile	0.4379	1.9617	3.9690	0.0129	0.9571	0.0104	0.9675	0.2561	9.7100e-003	0.2658		1,316.3549	1,316.3549	0.0723		1,318.1634
Total	0.5328	1.9749	3.9806	0.0130	0.9571	0.0114	0.9686	0.2561	0.0107	0.2668		1,332.2481	1,332.2481	0.0726	2.9000e-004	1,334.1511

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Energy	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Mobile	0.4379	1.9617	3.9690	0.0129	0.9571	0.0104	0.9675	0.2561	9.7100e-003	0.2658		1,316.3549	1,316.3549	0.0723		1,318.1634
Total	0.5328	1.9749	3.9806	0.0130	0.9571	0.0114	0.9686	0.2561	0.0107	0.2668		1,332.2481	1,332.2481	0.0726	2.9000e-004	1,334.1511

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	IGNORE Building Construction	Building Construction	7/22/2021	4/27/2022	5	200	
2	IGNORE Architectural Coating	Architectural Coating	5/12/2022	5/25/2022	5	10	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,273; Non-Residential Outdoor: 2,091; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Building Construction	Cranes	1	6.00	231	0.29
IGNORE Building Construction	Forklifts	1	6.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
IGNORE Building Construction	Welders	3	8.00	46	0.45
IGNORE Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
IGNORE Building Construction	7	2.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 IGNORE Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.2 IGNORE Building Construction - 2021**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	2.7800e-003	0.0954	0.0226	2.6000e-004	6.4000e-003	1.9000e-004	6.5900e-003	1.8400e-003	1.8000e-004	2.0300e-003		27.2439	27.2439	1.6500e-003		27.2851
Worker	8.4400e-003	5.4800e-003	0.0753	2.2000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		22.1481	22.1481	6.0000e-004		22.1630
Total	0.0112	0.1009	0.0980	4.8000e-004	0.0288	3.5000e-004	0.0291	7.7700e-003	3.3000e-004	8.1100e-003		49.3919	49.3919	2.2500e-003		49.4480

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.2 IGNORE Building Construction - 2021**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	2.7800e-003	0.0954	0.0226	2.6000e-004	6.4000e-003	1.9000e-004	6.5900e-003	1.8400e-003	1.8000e-004	2.0300e-003		27.2439	27.2439	1.6500e-003		27.2851
Worker	8.4400e-003	5.4800e-003	0.0753	2.2000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		22.1481	22.1481	6.0000e-004		22.1630
Total	0.0112	0.1009	0.0980	4.8000e-004	0.0288	3.5000e-004	0.0291	7.7700e-003	3.3000e-004	8.1100e-003		49.3919	49.3919	2.2500e-003		49.4480

3.2 IGNORE Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.2 IGNORE 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	2.6100e-003	0.0905	0.0214	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		27.0059	27.0059	1.5900e-003		27.0456
Worker	7.9200e-003	4.9500e-003	0.0697	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		21.3545	21.3545	5.4000e-004		21.3679
Total	0.0105	0.0955	0.0911	4.6000e-004	0.0288	3.3000e-004	0.0291	7.7700e-003	3.1000e-004	8.0800e-003		48.3604	48.3604	2.1300e-003		48.4135

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.2 IGNORE 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	2.6100e-003	0.0905	0.0214	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		27.0059	27.0059	1.5900e-003		27.0456
Worker	7.9200e-003	4.9500e-003	0.0697	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		21.3545	21.3545	5.4000e-004		21.3679
Total	0.0105	0.0955	0.0911	4.6000e-004	0.0288	3.3000e-004	0.0291	7.7700e-003	3.1000e-004	8.0800e-003		48.3604	48.3604	2.1300e-003		48.4135

3.3 IGNORE Architectural Coating - 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					
Archit. Coating	3.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.0813	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.3 IGNORE Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	3.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.0813	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

3.3 IGNORE Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	0.4379	1.9617	3.9690	0.0129	0.9571	0.0104	0.9675	0.2561	9.7100e-003	0.2658		1,316.3549	1,316.3549	0.0723		1,318.1634
Unmitigated	0.4379	1.9617	3.9690	0.0129	0.9571	0.0104	0.9675	0.2561	9.7100e-003	0.2658		1,316.3549	1,316.3549	0.0723		1,318.1634

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	309.57	25.96	24.37	331,983	331,983
Total	309.57	25.96	24.37	331,983	331,983

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
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Day-Care Center	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: Y

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

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	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
NaturalGas Unmitigated	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

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					
Day-Care Center	135.084	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Total		1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Day-Care Center	0.135084	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Total		1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Unmitigated	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Total	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

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	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Total	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

7.0 Water Detail

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Summer

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

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

12611 S. Willowbrook Avenue - Existing Conditions Only

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Day-Care Center	4.18	1000sqft	1.21	4,182.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2021
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

Project Characteristics -

Land Use - Existing 4,182 sf child development center.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Energy Use - Historical Title 24 assumed for Existing Conditions scenario.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	4,180.00	4,182.00
tblLandUse	LotAcreage	0.10	1.21

