

Appendix E
Greenhouse Gas Data

119 S. Soto Avenue Project - Los Angeles-South Coast County, Annual

119 S. Soto Avenue Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	66.00	Dwelling Unit	0.43	73,789.00	189
Regional Shopping Center	2.50	1000sqft	0.06	2,500.00	0
High Turnover (Sit Down Restaurant)	2.50	1000sqft	0.06	2,500.00	0
Enclosed Parking with Elevator	57.00	Space	0.51	22,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Project Site is 1.06 ac.

Construction Phase - Estimated construction schedule.

Grading - Project Site is 1.06 ac.

Architectural Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Vehicle Trips - Per traffic study.

Area Coating - Consistent with SCAQMD Rule 1113 assumed VOC content of 50 grams per liter for architectural coatings.

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation - Project compliance with the LA Green Building Code results in a 20% reduction in both indoor and outdoor water use.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	200.00	418.00
tblConstructionPhase	NumDays	4.00	22.00
tblConstructionPhase	PhaseEndDate	12/9/2020	9/7/2021
tblConstructionPhase	PhaseEndDate	11/11/2020	9/7/2021
tblConstructionPhase	PhaseEndDate	2/5/2020	1/30/2020
tblConstructionPhase	PhaseStartDate	11/26/2020	7/8/2021
tblConstructionPhase	PhaseStartDate	2/6/2020	1/31/2020

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tblConstructionPhase	PhaseStartDate	1/31/2020	1/1/2020
tblGrading	AcresOfGrading	8.25	1.06
tblGrading	MaterialExported	0.00	12,908.00
tblLandUse	LandUseSquareFeet	66,000.00	73,789.00
tblLandUse	LotAcreage	1.74	0.43
tblVehicleTrips	ST_TR	6.39	4.03
tblVehicleTrips	ST_TR	158.37	76.00
tblVehicleTrips	ST_TR	49.97	16.00
tblVehicleTrips	SU_TR	5.86	4.03
tblVehicleTrips	SU_TR	131.84	76.00
tblVehicleTrips	SU_TR	25.24	16.00
tblVehicleTrips	WD_TR	6.65	4.03
tblVehicleTrips	WD_TR	127.15	76.00
tblVehicleTrips	WD_TR	42.70	16.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.8192	0.8192
2	4-1-2020	6-30-2020	0.6046	0.6046
3	7-1-2020	9-30-2020	0.6112	0.6112
4	10-1-2020	12-31-2020	0.6129	0.6129
5	1-1-2021	3-31-2021	0.5504	0.5504
6	4-1-2021	6-30-2021	0.5550	0.5550
7	7-1-2021	9-30-2021	0.7070	0.7070
		Highest	0.8192	0.8192

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	0.5475	0.0250	1.1025	1.1100e-003		0.0668	0.0668		0.0668	0.0668	7.0105	14.5850	21.5955	0.0220	4.8000e-004	22.2870
Energy	7.0400e-003	0.0619	0.0381	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	373.3516	373.3516	8.5100e-003	2.7600e-003	374.3871
Mobile	0.1459	0.7223	1.8141	6.0300e-003	0.4761	5.2000e-003	0.4813	0.1276	4.8600e-003	0.1325	0.0000	556.1875	556.1875	0.0307	0.0000	556.9553
Waste						0.0000	0.0000		0.0000	0.0000	12.7357	0.0000	12.7357	0.7527	0.0000	31.5520
Water						0.0000	0.0000		0.0000	0.0000	1.6637	55.8089	57.4727	0.1722	4.3100e-003	63.0613
Total	0.7005	0.8091	2.9547	7.5200e-003	0.4761	0.0768	0.5529	0.1276	0.0765	0.2041	21.4099	999.9330	1,021.3429	0.9861	7.5500e-003	1,048.2428

