

T12 2016
Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	588.00	1000sqft	1.50	588,000.00	0
Strip Mall	9.50	1000sqft	0.00	9,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5	Operational Year	2019		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	457	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjust PG&E CO2 factor to reflect 5-year rolling average published in 11/2015

Land Use - Adjust lot acreage to reflect project site.

Construction Phase - Adjust schedule to match applicant estimates.

Off-road Equipment - Adjust Equipment mix to reflect applicant provided data.

Off-road Equipment - Adjust equipment mix to reflect sponsor provided data.

Off-road Equipment - Adjust equipment mix to reflect sponsor provided data.

Off-road Equipment -

Off-road Equipment -

Grading - input acres disturbed based on lot size

Trips and VMT - Adjust worker and vendor trips to reflect sponsor provided data.

Architectural Coating - Per SCA 19v, applicant must use paint with VOC content less than current requirements. Adjusted interior to SCAQMD standard.

Vehicle Trips - TIS assumes retail trip gen internally captured. Adjusted office trip rates to match TIS.

Energy Use - Adjusted T24 energy to account for 2013 T24 improved efficiency.

Water And Wastewater - Assume all EBMUD WWTP treatment aerobic. No septic or lagoons.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	200.00	423.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	9/28/2018	9/30/2018
tblConstructionPhase	PhaseEndDate	7/13/2018	7/14/2018
tblConstructionPhase	PhaseEndDate	8/3/2018	8/4/2018
tblEnergyUse	T24E	5.01	3.76
tblEnergyUse	T24E	2.74	2.06
tblEnergyUse	T24NG	19.28	14.46
tblEnergyUse	T24NG	4.10	3.08
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	MaterialExported	0.00	25,000.00
tblLandUse	LotAcreage	13.50	1.50
tblLandUse	LotAcreage	0.22	0.00
tblOffRoadEquipment	HorsePower	84.00	150.00
tblOffRoadEquipment	HorsePower	226.00	800.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	HorsePower	97.00	500.00
tblOffRoadEquipment	HorsePower	97.00	500.00
tblOffRoadEquipment	HorsePower	97.00	500.00
tblOffRoadEquipment	HorsePower	400.00	375.00
tblOffRoadEquipment	HorsePower	62.00	350.00

tblOffRoadEquipment	HorsePower	226.00	800.00
tblOffRoadEquipment	HorsePower	400.00	375.00
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	457
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	98.00	40.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	5.00	16.00
tblTripsAndVMT	WorkerTripNumber	191.00	220.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	38.00	24.00
tblVehicleTrips	ST_TR	2.37	1.05

tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	0.98	0.44
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	11.01	4.89
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPerce: nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce: nt	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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					
2016	0.1354	1.6369	1.1238	3.0100e-003	0.0576	0.0453	0.1028	0.0153	0.0420	0.0574	0.0000	272.7440	272.7440	0.0383	0.0000	273.5488
2017	0.6383	6.8028	5.1305	0.0127	0.2932	0.2213	0.5145	0.0787	0.2074	0.2861	0.0000	1,102.2276	1,102.2276	0.2060	0.0000	1,106.5545
2018	2.3643	2.5831	2.6320	7.0600e-003	0.1633	0.0910	0.2543	0.0438	0.0858	0.1296	0.0000	600.3220	600.3220	0.1129	0.0000	602.6923
Total	3.1380	11.0227	8.8863	0.0228	0.5141	0.3575	0.8716	0.1379	0.3352	0.4731	0.0000	1,975.2936	1,975.2936	0.3572	0.0000	1,982.7957

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					
2016	0.1354	1.6369	1.1238	3.0100e-003	0.0576	0.0453	0.1028	0.0153	0.0420	0.0574	0.0000	272.7438	272.7438	0.0383	0.0000	273.5487
2017	0.6383	6.8028	5.1305	0.0127	0.2932	0.2213	0.5145	0.0787	0.2074	0.2861	0.0000	1,102.2267	1,102.2267	0.2060	0.0000	1,106.5536
2018	2.3643	2.5831	2.6320	7.0600e-003	0.1633	0.0910	0.2543	0.0438	0.0858	0.1296	0.0000	600.3215	600.3215	0.1129	0.0000	602.6918
Total	3.1380	11.0227	8.8863	0.0228	0.5141	0.3575	0.8716	0.1379	0.3352	0.4731	0.0000	1,975.2921	1,975.2921	0.3572	0.0000	1,982.7941