2.0 Emissions Summary

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8247	13.7371	12.9924	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,048.3884	2,048.3884	0.3596	0.0000	2,057.3782
2022	4.0813	12.5986	12.8129	0.0225	0.0288	0.5892	0.6180	7.7700e-003	0.5692	0.5769	0.0000	2,047.7330	2,047.7330	0.3508	0.0000	2,056.5033
Maximum	4.0813	13.7371	12.9924	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,048.3884	2,048.3884	0.3596	0.0000	2,057.3782

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.8247	13.7371	12.9924	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,048.3884	2,048.3884	0.3596	0.0000	2,057.3782
2022	4.0813	12.5986	12.8129	0.0225	0.0288	0.5892	0.6180	7.7700e-003	0.5692	0.5769	0.0000	2,047.7330	2,047.7330	0.3508	0.0000	2,056.5033
Maximum	4.0813	13.7371	12.9924	0.0225	0.0288	0.6847	0.7135	7.7700e-003	0.6611	0.6689	0.0000	2,048.3884	2,048.3884	0.3596	0.0000	2,057.3782

[illegible]

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Energy	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Mobile	0.4140	1.9700	3.8844	0.0122	0.9571	0.0105	0.9677	0.2561	9.8300e-003	0.2659		1,242.3218	1,242.3218	0.0741		1,244.1745
Total	0.5090	1.9832	3.8959	0.0123	0.9571	0.0115	0.9687	0.2561	0.0108	0.2669		1,258.2150	1,258.2150	0.0744	2.9000e-004	1,260.1621

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Energy	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Mobile	0.4140	1.9700	3.8844	0.0122	0.9571	0.0105	0.9677	0.2561	9.8300e-003	0.2659		1,242.3218	1,242.3218	0.0741		1,244.1745
Total	0.5090	1.9832	3.8959	0.0123	0.9571	0.0115	0.9687	0.2561	0.0108	0.2669		1,258.2150	1,258.2150	0.0744	2.9000e-004	1,260.1621

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	IGNORE Building Construction	Building Construction	7/22/2021	4/27/2022	5	200	
2	IGNORE Architectural Coating	Architectural Coating	5/12/2022	5/25/2022	5	10	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,273; Non-Residential Outdoor: 2,091; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
IGNORE Building Construction	Cranes	1	6.00	231	0.29
IGNORE Building Construction	Forklifts	1	6.00	89	0.20
IGNORE Building Construction	Generator Sets	1	8.00	84	0.74
IGNORE Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
IGNORE Building Construction	Welders	3	8.00	46	0.45
IGNORE Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
IGNORE Building Construction	7	2.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
IGNORE Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 IGNORE Building Construction - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573		2,010.1517

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.2 IGNORE Building Construction - 2021**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	2.9300e-003	0.0951	0.0253	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.4550	26.4550	1.7700e-003		26.4993
Worker	9.2200e-003	5.9900e-003	0.0677	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		20.7134	20.7134	5.6000e-004		20.7272
Total	0.0122	0.1011	0.0930	4.6000e-004	0.0288	3.6000e-004	0.0291	7.7700e-003	3.4000e-004	8.1100e-003		47.1684	47.1684	2.3300e-003		47.2265

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.2 IGNORE Building Construction - 2021**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	2.9300e-003	0.0951	0.0253	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.4550	26.4550	1.7700e-003		26.4993
Worker	9.2200e-003	5.9900e-003	0.0677	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		20.7134	20.7134	5.6000e-004		20.7272
Total	0.0122	0.1011	0.0930	4.6000e-004	0.0288	3.6000e-004	0.0291	7.7700e-003	3.4000e-004	8.1100e-003		47.1684	47.1684	2.3300e-003		47.2265

3.2 IGNORE Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.2 IGNORE 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	2.7500e-003	0.0902	0.0240	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0100e-003		26.2194	26.2194	1.7000e-003		26.2620
Worker	8.6700e-003	5.4100e-003	0.0625	2.0000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		19.9707	19.9707	5.0000e-004		19.9833
Total	0.0114	0.0956	0.0864	4.5000e-004	0.0288	3.3000e-004	0.0291	7.7700e-003	3.1000e-004	8.0900e-003		46.1902	46.1902	2.2000e-003		46.2453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.2 IGNORE 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	2.7500e-003	0.0902	0.0240	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0100e-003		26.2194	26.2194	1.7000e-003		26.2620
Worker	8.6700e-003	5.4100e-003	0.0625	2.0000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		19.9707	19.9707	5.0000e-004		19.9833
Total	0.0114	0.0956	0.0864	4.5000e-004	0.0288	3.3000e-004	0.0291	7.7700e-003	3.1000e-004	8.0900e-003		46.1902	46.1902	2.2000e-003		46.2453

3.3 IGNORE Architectural Coating - 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					
Archit. Coating	3.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	4.0813	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.3 IGNORE Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	3.8767					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	4.0813	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

3.3 IGNORE Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, 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	0.4140	1.9700	3.8844	0.0122	0.9571	0.0105	0.9677	0.2561	9.8300e-003	0.2659		1,242.3218	1,242.3218	0.0741		1,244.1745
Unmitigated	0.4140	1.9700	3.8844	0.0122	0.9571	0.0105	0.9677	0.2561	9.8300e-003	0.2659		1,242.3218	1,242.3218	0.0741		1,244.1745