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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	0.3328	0.0202	0.6882	1.1000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	15.3775	15.3775	1.3500e-003	2.6000e-004	15.4893
Energy	7.0400e-003	0.0619	0.0381	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	369.4493	369.4493	8.4200e-003	2.7400e-003	370.4768
Mobile	0.1459	0.7223	1.8141	6.0300e-003	0.4761	5.2000e-003	0.4813	0.1276	4.8600e-003	0.1325	0.0000	556.1875	556.1875	0.0307	0.0000	556.9553
Waste						0.0000	0.0000		0.0000	0.0000	12.7357	0.0000	12.7357	0.7527	0.0000	31.5520
Water						0.0000	0.0000		0.0000	0.0000	1.3310	44.6472	45.9781	0.1378	3.4500e-003	50.4491
Total	0.4857	0.8043	2.5404	6.5200e-003	0.4761	0.0148	0.4909	0.1276	0.0145	0.1421	14.0666	985.6614	999.7280	0.9309	6.4500e-003	1,024.9225

	ROG	NOx	CO	SO2	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	30.66	0.59	14.02	13.30	0.00	80.71	11.22	0.00	81.07	30.38	34.30	1.43	2.12	5.59	14.57	2.22

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	1/30/2020	5	22	
2	Building Construction	Building Construction	1/31/2020	9/7/2021	5	418	
3	Architectural Coating	Architectural Coating	7/8/2021	9/7/2021	5	44	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.06

Acres of Paving: 0.51

Residential Indoor: 149,423; Residential Outdoor: 49,808; Non-Residential Indoor: 7,500; Non-Residential Outdoor: 2,500; Striped Parking Area: 1,368 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	8.00	0.00	1,614.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	59.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Water Exposed Area

3.2 Grading - 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					
Fugitive Dust					0.0510	0.0000	0.0510	0.0275	0.0000	0.0275	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1659	0.0710	1.5000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	13.6286	13.6286	4.4100e-003	0.0000	13.7387
Total	0.0149	0.1659	0.0710	1.5000e-004	0.0510	7.5300e-003	0.0585	0.0275	6.9300e-003	0.0344	0.0000	13.6286	13.6286	4.4100e-003	0.0000	13.7387

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	7.1200e-003	0.2397	0.0528	6.3000e-004	0.0139	7.5000e-004	0.0146	3.8100e-003	7.1000e-004	4.5200e-003	0.0000	62.2021	62.2021	4.3300e-003	0.0000	62.3104
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	4.1000e-004	3.3000e-004	3.6200e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8988	0.8988	3.0000e-005	0.0000	0.8995
Total	7.5300e-003	0.2400	0.0564	6.4000e-004	0.0148	7.6000e-004	0.0156	4.0700e-003	7.2000e-004	4.7800e-003	0.0000	63.1009	63.1009	4.3600e-003	0.0000	63.2099

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3.2 Grading - 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					
Fugitive Dust					0.0229	0.0000	0.0229	0.0124	0.0000	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1659	0.0710	1.5000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	13.6285	13.6285	4.4100e-003	0.0000	13.7387
Total	0.0149	0.1659	0.0710	1.5000e-004	0.0229	7.5300e-003	0.0305	0.0124	6.9300e-003	0.0193	0.0000	13.6285	13.6285	4.4100e-003	0.0000	13.7387

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	7.1200e-003	0.2397	0.0528	6.3000e-004	0.0139	7.5000e-004	0.0146	3.8100e-003	7.1000e-004	4.5200e-003	0.0000	62.2021	62.2021	4.3300e-003	0.0000	62.3104
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	4.1000e-004	3.3000e-004	3.6200e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8988	0.8988	3.0000e-005	0.0000	0.8995
Total	7.5300e-003	0.2400	0.0564	6.4000e-004	0.0148	7.6000e-004	0.0156	4.0700e-003	7.2000e-004	4.7800e-003	0.0000	63.1009	63.1009	4.3600e-003	0.0000	63.2099

