

APPENDIX B: GREENHOUSE GAS EMISSIONS WORKSHEETS

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

12611 S. Willowbrook Avenue - Existing Conditions Only

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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

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1067	0.8037	0.7601	1.3200e-003	1.6500e-003	0.0401	0.0417	4.5000e-004	0.0387	0.0391	0.0000	108.7517	108.7517	0.0191	0.0000	109.2288
2022	0.0893	0.5300	0.5408	9.5000e-004	1.1700e-003	0.0249	0.0260	3.2000e-004	0.0240	0.0244	0.0000	78.4001	78.4001	0.0133	0.0000	78.7323
Maximum	0.1067	0.8037	0.7601	1.3200e-003	1.6500e-003	0.0401	0.0417	4.5000e-004	0.0387	0.0391	0.0000	108.7517	108.7517	0.0191	0.0000	109.2288

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1067	0.8037	0.7601	1.3200e-003	1.6500e-003	0.0401	0.0417	4.5000e-004	0.0387	0.0391	0.0000	108.7516	108.7516	0.0191	0.0000	109.2286
2022	0.0893	0.5300	0.5408	9.5000e-004	1.1700e-003	0.0249	0.0260	3.2000e-004	0.0240	0.0244	0.0000	78.4000	78.4000	0.0133	0.0000	78.7322
Maximum	0.1067	0.8037	0.7601	1.3200e-003	1.6500e-003	0.0401	0.0417	4.5000e-004	0.0387	0.0391	0.0000	108.7516	108.7516	0.0191	0.0000	109.2286

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-16-2021	9-15-2021	0.3112	0.3112
2	9-16-2021	12-15-2021	0.5058	0.5058
3	12-16-2021	3-15-2022	0.4658	0.4658
4	3-16-2022	6-15-2022	0.2464	0.2464
		Highest	0.5058	0.5058

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.0651	12.0651	4.4000e-004	1.3000e-004	12.1145
Mobile	0.0539	0.2691	0.5238	1.6700e-003	0.1261	1.4000e-003	0.1276	0.0338	1.3100e-003	0.0351	0.0000	153.9768	153.9768	8.8700e-003	0.0000	154.1986
Waste						0.0000	0.0000		0.0000	0.0000	1.1022	0.0000	1.1022	0.0651	0.0000	2.7308
Water						0.0000	0.0000		0.0000	0.0000	0.0569	2.3757	2.4326	5.9400e-003	1.6000e-004	2.6282
Total	0.0712	0.2715	0.5259	1.6800e-003	0.1261	1.5800e-003	0.1277	0.0338	1.4900e-003	0.0353	1.1591	168.4176	169.5767	0.0804	2.9000e-004	171.6721

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.0651	12.0651	4.4000e-004	1.3000e-004	12.1145
Mobile	0.0539	0.2691	0.5238	1.6700e-003	0.1261	1.4000e-003	0.1276	0.0338	1.3100e-003	0.0351	0.0000	153.9768	153.9768	8.8700e-003	0.0000	154.1986
Waste						0.0000	0.0000		0.0000	0.0000	1.1022	0.0000	1.1022	0.0651	0.0000	2.7308
Water						0.0000	0.0000		0.0000	0.0000	0.0569	2.3757	2.4326	5.9400e-003	1.6000e-004	2.6282
Total	0.0712	0.2715	0.5259	1.6800e-003	0.1261	1.5800e-003	0.1277	0.0338	1.4900e-003	0.0353	1.1591	168.4176	169.5767	0.0804	2.9000e-004	171.6721

	ROG	NOx	CO	SO2	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	

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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

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

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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	tons/yr										MT/yr					
Off-Road	0.1060	0.7977	0.7546	1.2900e-003		0.0400	0.0400		0.0387	0.0387	0.0000	106.2054	106.2054	0.0190	0.0000	106.6794
Total	0.1060	0.7977	0.7546	1.2900e-003		0.0400	0.0400		0.0387	0.0387	0.0000	106.2054	106.2054	0.0190	0.0000	106.6794

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.6600e-003	1.4000e-003	1.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4283	1.4283	9.0000e-005	0.0000	1.4305
Worker	4.9000e-004	3.6000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1181	1.1181	3.0000e-005	0.0000	1.1189
Total	6.6000e-004	6.0200e-003	5.4800e-003	2.0000e-005	1.6500e-003	2.0000e-005	1.6700e-003	4.5000e-004	2.0000e-005	4.7000e-004	0.0000	2.5464	2.5464	1.2000e-004	0.0000	2.5494