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	309.57	25.96	24.37	331,983	331,983
Total	309.57	25.96	24.37	331,983	331,983

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
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Day-Care Center	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: Y

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

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	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
NaturalGas Unmitigated	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

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					
Day-Care Center	135.084	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Total		1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Day-Care Center	0.135084	1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867
Total		1.4600e-003	0.0132	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		15.8923	15.8923	3.0000e-004	2.9000e-004	15.9867

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Unmitigated	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Total	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

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	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0828					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004
Total	0.0935	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.1000e-004	9.1000e-004	0.0000		9.8000e-004

7.0 Water Detail

12611 S. Willowbrook Avenue - Existing Conditions Only - South Coast AQMD Air District, Winter

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

Willowbrook III Project - South Coast AQMD Air District, Summer

Willowbrook III Project
South Coast AQMD Air District, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	23.00	Space	0.00	9,200.00	0
-----	-----	-----	-----	-----	-----
Apartments Low Rise	51.00	Dwelling Unit	1.21	49,156.00	146

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2025
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

Willowbrook III Project - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Project data per August 2020 site plans

Construction Phase - Assumes approximate 21-month construction timeline.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment -

Trips and VMT - Assumes 14-cy haul truck capacity and 30-mile average to disposal site.

Demolition - Approximately 4,182 building sf for demolition.

Grading - Estimates approximately 5,000 cy export during grading phase for building foundations.

Woodstoves - No woodstoves or fireplaces proposed.

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	200.00	348.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	4.00	22.00
tblConstructionPhase	PhaseEndDate	1/22/2024	12/2/2024
tblConstructionPhase	PhaseEndDate	1/8/2024	8/31/2024
tblConstructionPhase	PhaseEndDate	3/28/2023	3/31/2023
tblConstructionPhase	PhaseEndDate	4/3/2023	5/2/2023
tblConstructionPhase	PhaseStartDate	1/9/2024	9/1/2024
tblConstructionPhase	PhaseStartDate	4/4/2023	5/3/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	4/1/2023

Willowbrook III Project - South Coast AQMD Air District, Summer

tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	43.35	0.00
tblFireplaces	NumberNoFireplace	5.10	0.00
tblFireplaces	NumberWood	2.55	0.00
tblGrading	MaterialExported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	51,000.00	49,156.00
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	LotAcreage	3.19	1.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblSequestration	NumberOfNewTrees	0.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	19.00	0.00
tblTripsAndVMT	HaulingTripNumber	500.00	714.00
tblWoodstoves	NumberCatalytic	2.55	0.00
tblWoodstoves	NumberNoncatalytic	2.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Willowbrook III Project - South Coast AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.0939	16.3088	19.1087	0.0485	5.8797	0.7097	6.3137	2.7862	0.6776	3.1861	0.0000	5,096.394 3	5,096.394 3	0.6655	0.0000	5,113.032 1
2024	5.5196	15.2597	18.9317	0.0359	0.5031	0.6306	1.1337	0.1344	0.6016	0.7360	0.0000	3,352.014 1	3,352.014 1	0.5867	0.0000	3,366.681 6
Maximum	5.5196	16.3088	19.1087	0.0485	5.8797	0.7097	6.3137	2.7862	0.6776	3.1861	0.0000	5,096.394 3	5,096.394 3	0.6655	0.0000	5,113.032 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.0939	16.3088	19.1087	0.0485	3.1627	0.7097	3.5968	1.3950	0.6776	1.7948	0.0000	5,096.394 3	5,096.394 3	0.6655	0.0000	5,113.032 1
2024	5.5196	15.2597	18.9317	0.0359	0.5031	0.6306	1.1337	0.1344	0.6016	0.7360	0.0000	3,352.014 1	3,352.014 1	0.5867	0.0000	3,366.681 6
Maximum	5.5196	16.3088	19.1087	0.0485	3.1627	0.7097	3.5968	1.3950	0.6776	1.7948	0.0000	5,096.394 3	5,096.394 3	0.6655	0.0000	5,113.032 1

	ROG	NOx	CO	SO2	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	42.57	0.00	36.48	47.63	0.00	35.47	0.00	0.00	0.00	0.00	0.00	0.00

Willowbrook III Project - South Coast AQMD Air District, 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	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Energy	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Mobile	0.5517	2.4806	7.4367	0.0304	2.6531	0.0209	2.6739	0.7098	0.0194	0.7292		3,102.5256	3,102.5256	0.1321		3,105.8271
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	2.5848	6.4088	13.8243	0.0359	2.6531	0.1819	2.8350	0.7098	0.1804	0.8902	0.0000	3,798.4628	3,798.4628	0.2033	4.9200e-003	3,805.0134

