

APPENDIX C -
GREENHOUSE GAS ANALYSIS
CALCULATION DATA

Camino Ruiz Apartment Community - Ventura County, Annual

**Camino Ruiz Apartment Community
Ventura County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	386.00	Dwelling Unit	14.00	386,000.00	965

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2035
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

Project Characteristics -

Land Use - Project site lot area is approximately 14 acres. Population is estimated to be 965 persons based on a City average of 2.5 persons per apartment unit.

Construction Phase - Default dates changed to reflect anticipated construction schedule.

Vehicle Trips - Default trip generation rates changed to be consistent with project traffic report.

Energy Mitigation - Assumes a minimum building energy efficiency of 15% per CalGreen Code requirements.

Water Mitigation - Assumes indoor water use reduction features per CalGreen Code requirements.

Waste Mitigation - Assumes a minimum 79% reduction in solid waste per current City efforts.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	300.00	700.00
tblLandUse	LotAcreage	10.16	14.00
tblLandUse	Population	1,181.00	965.00
tblVehicleTrips	ST_TR	6.39	6.00
tblVehicleTrips	SU_TR	5.86	5.00
tblVehicleTrips	WD_TR	6.65	6.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0941	0.9794	0.6694	1.3100e-003	0.1476	0.0438	0.1914	0.0586	0.0405	0.0991	0.0000	117.8512	117.8512	0.0308	0.0000	118.6217
2020	0.4305	3.1872	3.3355	7.6800e-003	0.3294	0.1519	0.4813	0.0883	0.1429	0.2312	0.0000	688.7659	688.7659	0.0918	0.0000	691.0614
2021	0.3890	2.8780	3.1972	7.5600e-003	0.3282	0.1286	0.4568	0.0880	0.1209	0.2089	0.0000	677.7678	677.7678	0.0896	0.0000	680.0079
2022	2.2100	1.8019	2.1982	5.1600e-003	0.2222	0.0771	0.2993	0.0595	0.0725	0.1320	0.0000	461.6230	461.6230	0.0630	0.0000	463.1974
Maximum	2.2100	3.1872	3.3355	7.6800e-003	0.3294	0.1519	0.4813	0.0883	0.1429	0.2312	0.0000	688.7659	688.7659	0.0918	0.0000	691.0614

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2.1 Overall Construction

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					
2019	0.0941	0.9794	0.6694	1.3100e-003	0.1476	0.0438	0.1914	0.0586	0.0405	0.0991	0.0000	117.8511	117.8511	0.0308	0.0000	118.6216
2020	0.4305	3.1872	3.3354	7.6800e-003	0.3294	0.1519	0.4813	0.0883	0.1429	0.2312	0.0000	688.7655	688.7655	0.0918	0.0000	691.0610
2021	0.3890	2.8780	3.1972	7.5600e-003	0.3282	0.1286	0.4568	0.0880	0.1209	0.2089	0.0000	677.7674	677.7674	0.0896	0.0000	680.0076
2022	2.2100	1.8019	2.1982	5.1600e-003	0.2222	0.0771	0.2993	0.0595	0.0725	0.1320	0.0000	461.6228	461.6228	0.0630	0.0000	463.1972
Maximum	2.2100	3.1872	3.3354	7.6800e-003	0.3294	0.1519	0.4813	0.0883	0.1429	0.2312	0.0000	688.7655	688.7655	0.0918	0.0000	691.0610

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-4-2019	2-3-2020	1.3597	1.3597
2	2-4-2020	5-3-2020	0.8879	0.8879
3	5-4-2020	8-3-2020	0.9023	0.9023
4	8-4-2020	11-3-2020	0.9054	0.9054
5	11-4-2020	2-3-2021	0.8792	0.8792
6	2-4-2021	5-3-2021	0.7961	0.7961
7	5-4-2021	8-3-2021	0.8183	0.8183
8	8-4-2021	11-3-2021	0.8210	0.8210

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9	11-4-2021	2-3-2022	0.7967	0.7967
10	2-4-2022	5-3-2022	0.7206	0.7206
11	5-4-2022	8-3-2022	0.7407	0.7407
12	8-4-2022	9-30-2022	0.5315	0.5315
		Highest	1.3597	1.3597