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3.2 IGNORE Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1060	0.7977	0.7546	1.2900e-003		0.0400	0.0400		0.0387	0.0387	0.0000	106.2052	106.2052	0.0190	0.0000	106.6792
Total	0.1060	0.7977	0.7546	1.2900e-003		0.0400	0.0400		0.0387	0.0387	0.0000	106.2052	106.2052	0.0190	0.0000	106.6792

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.6600e-003	1.4000e-003	1.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.4283	1.4283	9.0000e-005	0.0000	1.4305
Worker	4.9000e-004	3.6000e-004	4.0800e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1181	1.1181	3.0000e-005	0.0000	1.1189
Total	6.6000e-004	6.0200e-003	5.4800e-003	2.0000e-005	1.6500e-003	2.0000e-005	1.6700e-003	4.5000e-004	2.0000e-005	4.7000e-004	0.0000	2.5464	2.5464	1.2000e-004	0.0000	2.5494

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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	tons/yr										MT/yr					
Off-Road	0.0684	0.5189	0.5282	9.2000e-004		0.0244	0.0244		0.0236	0.0236	0.0000	75.3544	75.3544	0.0131	0.0000	75.6825
Total	0.0684	0.5189	0.5282	9.2000e-004		0.0244	0.0244		0.0236	0.0236	0.0000	75.3544	75.3544	0.0131	0.0000	75.6825

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8100e-003	9.4000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0043	1.0043	6.0000e-005	0.0000	1.0058
Worker	3.2000e-004	2.3000e-004	2.6700e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7648	0.7648	2.0000e-005	0.0000	0.7652
Total	4.3000e-004	4.0400e-003	3.6100e-003	2.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.3000e-004	0.0000	1.7691	1.7691	8.0000e-005	0.0000	1.7711

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0684	0.5189	0.5282	9.2000e-004		0.0244	0.0244		0.0236	0.0236	0.0000	75.3543	75.3543	0.0131	0.0000	75.6824
Total	0.0684	0.5189	0.5282	9.2000e-004		0.0244	0.0244		0.0236	0.0236	0.0000	75.3543	75.3543	0.0131	0.0000	75.6824

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.8100e-003	9.4000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0043	1.0043	6.0000e-005	0.0000	1.0058
Worker	3.2000e-004	2.3000e-004	2.6700e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7648	0.7648	2.0000e-005	0.0000	0.7652
Total	4.3000e-004	4.0400e-003	3.6100e-003	2.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.3000e-004	0.0000	1.7691	1.7691	8.0000e-005	0.0000	1.7711

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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	tons/yr										MT/yr					
Archit. Coating	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.0204	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

Unmitigated Construction Off-Site

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3.3 IGNORE Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.0204	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0539	0.2691	0.5238	1.6700e-003	0.1261	1.4000e-003	0.1276	0.0338	1.3100e-003	0.0351	0.0000	153.9768	153.9768	8.8700e-003	0.0000	154.1986
Unmitigated	0.0539	0.2691	0.5238	1.6700e-003	0.1261	1.4000e-003	0.1276	0.0338	1.3100e-003	0.0351	0.0000	153.9768	153.9768	8.8700e-003	0.0000	154.1986

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

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5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.4339	9.4339	3.9000e-004	8.0000e-005	9.4677
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9.4339	9.4339	3.9000e-004	8.0000e-005	9.4677
NaturalGas Mitigated	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468
NaturalGas Unmitigated	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	49305.8	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468
Total		2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Day-Care Center	49305.8	2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468
Total		2.7000e-004	2.4200e-003	2.0300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6311	2.6311	5.0000e-005	5.0000e-005	2.6468

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	29608.6	9.4339	3.9000e-004	8.0000e-005	9.4677
Total		9.4339	3.9000e-004	8.0000e-005	9.4677

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	29608.6	9.4339	3.9000e-004	8.0000e-005	9.4677
Total		9.4339	3.9000e-004	8.0000e-005	9.4677

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0151					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Total	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0151					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Total	0.0171	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.4326	5.9400e-003	1.6000e-004	2.6282
Unmitigated	2.4326	5.9400e-003	1.6000e-004	2.6282