	ROG	NOx	CO	SO2	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

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	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113
Energy	0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	2,048.2963	2,048.2963	0.1084	0.0294	2,059.6954
Mobile	1.2362	3.6158	13.3579	0.0298	1.9481	0.0508	1.9989	0.5235	0.0468	0.5704	0.0000	2,196.7071	2,196.7071	0.0777	0.0000	2,198.3385
Waste						0.0000	0.0000		0.0000	0.0000	113.0274	0.0000	113.0274	6.6797	0.0000	253.3017
Water						0.0000	0.0000		0.0000	0.0000	37.2239	164.7953	202.0192	0.1386	0.0831	230.6945
Total	3.9310	4.0635	13.7395	0.0325	1.9481	0.0849	2.0329	0.5235	0.0809	0.6044	150.2513	4,409.8094	4,560.0607	7.0044	0.1125	4,742.0413

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	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113
Energy	0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	2,048.2963	2,048.2963	0.1084	0.0294	2,059.6954
Mobile	1.2362	3.6158	13.3579	0.0298	1.9481	0.0508	1.9989	0.5235	0.0468	0.5704	0.0000	2,196.7071	2,196.7071	0.0777	0.0000	2,198.3385
Waste						0.0000	0.0000		0.0000	0.0000	113.0274	0.0000	113.0274	6.6797	0.0000	253.3017
Water						0.0000	0.0000		0.0000	0.0000	29.7791	138.3393	168.1184	0.1107	0.0665	191.0463
Total	3.9310	4.0635	13.7395	0.0325	1.9481	0.0849	2.0329	0.5235	0.0809	0.6044	142.8065	4,383.3534	4,526.1599	6.9766	0.0959	4,702.3931

	ROG	NOx	CO	SO2	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	4.95	0.60	0.74	0.40	14.79	0.84

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2016	10/4/2016	5	2	
2	Grading	Grading	10/5/2016	11/29/2016	5	40	
3	Building Construction	Building Construction	11/30/2016	7/14/2018	5	423	
4	Paving	Paving	7/15/2018	8/4/2018	5	15	
5	Architectural Coating	Architectural Coating	8/5/2018	9/30/2018	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 896,250; Non-Residential Outdoor: 298,750 (Architectural Coating

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	6.00	9	0.56
Building Construction	Off-Highway Trucks	1	2.00	375	0.38
Building Construction	Generator Sets	1	10.00	150	0.74
Building Construction	Cranes	1	8.00	800	0.29
Building Construction	Forklifts	1	4.00	200	0.20
Site Preparation	Graders	0	8.00	174	0.41
Paving	Pavers	1	6.00	125	0.42
Paving	Rollers	1	7.00	80	0.38
Building Construction	Aerial Lifts	1	10.00	350	0.31
Grading	Rubber Tired Dozers	0	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Building Construction	Cranes	1	10.00	800	0.29
Grading	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Grading	Graders	0	6.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Rubber Tired Dozers	0	7.00	255	0.40
Building Construction	Welders	0	8.00	46	0.45
Building Construction	Off-Highway Trucks	1	1.00	375	0.38

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
Site Preparation	2	16.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	16.00	0.00	3,125.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	220.00	40.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	16.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	24.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2016

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8500e-003	0.0247	0.0117	3.0000e-005		8.6000e-004	8.6000e-004		7.9000e-004	7.9000e-004	0.0000	2.9912	2.9912	9.0000e-004	0.0000	3.0101
Total	1.8500e-003	0.0247	0.0117	3.0000e-005	0.0000	8.6000e-004	8.6000e-004	0.0000	7.9000e-004	7.9000e-004	0.0000	2.9912	2.9912	9.0000e-004	0.0000	3.0101

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	6.0000e-005	9.0000e-005	8.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	1.0000e-005	0.0000	0.1323
Total	6.0000e-005	9.0000e-005	8.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	1.0000e-005	0.0000	0.1323