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931
Energy	0.0238	0.2033	0.0865	1.3000e-003		0.0164	0.0164		0.0164	0.0164	0.0000	724.3014	724.3014	0.0247	8.4900e-003	727.4493
Mobile	0.2705	1.2908	3.6119	0.0184	2.3618	9.5400e-003	2.3713	0.6315	8.8400e-003	0.6404	0.0000	1,708.7853	1,708.7853	0.0562	0.0000	1,710.1906
Waste						0.0000	0.0000		0.0000	0.0000	36.0431	0.0000	36.0431	2.1301	0.0000	89.2952
Water						0.0000	0.0000		0.0000	0.0000	7.9788	160.4645	168.4432	0.8261	0.0207	195.2710
Total	2.0835	1.5270	6.5544	0.0199	2.3618	0.0419	2.4037	0.6315	0.0412	0.6727	44.0218	2,598.2329	2,642.2547	3.0416	0.0292	2,726.9992

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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	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931
Energy	0.0219	0.1875	0.0798	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	689.0419	689.0419	0.0236	8.0100e-003	692.0205
Mobile	0.2705	1.2908	3.6119	0.0184	2.3618	9.5400e-003	2.3713	0.6315	8.8400e-003	0.6404	0.0000	1,708.7853	1,708.7853	0.0562	0.0000	1,710.1906
Waste						0.0000	0.0000		0.0000	0.0000	7.5691	0.0000	7.5691	0.4473	0.0000	18.7520
Water						0.0000	0.0000		0.0000	0.0000	6.3830	139.5966	145.9796	0.6614	0.0167	167.4820
Total	2.0816	1.5112	6.5477	0.0198	2.3618	0.0406	2.4024	0.6315	0.0399	0.6714	13.9521	2,542.1055	2,556.0576	1.1930	0.0247	2,593.2382

	ROG	NOx	CO	SO2	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	0.09	1.03	0.10	0.50	0.00	3.03	0.05	0.00	3.09	0.19	68.31	2.16	3.26	60.78	15.51	4.91

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/4/2019	12/13/2019	5	30	
2	Building Construction	Building Construction	12/16/2019	8/19/2022	5	700	
3	Paving	Paving	8/22/2022	9/16/2022	5	20	
4	Architectural Coating	Architectural Coating	9/19/2022	12/9/2022	5	60	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 781,650; Residential Outdoor: 260,550; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	278.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129
Total	0.0711	0.8178	0.5007	9.3000e-004	0.1301	0.0357	0.1658	0.0540	0.0329	0.0868	0.0000	83.5520	83.5520	0.0264	0.0000	84.2129

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	8.4000e-004	8.8000e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1401	2.1401	6.0000e-005	0.0000	2.1416
Total	1.1900e-003	8.4000e-004	8.8000e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1401	2.1401	6.0000e-005	0.0000	2.1416

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3.2 Grading - 2019

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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0711	0.8178	0.5007	9.3000e-004		0.0357	0.0357		0.0329	0.0329	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128
Total	0.0711	0.8178	0.5007	9.3000e-004	0.1301	0.0357	0.1658	0.0540	0.0329	0.0868	0.0000	83.5519	83.5519	0.0264	0.0000	84.2128

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	8.4000e-004	8.8000e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1401	2.1401	6.0000e-005	0.0000	2.1416
Total	1.1900e-003	8.4000e-004	8.8000e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4400e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1401	2.1401	6.0000e-005	0.0000	2.1416

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3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1265	0.1030	1.6000e-004		7.7400e-003	7.7400e-003		7.2800e-003	7.2800e-003	0.0000	14.1063	14.1063	3.4400e-003	0.0000	14.1922
Total	0.0142	0.1265	0.1030	1.6000e-004		7.7400e-003	7.7400e-003		7.2800e-003	7.2800e-003	0.0000	14.1063	14.1063	3.4400e-003	0.0000	14.1922