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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	0.2437	1.7746	1.5826	2.6500e-003		0.0955	0.0955		0.0923	0.0923	0.0000	217.8506	217.8506	0.0404	0.0000	218.8616
Total	0.2437	1.7746	1.5826	2.6500e-003		0.0955	0.0955		0.0923	0.0923	0.0000	217.8506	217.8506	0.0404	0.0000	218.8616

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	5.2200e-003	0.1561	0.0422	3.7000e-004	9.0700e-003	7.3000e-004	9.8000e-003	2.6200e-003	6.9000e-004	3.3100e-003	0.0000	35.7734	35.7734	2.2700e-003	0.0000	35.8302
Worker	0.0327	0.0264	0.2914	8.0000e-004	0.0776	6.6000e-004	0.0782	0.0206	6.1000e-004	0.0212	0.0000	72.3116	72.3116	2.2800e-003	0.0000	72.3686
Total	0.0379	0.1824	0.3337	1.1700e-003	0.0867	1.3900e-003	0.0880	0.0232	1.3000e-003	0.0245	0.0000	108.0850	108.0850	4.5500e-003	0.0000	108.1988

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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	0.2437	1.7746	1.5826	2.6500e-003		0.0955	0.0955		0.0923	0.0923	0.0000	217.8503	217.8503	0.0404	0.0000	218.8613
Total	0.2437	1.7746	1.5826	2.6500e-003		0.0955	0.0955		0.0923	0.0923	0.0000	217.8503	217.8503	0.0404	0.0000	218.8613

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	5.2200e-003	0.1561	0.0422	3.7000e-004	9.0700e-003	7.3000e-004	9.8000e-003	2.6200e-003	6.9000e-004	3.3100e-003	0.0000	35.7734	35.7734	2.2700e-003	0.0000	35.8302
Worker	0.0327	0.0264	0.2914	8.0000e-004	0.0776	6.6000e-004	0.0782	0.0206	6.1000e-004	0.0212	0.0000	72.3116	72.3116	2.2800e-003	0.0000	72.3686
Total	0.0379	0.1824	0.3337	1.1700e-003	0.0867	1.3900e-003	0.0880	0.0232	1.3000e-003	0.0245	0.0000	108.0850	108.0850	4.5500e-003	0.0000	108.1988

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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	0.1613	1.2136	1.1480	1.9600e-003		0.0609	0.0609		0.0588	0.0588	0.0000	161.5774	161.5774	0.0289	0.0000	162.2985
Total	0.1613	1.2136	1.1480	1.9600e-003		0.0609	0.0609		0.0588	0.0588	0.0000	161.5774	161.5774	0.0289	0.0000	162.2985

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	3.3200e-003	0.1054	0.0286	2.7000e-004	6.7300e-003	2.1000e-004	6.9400e-003	1.9400e-003	2.1000e-004	2.1500e-003	0.0000	26.3258	26.3258	1.6100e-003	0.0000	26.3662
Worker	0.0226	0.0176	0.1986	5.7000e-004	0.0575	4.7000e-004	0.0580	0.0153	4.4000e-004	0.0157	0.0000	51.9280	51.9280	1.5300e-003	0.0000	51.9662
Total	0.0259	0.1230	0.2272	8.4000e-004	0.0643	6.8000e-004	0.0650	0.0172	6.5000e-004	0.0179	0.0000	78.2539	78.2539	3.1400e-003	0.0000	78.3324

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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1613	1.2136	1.1480	1.9600e-003		0.0609	0.0609		0.0588	0.0588	0.0000	161.5772	161.5772	0.0289	0.0000	162.2983
Total	0.1613	1.2136	1.1480	1.9600e-003		0.0609	0.0609		0.0588	0.0588	0.0000	161.5772	161.5772	0.0289	0.0000	162.2983