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.179278 / 0.461002	2.4326	5.9400e-003	1.6000e-004	2.6282
Total		2.4326	5.9400e-003	1.6000e-004	2.6282

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.179278 / 0.461002	2.4326	5.9400e-003	1.6000e-004	2.6282
Total		2.4326	5.9400e-003	1.6000e-004	2.6282

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1022	0.0651	0.0000	2.7308
Unmitigated	1.1022	0.0651	0.0000	2.7308

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	5.43	1.1022	0.0651	0.0000	2.7308
Total		1.1022	0.0651	0.0000	2.7308

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	5.43	1.1022	0.0651	0.0000	2.7308
Total		1.1022	0.0651	0.0000	2.7308

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Willowbrook III Project - South Coast AQMD Air District, Annual

Willowbrook III Project

South Coast AQMD Air District, Annual

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/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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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

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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

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2114	1.7441	1.8921	3.9200e-003	0.1109	0.0740	0.1849	0.0428	0.0703	0.1131	0.0000	338.5734	338.5734	0.0595	0.0000	340.0597
2024	0.3541	1.5327	1.9670	3.6500e-003	0.0461	0.0638	0.1100	0.0123	0.0613	0.0736	0.0000	310.0279	310.0279	0.0517	0.0000	311.3192
Maximum	0.3541	1.7441	1.9670	3.9200e-003	0.1109	0.0740	0.1849	0.0428	0.0703	0.1131	0.0000	338.5734	338.5734	0.0595	0.0000	340.0597

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2114	1.7441	1.8921	3.9200e-003	0.0799	0.0740	0.1539	0.0273	0.0703	0.0976	0.0000	338.5731	338.5731	0.0595	0.0000	340.0594
2024	0.3541	1.5327	1.9670	3.6500e-003	0.0461	0.0638	0.1100	0.0123	0.0613	0.0736	0.0000	310.0276	310.0276	0.0517	0.0000	311.3189
Maximum	0.3541	1.7441	1.9670	3.9200e-003	0.0799	0.0740	0.1539	0.0273	0.0703	0.0976	0.0000	338.5731	338.5731	0.0595	0.0000	340.0594

	ROG	NOx	CO	SO2	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	19.75	0.00	10.52	28.08	0.00	8.29	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2023	5-31-2023	0.5644	0.5644
2	6-1-2023	8-31-2023	0.5992	0.5992
3	9-1-2023	11-30-2023	0.5931	0.5931
4	12-1-2023	2-29-2024	0.5717	0.5717
5	3-1-2024	5-31-2024	0.5662	0.5662
6	6-1-2024	8-31-2024	0.5660	0.5660
7	9-1-2024	9-30-2024	0.1228	0.1228
		Highest	0.5992	0.5992

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803
Energy	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	114.4006	114.4006	3.7400e-003	1.4100e-003	114.9150
Mobile	0.0859	0.4308	1.1809	4.9000e-003	0.4368	3.5000e-003	0.4403	0.1171	3.2500e-003	0.1203	0.0000	453.8087	453.8087	0.0199	0.0000	454.3071
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	4.7622	0.0000	4.7622	0.2814	0.0000	11.7981
Water						0.0000	0.0000		0.0000	0.0000	1.0542	21.2013	22.2555	0.1092	2.7400e-003	25.8001
Total	0.3097	0.5192	1.7481	5.2300e-003	0.4368	0.0110	0.4478	0.1171	0.0107	0.1278	5.8164	594.8398	600.6561	0.4157	4.1500e-003	612.2861

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803
Energy	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	114.4006	114.4006	3.7400e-003	1.4100e-003	114.9150
Mobile	0.0859	0.4308	1.1809	4.9000e-003	0.4368	3.5000e-003	0.4403	0.1171	3.2500e-003	0.1203	0.0000	453.8087	453.8087	0.0199	0.0000	454.3071
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	1.4287	0.0000	1.4287	0.0844	0.0000	3.5394
Water						0.0000	0.0000		0.0000	0.0000	1.0542	21.2013	22.2555	0.1092	2.7400e-003	25.8001
Total	0.3097	0.5192	1.7481	5.2300e-003	0.4368	0.0110	0.4478	0.1171	0.0107	0.1278	2.4828	594.8398	597.3226	0.2187	4.1500e-003	604.0275