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	1.0200e-003	0.0297	7.9800e-003	6.0000e-005	1.6400e-003	2.4000e-004	1.8800e-003	4.7000e-004	2.3000e-004	7.0000e-004	0.0000	6.1542	6.1542	5.4000e-004	0.0000	6.1676
Worker	6.6200e-003	4.6500e-003	0.0490	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5700e-003	9.0000e-005	3.6600e-003	0.0000	11.8988	11.8988	3.5000e-004	0.0000	11.9075
Total	7.6400e-003	0.0343	0.0569	1.9000e-004	0.0151	3.4000e-004	0.0154	4.0400e-003	3.2000e-004	4.3600e-003	0.0000	18.0529	18.0529	8.9000e-004	0.0000	18.0751

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3.3 Building Construction - 2019

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	0.0142	0.1265	0.1030	1.6000e-004		7.7400e-003	7.7400e-003		7.2800e-003	7.2800e-003	0.0000	14.1062	14.1062	3.4400e-003	0.0000	14.1922
Total	0.0142	0.1265	0.1030	1.6000e-004		7.7400e-003	7.7400e-003		7.2800e-003	7.2800e-003	0.0000	14.1062	14.1062	3.4400e-003	0.0000	14.1922

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	1.0200e-003	0.0297	7.9800e-003	6.0000e-005	1.6400e-003	2.4000e-004	1.8800e-003	4.7000e-004	2.3000e-004	7.0000e-004	0.0000	6.1542	6.1542	5.4000e-004	0.0000	6.1676
Worker	6.6200e-003	4.6500e-003	0.0490	1.3000e-004	0.0135	1.0000e-004	0.0136	3.5700e-003	9.0000e-005	3.6600e-003	0.0000	11.8988	11.8988	3.5000e-004	0.0000	11.9075
Total	7.6400e-003	0.0343	0.0569	1.9000e-004	0.0151	3.4000e-004	0.0154	4.0400e-003	3.2000e-004	4.3600e-003	0.0000	18.0529	18.0529	8.9000e-004	0.0000	18.0751

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3.3 Building Construction - 2020

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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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	0.0184	0.5833	0.1560	1.3700e-003	0.0358	3.4900e-003	0.0392	0.0103	3.3300e-003	0.0137	0.0000	133.7739	133.7739	0.0110	0.0000	134.0493
Worker	0.1344	0.0905	0.9724	2.7800e-003	0.2936	2.1100e-003	0.2958	0.0780	1.9500e-003	0.0799	0.0000	251.5830	251.5830	6.7800e-003	0.0000	251.7525
Total	0.1528	0.6738	1.1283	4.1500e-003	0.3294	5.6000e-003	0.3350	0.0883	5.2800e-003	0.0936	0.0000	385.3568	385.3568	0.0178	0.0000	385.8018

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3.3 Building Construction - 2020

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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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	0.0184	0.5833	0.1560	1.3700e-003	0.0358	3.4900e-003	0.0392	0.0103	3.3300e-003	0.0137	0.0000	133.7739	133.7739	0.0110	0.0000	134.0493
Worker	0.1344	0.0905	0.9724	2.7800e-003	0.2936	2.1100e-003	0.2958	0.0780	1.9500e-003	0.0799	0.0000	251.5830	251.5830	6.7800e-003	0.0000	251.7525
Total	0.1528	0.6738	1.1283	4.1500e-003	0.3294	5.6000e-003	0.3350	0.0883	5.2800e-003	0.0936	0.0000	385.3568	385.3568	0.0178	0.0000	385.8018

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3.3 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

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	0.0154	0.5219	0.1405	1.3600e-003	0.0356	1.4700e-003	0.0371	0.0103	1.4100e-003	0.0117	0.0000	132.3878	132.3878	0.0105	0.0000	132.6509
Worker	0.1255	0.0812	0.8936	2.6900e-003	0.2925	2.0700e-003	0.2946	0.0777	1.9000e-003	0.0796	0.0000	243.0934	243.0934	6.1500e-003	0.0000	243.2472
Total	0.1409	0.6031	1.0341	4.0500e-003	0.3281	3.5400e-003	0.3317	0.0880	3.3100e-003	0.0913	0.0000	375.4812	375.4812	0.0167	0.0000	375.8981

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3.3 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