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	3.3200e-003	0.1054	0.0286	2.7000e-004	6.7300e-003	2.1000e-004	6.9400e-003	1.9400e-003	2.1000e-004	2.1500e-003	0.0000	26.3258	26.3258	1.6100e-003	0.0000	26.3662
Worker	0.0226	0.0176	0.1986	5.7000e-004	0.0575	4.7000e-004	0.0580	0.0153	4.4000e-004	0.0157	0.0000	51.9280	51.9280	1.5300e-003	0.0000	51.9662
Total	0.0259	0.1230	0.2272	8.4000e-004	0.0643	6.8000e-004	0.0650	0.0172	6.5000e-004	0.0179	0.0000	78.2539	78.2539	3.1400e-003	0.0000	78.3324

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3.4 Architectural Coating - 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					
Archit. Coating	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	0.2489	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268

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	1.1400e-003	8.8000e-004	9.9800e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6107	2.6107	8.0000e-005	0.0000	2.6127
Total	1.1400e-003	8.8000e-004	9.9800e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6107	2.6107	8.0000e-005	0.0000	2.6127

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3.4 Architectural Coating - 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					
Archit. Coating	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8200e-003	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268
Total	0.2489	0.0336	0.0400	7.0000e-005		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003	0.0000	5.6172	5.6172	3.9000e-004	0.0000	5.6268

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	1.1400e-003	8.8000e-004	9.9800e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6107	2.6107	8.0000e-005	0.0000	2.6127
Total	1.1400e-003	8.8000e-004	9.9800e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.6107	2.6107	8.0000e-005	0.0000	2.6127

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	0.1459	0.7223	1.8141	6.0300e-003	0.4761	5.2000e-003	0.4813	0.1276	4.8600e-003	0.1325	0.0000	556.1875	556.1875	0.0307	0.0000	556.9553
Unmitigated	0.1459	0.7223	1.8141	6.0300e-003	0.4761	5.2000e-003	0.4813	0.1276	4.8600e-003	0.1325	0.0000	556.1875	556.1875	0.0307	0.0000	556.9553

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	265.98	265.98	265.98	908,894	908,894
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	190.00	190.00	190.00	258,938	258,938
Regional Shopping Center	40.00	40.00	40.00	86,514	86,514
Total	495.98	495.98	495.98	1,254,346	1,254,346

4.3 Trip Type Information

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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	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Enclosed Parking with Elevator	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
High Turnover (Sit Down Restaurant)	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Regional Shopping Center	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	299.7796	299.7796	7.0800e-003	1.4600e-003	300.3932
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	303.6819	303.6819	7.1700e-003	1.4800e-003	304.3034
NaturalGas Mitigated	7.0400e-003	0.0619	0.0381	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	69.6697	69.6697	1.3400e-003	1.2800e-003	70.0837
NaturalGas Unmitigated	7.0400e-003	0.0619	0.0381	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	69.6697	69.6697	1.3400e-003	1.2800e-003	70.0837

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	724560	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.6653	38.6653	7.4000e-004	7.1000e-004	38.8950
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	576900	3.1100e-003	0.0283	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7856	30.7856	5.9000e-004	5.6000e-004	30.9685
Regional Shopping Center	4100	2.0000e-005	2.0000e-004	1.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2188	0.2188	0.0000	0.0000	0.2201
Total		7.0400e-003	0.0619	0.0381	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.6696	69.6696	1.3300e-003	1.2700e-003	70.0837

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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	tons/yr										MT/yr					
Apartments Mid Rise	724560	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.6653	38.6653	7.4000e-004	7.1000e-004	38.8950
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	576900	3.1100e-003	0.0283	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7856	30.7856	5.9000e-004	5.6000e-004	30.9685
Regional Shopping Center	4100	2.0000e-005	2.0000e-004	1.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2188	0.2188	0.0000	0.0000	0.2201
Total		7.0400e-003	0.0619	0.0381	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.6696	69.6696	1.3300e-003	1.2700e-003	70.0837