Willowbrook III Project - South Coast AQMD Air District, Summer

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Energy	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Mobile	0.5517	2.4806	7.4367	0.0304	2.6531	0.0209	2.6739	0.7098	0.0194	0.7292		3,102.5256	3,102.5256	0.1321		3,105.8271
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	2.5848	6.4088	13.8243	0.0359	2.6531	0.1819	2.8350	0.7098	0.1804	0.8902	0.0000	3,798.4628	3,798.4628	0.2033	4.9200e-003	3,805.0134

	ROG	NOx	CO	SO2	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/Site Clearing	Demolition	3/1/2023	3/31/2023	5	23	
2	Grading/Foundations	Grading	4/1/2023	5/2/2023	5	22	
3	Building Construction	Building Construction	5/3/2023	8/31/2024	5	348	
4	Architectural Coating	Architectural Coating	9/1/2024	12/2/2024	5	66	

Willowbrook III Project - South Coast AQMD Air District, Summer

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 99,541; Residential Outdoor: 33,180; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 552 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Site Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition/Site Clearing	Rubber Tired Dozers	1	8.00	247	0.40
Demolition/Site Clearing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading/Foundations	Graders	1	6.00	187	0.41
Grading/Foundations	Rubber Tired Dozers	1	6.00	247	0.40
Grading/Foundations	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
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
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	4	6.00	78	0.48

Trips and VMT

Willowbrook III Project - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition/Site Clearing	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Foundations	3	8.00	0.00	714.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	41.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition/Site Clearing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1790	0.0000	0.1790	0.0271	0.0000	0.0271			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.1790	0.6766	0.8556	0.0271	0.6328	0.6599		2,324.3959	2,324.3959	0.5893		2,339.1278

Willowbrook III Project - South Coast AQMD Air District, Summer

3.2 Demolition/Site Clearing - 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	0.0484	0.0291	0.4182	1.3400e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		133.6309	133.6309	3.1600e-003		133.7098
Total	0.0484	0.0291	0.4182	1.3400e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		133.6309	133.6309	3.1600e-003		133.7098

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					0.0805	0.0000	0.0805	0.0122	0.0000	0.0122			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0805	0.6766	0.7572	0.0122	0.6328	0.6450	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

Willowbrook III Project - South Coast AQMD Air District, Summer

3.2 Demolition/Site Clearing - 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	0.0484	0.0291	0.4182	1.3400e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		133.6309	133.6309	3.1600e-003		133.7098
Total	0.0484	0.0291	0.4182	1.3400e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		133.6309	133.6309	3.1600e-003		133.7098

3.3 Grading/Foundations - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9400	0.0000	4.9400	2.5295	0.0000	2.5295			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865		1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	4.9400	0.4201	5.3600	2.5295	0.3865	2.9160		1,364.7713	1,364.7713	0.4414		1,375.8062

Willowbrook III Project - South Coast AQMD Air District, Summer

3.3 Grading/Foundations - 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	0.2047	6.1121	2.2034	0.0336	0.8503	0.0134	0.8637	0.2330	0.0128	0.2458		3,649.3885	3,649.3885	0.2222		3,654.9429
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	0.0298	0.0179	0.2574	8.2000e-004	0.0894	6.2000e-004	0.0900	0.0237	5.7000e-004	0.0243		82.2344	82.2344	1.9400e-003		82.2830
Total	0.2345	6.1300	2.4607	0.0344	0.9397	0.0140	0.9537	0.2567	0.0134	0.2701		3,731.6229	3,731.6229	0.2241		3,737.2259

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					2.2230	0.0000	2.2230	1.1383	0.0000	1.1383			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	2.2230	0.4201	2.6431	1.1383	0.3865	1.5248	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062

Willowbrook III Project - South Coast AQMD Air District, Summer

3.3 Grading/Foundations - 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	0.2047	6.1121	2.2034	0.0336	0.8503	0.0134	0.8637	0.2330	0.0128	0.2458		3,649.3885	3,649.3885	0.2222		3,654.9429
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	0.0298	0.0179	0.2574	8.2000e-004	0.0894	6.2000e-004	0.0900	0.0237	5.7000e-004	0.0243		82.2344	82.2344	1.9400e-003		82.2830
Total	0.2345	6.1300	2.4607	0.0344	0.9397	0.0140	0.9537	0.2567	0.0134	0.2701		3,731.6229	3,731.6229	0.2241		3,737.2259

3.4 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741		2,761.6290	2,761.6290	0.5746		2,775.9935
Total	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741		2,761.6290	2,761.6290	0.5746		2,775.9935

Willowbrook III Project - South Coast AQMD Air District, Summer

3.4 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	0.0136	0.4791	0.1349	1.7100e-003	0.0448	5.4000e-004	0.0453	0.0129	5.1000e-004	0.0134		183.3074	183.3074	9.6800e-003		183.5495
Worker	0.1526	0.0917	1.3190	4.2300e-003	0.4583	3.1900e-003	0.4615	0.1215	2.9400e-003	0.1245		421.4514	421.4514	9.9500e-003		421.7002
Total	0.1663	0.5708	1.4539	5.9400e-003	0.5031	3.7300e-003	0.5068	0.1344	3.4500e-003	0.1379		604.7588	604.7588	0.0196		605.2497