	ROG	NOx	CO	SO2	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	57.31	0.00	0.55	47.39	0.00	1.35

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
New Trees	2.8320
Total	2.8320

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	

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)

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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

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

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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	tons/yr										MT/yr					
Fugitive Dust					2.0600e-003	0.0000	2.0600e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1647	0.1548	2.8000e-004		7.7800e-003	7.7800e-003		7.2800e-003	7.2800e-003	0.0000	24.2496	24.2496	6.1500e-003	0.0000	24.4032
Total	0.0169	0.1647	0.1548	2.8000e-004	2.0600e-003	7.7800e-003	9.8400e-003	3.1000e-004	7.2800e-003	7.5900e-003	0.0000	24.2496	24.2496	6.1500e-003	0.0000	24.4032

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.4400e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3261	1.3261	3.0000e-005	0.0000	1.3269
Total	5.5000e-004	3.8000e-004	4.4400e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3261	1.3261	3.0000e-005	0.0000	1.3269

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1647	0.1548	2.8000e-004		7.7800e-003	7.7800e-003		7.2800e-003	7.2800e-003	0.0000	24.2495	24.2495	6.1500e-003	0.0000	24.4032
Total	0.0169	0.1647	0.1548	2.8000e-004	9.3000e-004	7.7800e-003	8.7100e-003	1.4000e-004	7.2800e-003	7.4200e-003	0.0000	24.2495	24.2495	6.1500e-003	0.0000	24.4032

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	3.8000e-004	4.4400e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3261	1.3261	3.0000e-005	0.0000	1.3269
Total	5.5000e-004	3.8000e-004	4.4400e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3261	1.3261	3.0000e-005	0.0000	1.3269

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	tons/yr										MT/yr					
Fugitive Dust					0.0543	0.0000	0.0543	0.0278	0.0000	0.0278	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1120	0.0611	1.5000e-004		4.6200e-003	4.6200e-003		4.2500e-003	4.2500e-003	0.0000	13.6191	13.6191	4.4000e-003	0.0000	13.7292
Total	0.0103	0.1120	0.0611	1.5000e-004	0.0543	4.6200e-003	0.0590	0.0278	4.2500e-003	0.0321	0.0000	13.6191	13.6191	4.4000e-003	0.0000	13.7292

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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	tons/yr										MT/yr					
Hauling	2.2700e-003	0.0692	0.0246	3.7000e-004	9.2000e-003	1.5000e-004	9.3500e-003	2.5300e-003	1.4000e-004	2.6700e-003	0.0000	36.2190	36.2190	2.2400e-003	0.0000	36.2750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.6100e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.7806	0.7806	2.0000e-005	0.0000	0.7811
Total	2.5900e-003	0.0694	0.0272	3.8000e-004	0.0102	1.6000e-004	0.0103	2.7900e-003	1.5000e-004	2.9300e-003	0.0000	36.9996	36.9996	2.2600e-003	0.0000	37.0561

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0245	0.0000	0.0245	0.0125	0.0000	0.0125	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1120	0.0611	1.5000e-004		4.6200e-003	4.6200e-003		4.2500e-003	4.2500e-003	0.0000	13.6191	13.6191	4.4000e-003	0.0000	13.7292
Total	0.0103	0.1120	0.0611	1.5000e-004	0.0245	4.6200e-003	0.0291	0.0125	4.2500e-003	0.0168	0.0000	13.6191	13.6191	4.4000e-003	0.0000	13.7292

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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	tons/yr										MT/yr					
Hauling	2.2700e-003	0.0692	0.0246	3.7000e-004	9.2000e-003	1.5000e-004	9.3500e-003	2.5300e-003	1.4000e-004	2.6700e-003	0.0000	36.2190	36.2190	2.2400e-003	0.0000	36.2750
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.6100e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.7806	0.7806	2.0000e-005	0.0000	0.7811
Total	2.5900e-003	0.0694	0.0272	3.8000e-004	0.0102	1.6000e-004	0.0103	2.7900e-003	1.5000e-004	2.9300e-003	0.0000	36.9996	36.9996	2.2600e-003	0.0000	37.0561