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8500e-003	0.0247	0.0117	3.0000e-005		8.6000e-004	8.6000e-004		7.9000e-004	7.9000e-004	0.0000	2.9912	2.9912	9.0000e-004	0.0000	3.0101
Total	1.8500e-003	0.0247	0.0117	3.0000e-005	0.0000	8.6000e-004	8.6000e-004	0.0000	7.9000e-004	7.9000e-004	0.0000	2.9912	2.9912	9.0000e-004	0.0000	3.0101

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	6.0000e-005	9.0000e-005	8.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	1.0000e-005	0.0000	0.1323
Total	6.0000e-005	9.0000e-005	8.7000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1321	0.1321	1.0000e-005	0.0000	0.1323

3.3 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2100e-003	0.0000	2.2100e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.4942	0.2332	6.4000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	59.8239	59.8239	0.0181	0.0000	60.2029
Total	0.0371	0.4942	0.2332	6.4000e-004	2.2100e-003	0.0171	0.0193	3.0000e-004	0.0157	0.0160	0.0000	59.8239	59.8239	0.0181	0.0000	60.2029

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	0.0349	0.4688	0.3832	1.1800e-003	0.0264	6.1400e-003	0.0325	7.2500e-003	5.6400e-003	0.0129	0.0000	107.8224	107.8224	8.0000e-004	0.0000	107.8392
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	1.2200e-003	1.8100e-003	0.0175	3.0000e-005	2.9000e-003	2.0000e-005	2.9300e-003	7.7000e-004	2.0000e-005	8.0000e-004	0.0000	2.6420	2.6420	1.5000e-004	0.0000	2.6452
Total	0.0361	0.4706	0.4006	1.2100e-003	0.0293	6.1600e-003	0.0354	8.0200e-003	5.6600e-003	0.0137	0.0000	110.4644	110.4644	9.5000e-004	0.0000	110.4844

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					2.2100e-003	0.0000	2.2100e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.4942	0.2332	6.4000e-004		0.0171	0.0171		0.0157	0.0157	0.0000	59.8239	59.8239	0.0181	0.0000	60.2028
Total	0.0371	0.4942	0.2332	6.4000e-004	2.2100e-003	0.0171	0.0193	3.0000e-004	0.0157	0.0160	0.0000	59.8239	59.8239	0.0181	0.0000	60.2028

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	0.0349	0.4688	0.3832	1.1800e-003	0.0264	6.1400e-003	0.0325	7.2500e-003	5.6400e-003	0.0129	0.0000	107.8224	107.8224	8.0000e-004	0.0000	107.8392
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	1.2200e-003	1.8100e-003	0.0175	3.0000e-005	2.9000e-003	2.0000e-005	2.9300e-003	7.7000e-004	2.0000e-005	8.0000e-004	0.0000	2.6420	2.6420	1.5000e-004	0.0000	2.6452
Total	0.0361	0.4706	0.4006	1.2100e-003	0.0293	6.1600e-003	0.0354	8.0200e-003	5.6600e-003	0.0137	0.0000	110.4644	110.4644	9.5000e-004	0.0000	110.4844

3.4 Building Construction - 2016

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	0.0451	0.5864	0.2734	7.4000e-004		0.0203	0.0203		0.0190	0.0190	0.0000	68.4192	68.4192	0.0172	0.0000	68.7794

Total	0.0451	0.5864	0.2734	7.4000e-004		0.0203	0.0203		0.0190	0.0190	0.0000	68.4192	68.4192	0.0172	0.0000	68.7794
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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	5.5100e-003	0.0465	0.0659	1.1000e-004	2.9700e-003	7.0000e-004	3.6700e-003	8.5000e-004	6.4000e-004	1.5000e-003	0.0000	10.0246	10.0246	8.0000e-005	0.0000	10.0263
Worker	9.6800e-003	0.0143	0.1382	2.7000e-004	0.0230	2.0000e-004	0.0232	6.1100e-003	1.8000e-004	6.2900e-003	0.0000	20.8886	20.8886	1.1800e-003	0.0000	20.9134
Total	0.0152	0.0608	0.2041	3.8000e-004	0.0259	9.0000e-004	0.0268	6.9600e-003	8.2000e-004	7.7900e-003	0.0000	30.9132	30.9132	1.2600e-003	0.0000	30.9397