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741	0.0000	2,761.6290	2,761.6290	0.5746		2,775.9935
Total	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741	0.0000	2,761.6290	2,761.6290	0.5746		2,775.9935

Willowbrook III Project - South Coast AQMD Air District, Summer

3.4 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	0.0136	0.4791	0.1349	1.7100e-003	0.0448	5.4000e-004	0.0453	0.0129	5.1000e-004	0.0134		183.3074	183.3074	9.6800e-003		183.5495
Worker	0.1526	0.0917	1.3190	4.2300e-003	0.4583	3.1900e-003	0.4615	0.1215	2.9400e-003	0.1245		421.4514	421.4514	9.9500e-003		421.7002
Total	0.1663	0.5708	1.4539	5.9400e-003	0.5031	3.7300e-003	0.5068	0.1344	3.4500e-003	0.1379		604.7588	604.7588	0.0196		605.2497

3.4 Building Construction - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981		2,761.7457	2,761.7457	0.5680		2,775.9467
Total	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981		2,761.7457	2,761.7457	0.5680		2,775.9467

Willowbrook III Project - South Coast AQMD Air District, Summer

3.4 Building Construction - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0133	0.4779	0.1310	1.7100e-003	0.0448	5.3000e-004	0.0453	0.0129	5.1000e-004	0.0134		182.6428	182.6428	9.5300e-003		182.8811
Worker	0.1445	0.0836	1.2321	4.0900e-003	0.4583	3.1500e-003	0.4614	0.1215	2.9000e-003	0.1244		407.6257	407.6257	9.1200e-003		407.8538
Total	0.1578	0.5615	1.3631	5.8000e-003	0.5031	3.6800e-003	0.5068	0.1344	3.4100e-003	0.1379		590.2685	590.2685	0.0187		590.7349

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981	0.0000	2,761.7457	2,761.7457	0.5680		2,775.9467
Total	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981	0.0000	2,761.7457	2,761.7457	0.5680		2,775.9467

Willowbrook III Project - South Coast AQMD Air District, Summer

3.4 Building Construction - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0133	0.4779	0.1310	1.7100e-003	0.0448	5.3000e-004	0.0453	0.0129	5.1000e-004	0.0134		182.6428	182.6428	9.5300e-003		182.8811
Worker	0.1445	0.0836	1.2321	4.0900e-003	0.4583	3.1500e-003	0.4614	0.1215	2.9000e-003	0.1244		407.6257	407.6257	9.1200e-003		407.8538
Total	0.1578	0.5615	1.3631	5.8000e-003	0.5031	3.6800e-003	0.5068	0.1344	3.4100e-003	0.1379		590.2685	590.2685	0.0187		590.7349

3.5 Architectural Coating - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.6991					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7923	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605		1,451.0319	1,451.0319	0.1686		1,455.2464
Total	5.4914	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605		1,451.0319	1,451.0319	0.1686		1,455.2464

Willowbrook III Project - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0163	0.2404	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		79.5367	79.5367	1.7800e-003		79.5812
Total	0.0282	0.0163	0.2404	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		79.5367	79.5367	1.7800e-003		79.5812

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	4.6991					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7923	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605	0.0000	1,451.0319	1,451.0319	0.1686		1,455.2464
Total	5.4914	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605	0.0000	1,451.0319	1,451.0319	0.1686		1,455.2464

Willowbrook III Project - South Coast AQMD Air District, Summer

3.5 Architectural Coating - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0282	0.0163	0.2404	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		79.5367	79.5367	1.7800e-003		79.5812
Total	0.0282	0.0163	0.2404	8.0000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		79.5367	79.5367	1.7800e-003		79.5812

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Willowbrook III Project - South Coast AQMD Air District, 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	0.5517	2.4806	7.4367	0.0304	2.6531	0.0209	2.6739	0.7098	0.0194	0.7292		3,102.5256	3,102.5256	0.1321		3,105.8271
Unmitigated	0.5517	2.4806	7.4367	0.0304	2.6531	0.0209	2.6739	0.7098	0.0194	0.7292		3,102.5256	3,102.5256	0.1321		3,105.8271

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	336.09	365.16	309.57	1,149,715	1,149,715
Parking Lot	0.00	0.00	0.00		
Total	336.09	365.16	309.57	1,149,715	1,149,715

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	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

Willowbrook III Project - South Coast AQMD Air District, 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	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
NaturalGas Unmitigated	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

Willowbrook III Project - South Coast AQMD Air District, 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	2283.09	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

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	2.28309	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

6.0 Area Detail**6.1 Mitigation Measures Area**

Willowbrook III Project - South Coast AQMD Air District, Summer

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust 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	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Unmitigated	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

Willowbrook III Project - South Coast AQMD Air District, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0850					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9766					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	0.1264	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233		7.5812	7.5812	7.2700e-003		7.7629
Total	1.1880	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

Willowbrook III Project - South Coast AQMD Air District, 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	0.0850					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9766					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	0.1264	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233		7.5812	7.5812	7.2700e-003		7.7629
Total	1.1880	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Willowbrook III Project - South Coast AQMD Air District, Summer

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation

Willowbrook III Project - South Coast AQMD Air District, Winter

Willowbrook III Project

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	23.00	Space	0.00	9,200.00	0
----- Apartments Low Rise	51.00	----- Dwelling Unit	1.21	49,156.00	146

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2025
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

Willowbrook III Project - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Project data per August 2020 site plans

Construction Phase - Assumes approximate 21-month construction timeline.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment -

Trips and VMT - Assumes 14-cy haul truck capacity and 30-mile average to disposal site.

