

Appendix B – CalEEMod Model Outputs

333 W. San Fernando St. Adobe Office Project - Santa Clara County, Annual

**333 W. San Fernando St. Adobe Office Project
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	650.00	1000sqft	2.50	650,000.00	2210
Enclosed Parking with Elevator	1,382.00	Space	0.00	656,538.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	290	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - The CO2 intensity factor used is PG&E's current estimated intensity factor.

Land Use - Service population based on 3.4 employees/1000 sf of office space assumption

Lot acreage = size of project site

Vehicle Trips - 5720 weekday daily trips/(650,000 sf/1000) = 8.8 weekday trip rate

Energy Use -

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	552,800.00	656,538.00

tblLandUse	LotAcreage	14.92	2.50
tblLandUse	LotAcreage	12.44	0.00
tblLandUse	Population	0.00	2,210.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	WD_TR	11.03	8.80

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	0.4830	4.2961	3.2286	0.0106	0.4641	0.1274	0.5915	0.1307	0.1215	0.2522	0.0000	965.9756	965.9756	0.0762	0.0000	967.8799
2020	3.6585	1.1845	0.9532	3.2600e-003	0.1409	0.0323	0.1732	0.0383	0.0308	0.0691	0.0000	297.8827	297.8827	0.0224	0.0000	298.4421
Maximum	3.6585	4.2961	3.2286	0.0106	0.4641	0.1274	0.5915	0.1307	0.1215	0.2522	0.0000	965.9756	965.9756	0.0762	0.0000	967.8799

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	0.4830	4.2961	3.2286	0.0106	0.4641	0.1274	0.5915	0.1307	0.1215	0.2522	0.0000	965.9754	965.9754	0.0762	0.0000	967.8796
2020	3.6585	1.1845	0.9532	3.2600e-003	0.1409	0.0323	0.1732	0.0383	0.0308	0.0691	0.0000	297.8826	297.8826	0.0224	0.0000	298.4420
Maximum	3.6585	4.2961	3.2286	0.0106	0.4641	0.1274	0.5915	0.1307	0.1215	0.2522	0.0000	965.9754	965.9754	0.0762	0.0000	967.8796

	ROG	NOx	CO	SO2	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	4-1-2019	6-30-2019	1.3139	1.3139
2	7-1-2019	9-30-2019	1.7137	1.7137
3	10-1-2019	12-31-2019	1.7400	1.7400
4	1-1-2020	3-31-2020	2.5622	2.5622
5	4-1-2020	6-30-2020	2.2748	2.2748
		Highest	2.5622	2.5622

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	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387
Energy	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	2,598.4035	2,598.4035	0.2139	0.0524	2,619.3739
Mobile	1.1157	4.6968	13.1983	0.0437	3.9204	0.0378	3.9582	1.0494	0.0353	1.0848	0.0000	4,001.0518	4,001.0518	0.1388	0.0000	4,004.5216
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	36.6514	114.8281	151.4795	3.7759	0.0913	273.0739
Total	4.1084	5.2185	13.6552	0.0469	3.9204	0.0775	3.9979	1.0494	0.0751	1.1245	159.3594	6,714.3198	6,873.6792	11.3806	0.1437	7,201.0121

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	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387
Energy	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	2,598.4035	2,598.4035	0.2139	0.0524	2,619.3739
Mobile	0.8924	3.1489	7.5172	0.0199	1.6341	0.0185	1.6526	0.4374	0.0173	0.4547	0.0000	1,822.8724	1,822.8724	0.0796	0.0000	1,824.8618
Waste						0.0000	0.0000		0.0000	0.0000	122.7080	0.0000	122.7080	7.2518	0.0000	304.0040
Water						0.0000	0.0000		0.0000	0.0000	36.6514	114.8281	151.4795	3.7759	0.0913	273.0739
Total	3.8852	3.6707	7.9740	0.0230	1.6341	0.0582	1.6924	0.4374	0.0570	0.4944	159.3594	4,536.1403	4,695.4997	11.3214	0.1437	5,021.3523

	ROG	NOx	CO	SO2	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	5.43	29.66	41.60	50.83	58.32	24.89	57.67	58.32	24.06	56.03	0.00	32.44	31.69	0.52	0.00	30.27