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	0.0451	0.5864	0.2734	7.4000e-004		0.0203	0.0203		0.0190	0.0190	0.0000	68.4191	68.4191	0.0172	0.0000	68.7794
Total	0.0451	0.5864	0.2734	7.4000e-004		0.0203	0.0203		0.0190	0.0190	0.0000	68.4191	68.4191	0.0172	0.0000	68.7794

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	5.5100e-003	0.0465	0.0659	1.1000e-004	2.9700e-003	7.0000e-004	3.6700e-003	8.5000e-004	6.4000e-004	1.5000e-003	0.0000	10.0246	10.0246	8.0000e-005	0.0000	10.0263
Worker	9.6800e-003	0.0143	0.1382	2.7000e-004	0.0230	2.0000e-004	0.0232	6.1100e-003	1.8000e-004	6.2900e-003	0.0000	20.8886	20.8886	1.1800e-003	0.0000	20.9134
Total	0.0152	0.0608	0.2041	3.8000e-004	0.0259	9.0000e-004	0.0268	6.9600e-003	8.2000e-004	7.7900e-003	0.0000	30.9132	30.9132	1.2600e-003	0.0000	30.9397

3.4 Building Construction - 2017

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	0.4830	6.1869	3.0275	8.3800e-003		0.2123	0.2123		0.1992	0.1992	0.0000	763.6728	763.6728	0.1930	0.0000	767.7252
Total	0.4830	6.1869	3.0275	8.3800e-003		0.2123	0.2123		0.1992	0.1992	0.0000	763.6728	763.6728	0.1930	0.0000	767.7252

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	0.0585	0.4711	0.7145	1.2500e-003	0.0336	6.8500e-003	0.0405	9.6600e-003	6.3000e-003	0.0160	0.0000	111.4173	111.4173	8.7000e-004	0.0000	111.4356
Worker	0.0969	0.1448	1.3886	3.1000e-003	0.2596	2.1100e-003	0.2617	0.0691	1.9400e-003	0.0710	0.0000	227.1375	227.1375	0.0122	0.0000	227.3938
Total	0.1553	0.6159	2.1030	4.3500e-003	0.2932	8.9600e-003	0.3022	0.0787	8.2400e-003	0.0870	0.0000	338.5548	338.5548	0.0131	0.0000	338.8293

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	0.4830	6.1869	3.0275	8.3800e-003		0.2123	0.2123		0.1992	0.1992	0.0000	763.6719	763.6719	0.1930	0.0000	767.7243
Total	0.4830	6.1869	3.0275	8.3800e-003		0.2123	0.2123		0.1992	0.1992	0.0000	763.6719	763.6719	0.1930	0.0000	767.7243

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	0.0585	0.4711	0.7145	1.2500e-003	0.0336	6.8500e-003	0.0405	9.6600e-003	6.3000e-003	0.0160	0.0000	111.4173	111.4173	8.7000e-004	0.0000	111.4356
Worker	0.0969	0.1448	1.3886	3.1000e-003	0.2596	2.1100e-003	0.2617	0.0691	1.9400e-003	0.0710	0.0000	227.1375	227.1375	0.0122	0.0000	227.3938
Total	0.1553	0.6159	2.1030	4.3500e-003	0.2932	8.9600e-003	0.3022	0.0787	8.2400e-003	0.0870	0.0000	338.5548	338.5548	0.0131	0.0000	338.8293

3.4 Building Construction - 2018

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	0.1960	2.1630	1.4672	4.5000e-003		0.0789	0.0789		0.0744	0.0744	0.0000	404.8786	404.8786	0.1029	0.0000	407.0396
Total	0.1960	2.1630	1.4672	4.5000e-003		0.0789	0.0789		0.0744	0.0744	0.0000	404.8786	404.8786	0.1029	0.0000	407.0396