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	0.0154	0.5219	0.1405	1.3600e-003	0.0356	1.4700e-003	0.0371	0.0103	1.4100e-003	0.0117	0.0000	132.3878	132.3878	0.0105	0.0000	132.6509
Worker	0.1255	0.0812	0.8936	2.6900e-003	0.2925	2.0700e-003	0.2946	0.0777	1.9000e-003	0.0796	0.0000	243.0934	243.0934	6.1500e-003	0.0000	243.2472
Total	0.1409	0.6031	1.0341	4.0500e-003	0.3281	3.5400e-003	0.3317	0.0880	3.3100e-003	0.0913	0.0000	375.4812	375.4812	0.0167	0.0000	375.8981

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3.3 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	0.1408	1.2883	1.3500	2.2200e-003		0.0667	0.0667		0.0628	0.0628	0.0000	191.1733	191.1733	0.0458	0.0000	192.3183
Total	0.1408	1.2883	1.3500	2.2200e-003		0.0667	0.0667		0.0628	0.0628	0.0000	191.1733	191.1733	0.0458	0.0000	192.3183

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	9.0700e-003	0.3101	0.0842	8.5000e-004	0.0225	8.0000e-004	0.0233	6.5000e-003	7.7000e-004	7.2700e-003	0.0000	82.9176	82.9176	6.4100e-003	0.0000	83.0777
Worker	0.0746	0.0464	0.5221	1.6400e-003	0.1849	1.2700e-003	0.1862	0.0491	1.1700e-003	0.0503	0.0000	148.0331	148.0331	3.5100e-003	0.0000	148.1210
Total	0.0837	0.3564	0.6063	2.4900e-003	0.2075	2.0700e-003	0.2095	0.0556	1.9400e-003	0.0576	0.0000	230.9507	230.9507	9.9200e-003	0.0000	231.1987

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3.3 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	0.1408	1.2883	1.3500	2.2200e-003		0.0667	0.0667		0.0628	0.0628	0.0000	191.1731	191.1731	0.0458	0.0000	192.3181
Total	0.1408	1.2883	1.3500	2.2200e-003		0.0667	0.0667		0.0628	0.0628	0.0000	191.1731	191.1731	0.0458	0.0000	192.3181

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	9.0700e-003	0.3101	0.0842	8.5000e-004	0.0225	8.0000e-004	0.0233	6.5000e-003	7.7000e-004	7.2700e-003	0.0000	82.9176	82.9176	6.4100e-003	0.0000	83.0777
Worker	0.0746	0.0464	0.5221	1.6400e-003	0.1849	1.2700e-003	0.1862	0.0491	1.1700e-003	0.0503	0.0000	148.0331	148.0331	3.5100e-003	0.0000	148.1210
Total	0.0837	0.3564	0.6063	2.4900e-003	0.2075	2.0700e-003	0.2095	0.0556	1.9400e-003	0.0576	0.0000	230.9507	230.9507	9.9200e-003	0.0000	231.1987

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3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.9000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9682	0.9682	2.0000e-005	0.0000	0.9687
Total	4.9000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9682	0.9682	2.0000e-005	0.0000	0.9687

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3.4 Paving - 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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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	4.9000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9682	0.9682	2.0000e-005	0.0000	0.9687
Total	4.9000e-004	3.0000e-004	3.4100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9682	0.9682	2.0000e-005	0.0000	0.9687

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3.5 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	1.9624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
Total	1.9686	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722

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	5.4700e-003	3.4000e-003	0.0382	1.2000e-004	0.0136	9.0000e-005	0.0136	3.6000e-003	9.0000e-005	3.6800e-003	0.0000	10.8435	10.8435	2.6000e-004	0.0000	10.8499
Total	5.4700e-003	3.4000e-003	0.0382	1.2000e-004	0.0136	9.0000e-005	0.0136	3.6000e-003	9.0000e-005	3.6800e-003	0.0000	10.8435	10.8435	2.6000e-004	0.0000	10.8499

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3.5 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	1.9624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1400e-003	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722
Total	1.9686	0.0423	0.0544	9.0000e-005		2.4500e-003	2.4500e-003		2.4500e-003	2.4500e-003	0.0000	7.6598	7.6598	5.0000e-004	0.0000	7.6722