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	4/26/2019	5	20	
2	Site Preparation	Site Preparation	4/27/2019	5/1/2019	5	3	
3	Grading	Grading	5/2/2019	5/9/2019	5	6	
4	Building Construction	Building Construction	5/10/2019	3/12/2020	5	220	
5	Paving	Paving	3/13/2020	3/26/2020	5	10	
6	Architectural Coating	Architectural Coating	3/27/2020	4/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 975,000; Non-Residential Outdoor: 325,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	23	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
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
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	484.00	214.00	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	97.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
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3.1 Mitigation Measures Construction

3.2 Demolition - 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	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
Total	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524

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	4.7000e-004	3.5000e-004	3.6300e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9127	0.9127	2.0000e-005	0.0000	0.9133
Total	4.7000e-004	3.5000e-004	3.6300e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9127	0.9127	2.0000e-005	0.0000	0.9133

Mitigated Construction On-Site

Off-Road	2.6300e-003	0.0323	0.0179	4.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281
Total	2.6300e-003	0.0323	0.0179	4.0000e-005	2.3900e-003	1.2800e-003	3.6700e-003	2.6000e-004	1.1800e-003	1.4400e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281

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	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0843	0.0843	0.0000	0.0000	0.0843
Total	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0843	0.0843	0.0000	0.0000	0.0843

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0323	0.0179	4.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281
Total	2.6300e-003	0.0323	0.0179	4.0000e-005	2.3900e-003	1.2800e-003	3.6700e-003	2.6000e-004	1.1800e-003	1.4400e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281

Mitigated Construction Off-Site

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	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2106	0.2106	1.0000e-005	0.0000	0.2108
Total	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2106	0.2106	1.0000e-005	0.0000	0.2108

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0682	0.0305	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993
Total	6.0900e-003	0.0682	0.0305	6.0000e-005	0.0197	3.2200e-003	0.0229	0.0101	2.9600e-003	0.0131	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993

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	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2106	0.2106	1.0000e-005	0.0000	0.2108
Total	1.1000e-004	8.0000e-005	8.4000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2106	0.2106	1.0000e-005	0.0000	0.2108

3.5 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	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1936	176.1936	0.0367	0.0000	177.1100
Total	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1936	176.1936	0.0367	0.0000	177.1100

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	0.0881	2.2700	0.6094	4.9400e-003	0.1183	0.0163	0.1346	0.0342	0.0156	0.0498	0.0000	472.8620	472.8620	0.0235	0.0000	473.4484
Worker	0.1477	0.1100	1.1358	3.1600e-003	0.3225	2.1300e-003	0.3246	0.0858	1.9600e-003	0.0877	0.0000	285.4390	285.4390	7.7700e-003	0.0000	285.6333
Total	0.2358	2.3799	1.7451	8.1000e-003	0.4407	0.0184	0.4591	0.1200	0.0176	0.1375	0.0000	758.3009	758.3009	0.0312	0.0000	759.0817

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	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1934	176.1934	0.0367	0.0000	177.1098

Total	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1934	176.1934	0.0367	0.0000	177.1098
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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	0.0881	2.2700	0.6094	4.9400e-003	0.1183	0.0163	0.1346	0.0342	0.0156	0.0498	0.0000	472.8620	472.8620	0.0235	0.0000	473.4484
Worker	0.1477	0.1100	1.1358	3.1600e-003	0.3225	2.1300e-003	0.3246	0.0858	1.9600e-003	0.0877	0.0000	285.4390	285.4390	7.7700e-003	0.0000	285.6333
Total	0.2358	2.3799	1.7451	8.1000e-003	0.4407	0.0184	0.4591	0.1200	0.0176	0.1375	0.0000	758.3009	758.3009	0.0312	0.0000	759.0817

3.5 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	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2615
Total	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2615

Unmitigated Construction Off-Site

Vendor	0.0221	0.6335	0.1687	1.5200e-003	0.0366	3.1400e-003	0.0397	0.0106	3.0000e-003	0.0136	0.0000	145.4668	145.4668	6.6700e-003	0.0000	145.6335
Worker	0.0418	0.0300	0.3149	9.5000e-004	0.0998	6.4000e-004	0.1005	0.0265	5.9000e-004	0.0271	0.0000	85.5900	85.5900	2.1000e-003	0.0000	85.6425
Total	0.0639	0.6636	0.4837	2.4700e-003	0.1364	3.7800e-003	0.1402	0.0371	3.5900e-003	0.0407	0.0000	231.0568	231.0568	8.7700e-003	0.0000	231.2760