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	tons/yr										MT/yr					
Off-Road	0.1667	1.3469	1.5271	2.6000e-003		0.0611	0.0611		0.0583	0.0583	0.0000	216.7091	216.7091	0.0451	0.0000	217.8363
Total	0.1667	1.3469	1.5271	2.6000e-003		0.0611	0.0611		0.0583	0.0583	0.0000	216.7091	216.7091	0.0451	0.0000	217.8363

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2100e-003	0.0418	0.0123	1.5000e-004	3.8200e-003	5.0000e-005	3.8600e-003	1.1000e-003	5.0000e-005	1.1500e-003	0.0000	14.2112	14.2112	7.8000e-004	0.0000	14.2308
Worker	0.0131	8.9300e-003	0.1052	3.5000e-004	0.0389	2.8000e-004	0.0392	0.0103	2.5000e-004	0.0106	0.0000	31.4587	31.4587	7.4000e-004	0.0000	31.4772
Total	0.0143	0.0507	0.1175	5.0000e-004	0.0427	3.3000e-004	0.0431	0.0114	3.0000e-004	0.0117	0.0000	45.6699	45.6699	1.5200e-003	0.0000	45.7080

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1667	1.3469	1.5271	2.6000e-003		0.0611	0.0611		0.0583	0.0583	0.0000	216.7089	216.7089	0.0451	0.0000	217.8361
Total	0.1667	1.3469	1.5271	2.6000e-003		0.0611	0.0611		0.0583	0.0583	0.0000	216.7089	216.7089	0.0451	0.0000	217.8361

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2100e-003	0.0418	0.0123	1.5000e-004	3.8200e-003	5.0000e-005	3.8600e-003	1.1000e-003	5.0000e-005	1.1500e-003	0.0000	14.2112	14.2112	7.8000e-004	0.0000	14.2308
Worker	0.0131	8.9300e-003	0.1052	3.5000e-004	0.0389	2.8000e-004	0.0392	0.0103	2.5000e-004	0.0106	0.0000	31.4587	31.4587	7.4000e-004	0.0000	31.4772
Total	0.0143	0.0507	0.1175	5.0000e-004	0.0427	3.3000e-004	0.0431	0.0114	3.0000e-004	0.0117	0.0000	45.6699	45.6699	1.5200e-003	0.0000	45.7080

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	tons/yr										MT/yr					
Off-Road	0.1582	1.2861	1.5373	2.6300e-003		0.0549	0.0549		0.0523	0.0523	0.0000	219.2237	219.2237	0.0451	0.0000	220.3509
Total	0.1582	1.2861	1.5373	2.6300e-003		0.0549	0.0549		0.0523	0.0523	0.0000	219.2237	219.2237	0.0451	0.0000	220.3509

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0422	0.0121	1.5000e-004	3.8600e-003	5.0000e-005	3.9100e-003	1.1100e-003	5.0000e-005	1.1600e-003	0.0000	14.3247	14.3247	7.8000e-004	0.0000	14.3442
Worker	0.0125	8.2300e-003	0.0993	3.4000e-004	0.0394	2.8000e-004	0.0396	0.0105	2.5000e-004	0.0107	0.0000	30.7751	30.7751	6.9000e-004	0.0000	30.7923
Total	0.0137	0.0504	0.1113	4.9000e-004	0.0432	3.3000e-004	0.0436	0.0116	3.0000e-004	0.0119	0.0000	45.0999	45.0999	1.4700e-003	0.0000	45.1365

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1582	1.2861	1.5373	2.6300e-003		0.0549	0.0549		0.0523	0.0523	0.0000	219.2234	219.2234	0.0451	0.0000	220.3507
Total	0.1582	1.2861	1.5373	2.6300e-003		0.0549	0.0549		0.0523	0.0523	0.0000	219.2234	219.2234	0.0451	0.0000	220.3507

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0422	0.0121	1.5000e-004	3.8600e-003	5.0000e-005	3.9100e-003	1.1100e-003	5.0000e-005	1.1600e-003	0.0000	14.3247	14.3247	7.8000e-004	0.0000	14.3442
Worker	0.0125	8.2300e-003	0.0993	3.4000e-004	0.0394	2.8000e-004	0.0396	0.0105	2.5000e-004	0.0107	0.0000	30.7751	30.7751	6.9000e-004	0.0000	30.7923
Total	0.0137	0.0504	0.1113	4.9000e-004	0.0432	3.3000e-004	0.0436	0.0116	3.0000e-004	0.0119	0.0000	45.0999	45.0999	1.4700e-003	0.0000	45.1365