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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	267540	149.0093	3.5200e-003	7.3000e-004	149.3142
Enclosed Parking with Elevator	133608	74.4145	1.7600e-003	3.6000e-004	74.5668
High Turnover (Sit Down Restaurant)	110350	61.4607	1.4500e-003	3.0000e-004	61.5865
Regional Shopping Center	33750	18.7975	4.4000e-004	9.0000e-005	18.8359
Total		303.6819	7.1700e-003	1.4800e-003	304.3034

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	260533	145.1069	3.4300e-003	7.1000e-004	145.4039
Enclosed Parking with Elevator	133608	74.4145	1.7600e-003	3.6000e-004	74.5668
High Turnover (Sit Down Restaurant)	110350	61.4607	1.4500e-003	3.0000e-004	61.5865
Regional Shopping Center	33750	18.7975	4.4000e-004	9.0000e-005	18.8359
Total		299.7796	7.0800e-003	1.4600e-003	300.3931

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths

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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	0.3328	0.0202	0.6882	1.1000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	15.3775	15.3775	1.3500e-003	2.6000e-004	15.4893
Unmitigated	0.5475	0.0250	1.1025	1.1100e-003		0.0668	0.0668		0.0668	0.0668	7.0105	14.5850	21.5955	0.0220	4.8000e-004	22.2870

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	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2162	0.0171	0.4196	1.0700e-003		0.0630	0.0630		0.0630	0.0630	7.0105	13.4717	20.4822	0.0209	4.8000e-004	21.1466
Landscaping	0.0207	7.8800e-003	0.6829	4.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	1.1133	1.1133	1.0800e-003	0.0000	1.1404
Total	0.5475	0.0250	1.1025	1.1100e-003		0.0668	0.0668		0.0668	0.0668	7.0105	14.5850	21.5955	0.0220	4.8000e-004	22.2870

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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	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4400e-003	0.0123	5.2400e-003	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.2642	14.2642	2.7000e-004	2.6000e-004	14.3489
Landscaping	0.0207	7.8800e-003	0.6829	4.0000e-005		3.7600e-003	3.7600e-003		3.7600e-003	3.7600e-003	0.0000	1.1133	1.1133	1.0800e-003	0.0000	1.1404
Total	0.3328	0.0202	0.6882	1.2000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	15.3775	15.3775	1.3500e-003	2.6000e-004	15.4893

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	45.9781	0.1378	3.4500e-003	50.4491
Unmitigated	57.4727	0.1722	4.3100e-003	63.0613

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.30017 / 2.71097	49.3250	0.1413	3.5400e-003	53.9121
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0.758834 / 0.0484362	6.0437	0.0249	6.1000e-004	6.8477
Regional Shopping Center	0.185181 / 0.113498	2.1040	6.0800e-003	1.5000e-004	2.3015
Total		57.4727	0.1722	4.3000e-003	63.0613

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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	3.44013 / 2.16878	39.4600	0.1130	2.8300e-003	43.1297
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0.607067 / 0.038749	4.8349	0.0199	4.9000e-004	5.4782
Regional Shopping Center	0.148145 / 0.0907986	1.6832	4.8700e-003	1.2000e-004	1.8412
Total		45.9781	0.1378	3.4400e-003	50.4491

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.7357	0.7527	0.0000	31.5520
Unmitigated	12.7357	0.7527	0.0000	31.5520

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	30.36	6.1628	0.3642	0.0000	15.2681
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	29.75	6.0390	0.3569	0.0000	14.9613
Regional Shopping Center	2.63	0.5339	0.0316	0.0000	1.3226
Total		12.7357	0.7527	0.0000	31.5520

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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	30.36	6.1628	0.3642	0.0000	15.2681
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	29.75	6.0390	0.3569	0.0000	14.9613
Regional Shopping Center	2.63	0.5339	0.0316	0.0000	1.3226
Total		12.7357	0.7527	0.0000	31.5520

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

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Equipment Type	Number
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11.0 Vegetation