Demolition - Approximately 4,182 building sf for demolition.

Grading - Estimates approximately 5,000 cy export during grading phase for building foundations.

Woodstoves - No woodstoves or fireplaces proposed.

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	66.00
tblConstructionPhase	NumDays	200.00	348.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	4.00	22.00
tblConstructionPhase	PhaseEndDate	1/22/2024	12/2/2024
tblConstructionPhase	PhaseEndDate	1/8/2024	8/31/2024
tblConstructionPhase	PhaseEndDate	3/28/2023	3/31/2023
tblConstructionPhase	PhaseEndDate	4/3/2023	5/2/2023
tblConstructionPhase	PhaseStartDate	1/9/2024	9/1/2024
tblConstructionPhase	PhaseStartDate	4/4/2023	5/3/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	4/1/2023

Willowbrook III Project - South Coast AQMD Air District, Winter

tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	43.35	0.00
tblFireplaces	NumberNoFireplace	5.10	0.00
tblFireplaces	NumberWood	2.55	0.00
tblGrading	MaterialExported	0.00	5,000.00
tblLandUse	LandUseSquareFeet	51,000.00	49,156.00
tblLandUse	LotAcreage	0.21	0.00
tblLandUse	LotAcreage	3.19	1.21
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblSequestration	NumberOfNewTrees	0.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	19.00	0.00
tblTripsAndVMT	HaulingTripNumber	500.00	714.00
tblWoodstoves	NumberCatalytic	2.55	0.00
tblWoodstoves	NumberNoncatalytic	2.55	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Willowbrook III Project - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.1097	16.3844	18.9838	0.0480	5.8797	0.7097	6.3140	2.7862	0.6776	3.1863	0.0000	5,043.737 7	5,043.737 7	0.6709	0.0000	5,060.511 1
2024	5.5224	15.2646	18.8135	0.0356	0.5031	0.6306	1.1337	0.1344	0.6016	0.7360	0.0000	3,320.338 5	3,320.338 5	0.5867	0.0000	3,335.005 2
Maximum	5.5224	16.3844	18.9838	0.0480	5.8797	0.7097	6.3140	2.7862	0.6776	3.1863	0.0000	5,043.737 7	5,043.737 7	0.6709	0.0000	5,060.511 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.1097	16.3844	18.9838	0.0480	3.1627	0.7097	3.5970	1.3950	0.6776	1.7951	0.0000	5,043.737 7	5,043.737 7	0.6709	0.0000	5,060.511 1
2024	5.5224	15.2646	18.8135	0.0356	0.5031	0.6306	1.1337	0.1344	0.6016	0.7360	0.0000	3,320.338 5	3,320.338 5	0.5867	0.0000	3,335.005 2
Maximum	5.5224	16.3844	18.9838	0.0480	3.1627	0.7097	3.5970	1.3950	0.6776	1.7951	0.0000	5,043.737 7	5,043.737 7	0.6709	0.0000	5,060.511 1

	ROG	NOx	CO	SO2	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	42.57	0.00	36.48	47.63	0.00	35.47	0.00	0.00	0.00	0.00	0.00	0.00

Willowbrook III Project - South Coast AQMD Air District, 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	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Energy	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Mobile	0.5225	2.5266	6.9200	0.0288	2.6531	0.0209	2.6740	0.7098	0.0195	0.7293		2,940.2639	2,940.2639	0.1318		2,943.5590
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	2.5556	6.4548	13.3076	0.0343	2.6531	0.1820	2.8351	0.7098	0.1805	0.8903	0.0000	3,636.2011	3,636.2011	0.2031	4.9200e-003	3,642.7453

Willowbrook III Project - South Coast AQMD Air District, Winter

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Energy	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Mobile	0.5225	2.5266	6.9200	0.0288	2.6531	0.0209	2.6740	0.7098	0.0195	0.7293		2,940.2639	2,940.2639	0.1318		2,943.5590
Stationary	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	2.5556	6.4548	13.3076	0.0343	2.6531	0.1820	2.8351	0.7098	0.1805	0.8903	0.0000	3,636.2011	3,636.2011	0.2031	4.9200e-003	3,642.7453

	ROG	NOx	CO	SO2	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/Site Clearing	Demolition	3/1/2023	3/31/2023	5	23	
2	Grading/Foundations	Grading	4/1/2023	5/2/2023	5	22	
3	Building Construction	Building Construction	5/3/2023	8/31/2024	5	348	
4	Architectural Coating	Architectural Coating	9/1/2024	12/2/2024	5	66	