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	tons/yr										MT/yr					
Archit. Coating	0.1551					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.1956	0.3111	5.0000e-004		8.6400e-003	8.6400e-003		8.5900e-003	8.5900e-003	0.0000	43.4397	43.4397	5.0500e-003	0.0000	43.5659
Total	0.1812	0.1956	0.3111	5.0000e-004		8.6400e-003	8.6400e-003		8.5900e-003	8.5900e-003	0.0000	43.4397	43.4397	5.0500e-003	0.0000	43.5659

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.1000e-004	7.3100e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.2647	2.2647	5.0000e-005	0.0000	2.2660
Total	9.2000e-004	6.1000e-004	7.3100e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.2647	2.2647	5.0000e-005	0.0000	2.2660

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1551					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.1956	0.3111	5.0000e-004		8.6400e-003	8.6400e-003		8.5900e-003	8.5900e-003	0.0000	43.4396	43.4396	5.0500e-003	0.0000	43.5658
Total	0.1812	0.1956	0.3111	5.0000e-004		8.6400e-003	8.6400e-003		8.5900e-003	8.5900e-003	0.0000	43.4396	43.4396	5.0500e-003	0.0000	43.5658

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	6.1000e-004	7.3100e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.2647	2.2647	5.0000e-005	0.0000	2.2660
Total	9.2000e-004	6.1000e-004	7.3100e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.2647	2.2647	5.0000e-005	0.0000	2.2660

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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0859	0.4308	1.1809	4.9000e-003	0.4368	3.5000e-003	0.4403	0.1171	3.2500e-003	0.1203	0.0000	453.8087	453.8087	0.0199	0.0000	454.3071
Unmitigated	0.0859	0.4308	1.1809	4.9000e-003	0.4368	3.5000e-003	0.4403	0.1171	3.2500e-003	0.1203	0.0000	453.8087	453.8087	0.0199	0.0000	454.3071

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

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.9310	69.9310	2.8900e-003	6.0000e-004	70.1812
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.9310	69.9310	2.8900e-003	6.0000e-004	70.1812
NaturalGas Mitigated	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338
NaturalGas Unmitigated	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	833328	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	833328	4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.4900e-003	0.0384	0.0163	2.5000e-004		3.1000e-003	3.1000e-003		3.1000e-003	3.1000e-003	0.0000	44.4696	44.4696	8.5000e-004	8.2000e-004	44.7338

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	216260	68.9050	2.8400e-003	5.9000e-004	69.1515
Parking Lot	3220	1.0260	4.0000e-005	1.0000e-005	1.0296
Total		69.9310	2.8800e-003	6.0000e-004	70.1812

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	216260	68.9050	2.8400e-003	5.9000e-004	69.1515
Parking Lot	3220	1.0260	4.0000e-005	1.0000e-005	1.0296
Total		69.9310	2.8800e-003	6.0000e-004	70.1812

6.0 Area Detail**6.1 Mitigation Measures Area**

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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	tons/yr										MT/yr					
Mitigated	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803
Unmitigated	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0155					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0158	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803
Total	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0155					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1782					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0158	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803
Total	0.2095	6.0600e-003	0.5257	3.0000e-005		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	0.8597	0.8597	8.2000e-004	0.0000	0.8803

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.2555	0.1092	2.7400e-003	25.8001
Unmitigated	22.2555	0.1092	2.7400e-003	25.8001

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	3.32286 / 2.09484	22.2555	0.1092	2.7400e-003	25.8001
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.2555	0.1092	2.7400e-003	25.8001

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	3.32286 / 2.09484	22.2555	0.1092	2.7400e-003	25.8001
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.2555	0.1092	2.7400e-003	25.8001

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.4287	0.0844	0.0000	3.5394
Unmitigated	4.7622	0.2814	0.0000	11.7981

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	23.46	4.7622	0.2814	0.0000	11.7981
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.7622	0.2814	0.0000	11.7981

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	7.038	1.4287	0.0844	0.0000	3.5394
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.4287	0.0844	0.0000	3.5394

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
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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Total	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	2.8320	0.0000	0.0000	2.8320

11.2 Net New Trees**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	4	2.8320	0.0000	0.0000	2.8320
Total		2.8320	0.0000	0.0000	2.8320