3.6 Paving - 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	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143

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	2.5000e-004	1.8000e-004	1.8800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5101	0.5101	1.0000e-005	0.0000	0.5104
Total	2.5000e-004	1.8000e-004	1.8800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5101	0.5101	1.0000e-005	0.0000	0.5104

Mitigated Construction On-Site

Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	3.5275	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791

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	1.6100e-003	1.1600e-003	0.0121	4.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.2987	3.2987	8.0000e-005	0.0000	3.3008
Total	1.6100e-003	1.1600e-003	0.0121	4.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.2987	3.2987	8.0000e-005	0.0000	3.3008

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	3.5263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	3.5275	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791

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	1.6100e-003	1.1600e-003	0.0121	4.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.2987	3.2987	8.0000e-005	0.0000	3.3008
Total	1.6100e-003	1.1600e-003	0.0121	4.0000e-005	3.8500e-003	2.0000e-005	3.8700e-003	1.0200e-003	2.0000e-005	1.0500e-003	0.0000	3.2987	3.2987	8.0000e-005	0.0000	3.3008

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Limit Parking Supply

	ROG	NOx	CO	SO2	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	0.8924	3.1489	7.5172	0.0199	1.6341	0.0185	1.6526	0.4374	0.0173	0.4547	0.0000	1,822.8724	1,822.8724	0.0796	0.0000	1,824.8618
Unmitigated	1.1157	4.6968	13.1983	0.0437	3.9204	0.0378	3.9582	1.0494	0.0353	1.0848	0.0000	4,001.0518	4,001.0518	0.1388	0.0000	4,004.5216

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	5,720.00	1,599.00	682.50	10,542,736	4,394,551
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	5,720.00	1,599.00	682.50	10,542,736	4,394,551

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Enclosed Parking with Elevator	9.50	7.30	7.30	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
General Office Building	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,030.5859	2,030.5859	0.2031	0.0420	2,048.1820
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,030.5859	2,030.5859	0.2031	0.0420	2,048.1820

NaturalGas Mitigated	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919
NaturalGas Unmitigated	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919

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					
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
General Office Building	1.06405e+007	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919
Total		0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919

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					
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
General Office Building	1.06405e+007	0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919
Total		0.0574	0.5216	0.4381	3.1300e-003		0.0396	0.0396		0.0396	0.0396	0.0000	567.8176	567.8176	0.0109	0.0104	571.1919

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.84731e+006	506.0824	0.0506	0.0105	510.4679
General Office Building	1.15895e+007	1,524.5035	0.1525	0.0315	1,537.7142
Total		2,030.5859	0.2031	0.0420	2,048.1820

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	3.84731e+006	506.0824	0.0506	0.0105	510.4679
General Office Building	1.15895e+007	1,524.5035	0.1525	0.0315	1,537.7142
Total		2,030.5859	0.2031	0.0420	2,048.1820

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387

Unmitigated	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387
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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	0.3526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5810					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387
Total	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387

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	0.3526					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5810					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7500e-003	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387
Total	2.9354	1.7000e-004	0.0187	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.0363	0.0363	1.0000e-004	0.0000	0.0387

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	151.4795	3.7759	0.0913	273.0739
Unmitigated	151.4795	3.7759	0.0913	273.0739

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	115.527 / 70.8068	151.4795	3.7759	0.0913	273.0739
Total		151.4795	3.7759	0.0913	273.0739

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
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Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	115.527 / 70.8068	151.4795	3.7759	0.0913	273.0739
Total		151.4795	3.7759	0.0913	273.0739

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	122.7080	7.2518	0.0000	304.0040
Unmitigated	122.7080	7.2518	0.0000	304.0040

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	604.5	122.7080	7.2518	0.0000	304.0040

Total		122.7080	7.2518	0.0000	304.0040
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	604.5	122.7080	7.2518	0.0000	304.0040
Total		122.7080	7.2518	0.0000	304.0040

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