Willowbrook III Project - South Coast AQMD Air District, Winter

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 99,541; Residential Outdoor: 33,180; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 552 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Site Clearing	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition/Site Clearing	Rubber Tired Dozers	1	8.00	247	0.40
Demolition/Site Clearing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading/Foundations	Graders	1	6.00	187	0.41
Grading/Foundations	Rubber Tired Dozers	1	6.00	247	0.40
Grading/Foundations	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
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
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Architectural Coating	Air Compressors	4	6.00	78	0.48

Trips and VMT

Willowbrook III Project - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition/Site Clearing	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading/Foundations	3	8.00	0.00	714.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	41.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition/Site Clearing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1790	0.0000	0.1790	0.0271	0.0000	0.0271			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.1790	0.6766	0.8556	0.0271	0.6328	0.6599		2,324.3959	2,324.3959	0.5893		2,339.1278

Willowbrook III Project - South Coast AQMD Air District, Winter

3.2 Demolition/Site Clearing - 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	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

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					0.0805	0.0000	0.0805	0.0122	0.0000	0.0122			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0805	0.6766	0.7572	0.0122	0.6328	0.6450	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

Willowbrook III Project - South Coast AQMD Air District, Winter

3.2 Demolition/Site Clearing - 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	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419
Total	0.0532	0.0318	0.3744	1.2500e-003	0.1453	1.0100e-003	0.1463	0.0385	9.3000e-004	0.0395		124.9685	124.9685	2.9400e-003		125.0419

3.3 Grading/Foundations - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9400	0.0000	4.9400	2.5295	0.0000	2.5295			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865		1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	4.9400	0.4201	5.3600	2.5295	0.3865	2.9160		1,364.7713	1,364.7713	0.4414		1,375.8062

Willowbrook III Project - South Coast AQMD Air District, Winter

3.3 Grading/Foundations - 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	0.2091	6.1860	2.2808	0.0332	0.8503	0.0136	0.8639	0.2330	0.0130	0.2460		3,602.0626	3,602.0626	0.2277		3,607.7560
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	0.0327	0.0196	0.2304	7.7000e-004	0.0894	6.2000e-004	0.0900	0.0237	5.7000e-004	0.0243		76.9037	76.9037	1.8100e-003		76.9489
Total	0.2418	6.2056	2.5112	0.0339	0.9397	0.0142	0.9539	0.2567	0.0136	0.2703		3,678.9663	3,678.9663	0.2295		3,684.7049

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					2.2230	0.0000	2.2230	1.1383	0.0000	1.1383			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	2.2230	0.4201	2.6431	1.1383	0.3865	1.5248	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062

Willowbrook III Project - South Coast AQMD Air District, Winter

3.3 Grading/Foundations - 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	0.2091	6.1860	2.2808	0.0332	0.8503	0.0136	0.8639	0.2330	0.0130	0.2460		3,602.0626	3,602.0626	0.2277		3,607.7560
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	0.0327	0.0196	0.2304	7.7000e-004	0.0894	6.2000e-004	0.0900	0.0237	5.7000e-004	0.0243		76.9037	76.9037	1.8100e-003		76.9489
Total	0.2418	6.2056	2.5112	0.0339	0.9397	0.0142	0.9539	0.2567	0.0136	0.2703		3,678.9663	3,678.9663	0.2295		3,684.7049

3.4 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741		2,761.6290	2,761.6290	0.5746		2,775.9935
Total	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741		2,761.6290	2,761.6290	0.5746		2,775.9935

Willowbrook III Project - South Coast AQMD Air District, Winter

3.4 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	0.0144	0.4760	0.1482	1.6600e-003	0.0448	5.6000e-004	0.0454	0.0129	5.4000e-004	0.0134		178.0532	178.0532	0.0103		178.3112
Worker	0.1677	0.1004	1.1808	3.9500e-003	0.4583	3.1900e-003	0.4615	0.1215	2.9400e-003	0.1245		394.1315	394.1315	9.2600e-003		394.3630
Total	0.1821	0.5764	1.3290	5.6100e-003	0.5031	3.7500e-003	0.5068	0.1344	3.4800e-003	0.1379		572.1847	572.1847	0.0196		572.6742

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741	0.0000	2,761.6290	2,761.6290	0.5746		2,775.9935
Total	1.9277	15.5715	17.6548	0.0301		0.7060	0.7060		0.6741	0.6741	0.0000	2,761.6290	2,761.6290	0.5746		2,775.9935

Willowbrook III Project - South Coast AQMD Air District, Winter

3.4 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	0.0144	0.4760	0.1482	1.6600e-003	0.0448	5.6000e-004	0.0454	0.0129	5.4000e-004	0.0134		178.0532	178.0532	0.0103		178.3112
Worker	0.1677	0.1004	1.1808	3.9500e-003	0.4583	3.1900e-003	0.4615	0.1215	2.9400e-003	0.1245		394.1315	394.1315	9.2600e-003		394.3630
Total	0.1821	0.5764	1.3290	5.6100e-003	0.5031	3.7500e-003	0.5068	0.1344	3.4800e-003	0.1379		572.1847	572.1847	0.0196		572.6742