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	5.4700e-003	3.4000e-003	0.0382	1.2000e-004	0.0136	9.0000e-005	0.0136	3.6000e-003	9.0000e-005	3.6800e-003	0.0000	10.8435	10.8435	2.6000e-004	0.0000	10.8499
Total	5.4700e-003	3.4000e-003	0.0382	1.2000e-004	0.0136	9.0000e-005	0.0136	3.6000e-003	9.0000e-005	3.6800e-003	0.0000	10.8435	10.8435	2.6000e-004	0.0000	10.8499

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	0.2705	1.2908	3.6119	0.0184	2.3618	9.5400e-003	2.3713	0.6315	8.8400e-003	0.6404	0.0000	1,708.7853	1,708.7853	0.0562	0.0000	1,710.1906
Unmitigated	0.2705	1.2908	3.6119	0.0184	2.3618	9.5400e-003	2.3713	0.6315	8.8400e-003	0.6404	0.0000	1,708.7853	1,708.7853	0.0562	0.0000	1,710.1906

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,316.00	2,316.00	1930.00	6,246,912	6,246,912
Total	2,316.00	2,316.00	1,930.00	6,246,912	6,246,912

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 Mid Rise	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.614615	0.038135	0.187437	0.095095	0.012061	0.005437	0.021104	0.018946	0.001223	0.001127	0.003608	0.000438	0.000774

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	471.9192	471.9192	0.0195	4.0300e-003	473.6075
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	488.9137	488.9137	0.0202	4.1800e-003	490.6628
NaturalGas Mitigated	0.0219	0.1875	0.0798	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.1227	217.1227	4.1600e-003	3.9800e-003	218.4130
NaturalGas Unmitigated	0.0238	0.2033	0.0865	1.3000e-003		0.0164	0.0164		0.0164	0.0164	0.0000	235.3877	235.3877	4.5100e-003	4.3200e-003	236.7865

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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 Mid Rise	4.411e+006	0.0238	0.2033	0.0865	1.3000e-003		0.0164	0.0164		0.0164	0.0164	0.0000	235.3877	235.3877	4.5100e-003	4.3200e-003	236.7865
Total		0.0238	0.2033	0.0865	1.3000e-003		0.0164	0.0164		0.0164	0.0164	0.0000	235.3877	235.3877	4.5100e-003	4.3200e-003	236.7865

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 Mid Rise	4.06873e+006	0.0219	0.1875	0.0798	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.1227	217.1227	4.1600e-003	3.9800e-003	218.4130
Total		0.0219	0.1875	0.0798	1.2000e-003		0.0152	0.0152		0.0152	0.0152	0.0000	217.1227	217.1227	4.1600e-003	3.9800e-003	218.4130

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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 Mid Rise	1.53447e+006	488.9137	0.0202	4.1800e-003	490.6628
Total		488.9137	0.0202	4.1800e-003	490.6628

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.48113e+006	471.9192	0.0195	4.0300e-003	473.6075
Total		471.9192	0.0195	4.0300e-003	473.6075

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	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931
Unmitigated	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931

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	0.1962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5075					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	0.0854	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931
Total	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931

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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	0.1962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5075					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	0.0854	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931
Total	1.7892	0.0330	2.8560	1.5000e-004		0.0159	0.0159		0.0159	0.0159	0.0000	4.6817	4.6817	4.4600e-003	0.0000	4.7931

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	145.9796	0.6614	0.0167	167.4820
Unmitigated	168.4432	0.8261	0.0207	195.2710

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	25.1495 / 15.8551	168.4432	0.8261	0.0207	195.2710
Total		168.4432	0.8261	0.0207	195.2710

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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 Mid Rise	20.1196 / 15.8551	145.9796	0.6614	0.0167	167.4820
Total		145.9796	0.6614	0.0167	167.4820

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	7.5691	0.4473	0.0000	18.7520
Unmitigated	36.0431	2.1301	0.0000	89.2952

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	177.56	36.0431	2.1301	0.0000	89.2952
Total		36.0431	2.1301	0.0000	89.2952

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	37.2876	7.5691	0.4473	0.0000	18.7520
Total		7.5691	0.4473	0.0000	18.7520

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

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