3.4 Building Construction - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981		2,761.7457	2,761.7457	0.5680		2,775.9467
Total	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981		2,761.7457	2,761.7457	0.5680		2,775.9467

Willowbrook III Project - South Coast AQMD Air District, Winter

3.4 Building Construction - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0141	0.4750	0.1440	1.6600e-003	0.0448	5.6000e-004	0.0454	0.0129	5.3000e-004	0.0134		177.4476	177.4476	0.0102		177.7013
Worker	0.1592	0.0914	1.1009	3.8200e-003	0.4583	3.1500e-003	0.4614	0.1215	2.9000e-003	0.1244		381.1452	381.1452	8.4800e-003		381.3572
Total	0.1733	0.5664	1.2449	5.4800e-003	0.5031	3.7100e-003	0.5068	0.1344	3.4300e-003	0.1379		558.5928	558.5928	0.0186		559.0585

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981	0.0000	2,761.7457	2,761.7457	0.5680		2,775.9467
Total	1.8081	14.6982	17.5686	0.0301		0.6269	0.6269		0.5981	0.5981	0.0000	2,761.7457	2,761.7457	0.5680		2,775.9467

Willowbrook III Project - South Coast AQMD Air District, Winter

3.4 Building Construction - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0141	0.4750	0.1440	1.6600e-003	0.0448	5.6000e-004	0.0454	0.0129	5.3000e-004	0.0134		177.4476	177.4476	0.0102		177.7013
Worker	0.1592	0.0914	1.1009	3.8200e-003	0.4583	3.1500e-003	0.4614	0.1215	2.9000e-003	0.1244		381.1452	381.1452	8.4800e-003		381.3572
Total	0.1733	0.5664	1.2449	5.4800e-003	0.5031	3.7100e-003	0.5068	0.1344	3.4300e-003	0.1379		558.5928	558.5928	0.0186		559.0585

3.5 Architectural Coating - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	4.6991					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7923	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605		1,451.0319	1,451.0319	0.1686		1,455.2464
Total	5.4914	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605		1,451.0319	1,451.0319	0.1686		1,455.2464

Willowbrook III Project - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0311	0.0178	0.2148	7.5000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		74.3698	74.3698	1.6500e-003		74.4112
Total	0.0311	0.0178	0.2148	7.5000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		74.3698	74.3698	1.6500e-003		74.4112

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	4.6991					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7923	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605	0.0000	1,451.0319	1,451.0319	0.1686		1,455.2464
Total	5.4914	5.9278	9.4261	0.0153		0.2619	0.2619		0.2605	0.2605	0.0000	1,451.0319	1,451.0319	0.1686		1,455.2464

Willowbrook III Project - South Coast AQMD Air District, Winter

3.5 Architectural Coating - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0311	0.0178	0.2148	7.5000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		74.3698	74.3698	1.6500e-003		74.4112
Total	0.0311	0.0178	0.2148	7.5000e-004	0.0894	6.1000e-004	0.0900	0.0237	5.7000e-004	0.0243		74.3698	74.3698	1.6500e-003		74.4112

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Willowbrook III Project - South Coast AQMD Air District, 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	0.5225	2.5266	6.9200	0.0288	2.6531	0.0209	2.6740	0.7098	0.0195	0.7293		2,940.2639	2,940.2639	0.1318		2,943.5590
Unmitigated	0.5225	2.5266	6.9200	0.0288	2.6531	0.0209	2.6740	0.7098	0.0195	0.7293		2,940.2639	2,940.2639	0.1318		2,943.5590

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	336.09	365.16	309.57	1,149,715	1,149,715
Parking Lot	0.00	0.00	0.00		
Total	336.09	365.16	309.57	1,149,715	1,149,715

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	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

Willowbrook III Project - South Coast AQMD Air District, 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	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
NaturalGas Unmitigated	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

Willowbrook III Project - South Coast AQMD Air District, 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	2283.09	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

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	2.28309	0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0246	0.2104	0.0895	1.3400e-003		0.0170	0.0170		0.0170	0.0170		268.5990	268.5990	5.1500e-003	4.9200e-003	270.1951

6.0 Area Detail**6.1 Mitigation Measures Area**

Willowbrook III Project - South Coast AQMD Air District, Winter

No Hearths Installed

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust 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	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629
Unmitigated	1.1879	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

Willowbrook III Project - South Coast AQMD Air District, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0850					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9766					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	0.1264	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233		7.5812	7.5812	7.2700e-003		7.7629
Total	1.1880	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

Willowbrook III Project - South Coast AQMD Air District, 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	0.0850					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9766					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	0.1264	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233		7.5812	7.5812	7.2700e-003		7.7629
Total	1.1880	0.0484	4.2059	2.2000e-004		0.0233	0.0233		0.0233	0.0233	0.0000	7.5812	7.5812	7.2700e-003	0.0000	7.7629

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Willowbrook III Project - South Coast AQMD Air District, Winter

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	1000	0.73	Diesel

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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10.1 Stationary Sources**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283
Total	0.8205	3.6694	2.0922	3.9400e-003		0.1207	0.1207		0.1207	0.1207		419.7571	419.7571	0.0589		421.2283

11.0 Vegetation