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	0.0296	0.2298	0.3684	6.7000e-004	0.0181	3.4200e-003	0.0215	5.2000e-003	3.1400e-003	8.3400e-003	0.0000	58.9603	58.9603	4.6000e-004	0.0000	58.9700
Worker	0.0463	0.0701	0.6668	1.6700e-003	0.1398	1.1000e-003	0.1409	0.0372	1.0100e-003	0.0382	0.0000	117.7625	117.7625	6.0300e-003	0.0000	117.8892
Total	0.0759	0.2999	1.0352	2.3400e-003	0.1579	4.5200e-003	0.1624	0.0424	4.1500e-003	0.0465	0.0000	176.7228	176.7228	6.4900e-003	0.0000	176.8592

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	0.1960	2.1630	1.4672	4.5000e-003		0.0789	0.0789		0.0744	0.0744	0.0000	404.8781	404.8781	0.1029	0.0000	407.0391
Total	0.1960	2.1630	1.4672	4.5000e-003		0.0789	0.0789		0.0744	0.0744	0.0000	404.8781	404.8781	0.1029	0.0000	407.0391

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	0.0296	0.2298	0.3684	6.7000e-004	0.0181	3.4200e-003	0.0215	5.2000e-003	3.1400e-003	8.3400e-003	0.0000	58.9603	58.9603	4.6000e-004	0.0000	58.9700
Worker	0.0463	0.0701	0.6668	1.6700e-003	0.1398	1.1000e-003	0.1409	0.0372	1.0100e-003	0.0382	0.0000	117.7625	117.7625	6.0300e-003	0.0000	117.8892
Total	0.0759	0.2999	1.0352	2.3400e-003	0.1579	4.5200e-003	0.1624	0.0424	4.1500e-003	0.0465	0.0000	176.7228	176.7228	6.4900e-003	0.0000	176.8592

3.5 Paving - 2018

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	7.5400e-003	0.0773	0.0665	1.0000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	9.0259	9.0259	2.7600e-003	0.0000	9.0838

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.5400e-003	0.0773	0.0665	1.0000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	9.0259	9.0259	2.7600e-003	0.0000	9.0838

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	3.6000e-004	5.5000e-004	5.2000e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9176	0.9176	5.0000e-005	0.0000	0.9186
Total	3.6000e-004	5.5000e-004	5.2000e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9176	0.9176	5.0000e-005	0.0000	0.9186

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	7.5400e-003	0.0773	0.0665	1.0000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	9.0259	9.0259	2.7600e-003	0.0000	9.0837
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.5400e-003	0.0773	0.0665	1.0000e-004		4.5200e-003	4.5200e-003		4.1600e-003	4.1600e-003	0.0000	9.0259	9.0259	2.7600e-003	0.0000	9.0837

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	3.6000e-004	5.5000e-004	5.2000e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9176	0.9176	5.0000e-005	0.0000	0.9186
Total	3.6000e-004	5.5000e-004	5.2000e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9176	0.9176	5.0000e-005	0.0000	0.9186

3.6 Architectural Coating - 2018

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	2.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9700e-003	0.0401	0.0371	6.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	5.1065	5.1065	4.9000e-004	0.0000	5.1167
Total	2.0830	0.0401	0.0371	6.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	5.1065	5.1065	4.9000e-004	0.0000	5.1167

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	1.4400e-003	2.1900e-003	0.0208	5.0000e-005	4.3600e-003	3.0000e-005	4.3900e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.6705	3.6705	1.9000e-004	0.0000	3.6745
Total	1.4400e-003	2.1900e-003	0.0208	5.0000e-005	4.3600e-003	3.0000e-005	4.3900e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.6705	3.6705	1.9000e-004	0.0000	3.6745

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	2.0771					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9700e-003	0.0401	0.0371	6.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	5.1065	5.1065	4.9000e-004	0.0000	5.1167
Total	2.0830	0.0401	0.0371	6.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	5.1065	5.1065	4.9000e-004	0.0000	5.1167

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	1.4400e-003	2.1900e-003	0.0208	5.0000e-005	4.3600e-003	3.0000e-005	4.3900e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.6705	3.6705	1.9000e-004	0.0000	3.6745
Total	1.4400e-003	2.1900e-003	0.0208	5.0000e-005	4.3600e-003	3.0000e-005	4.3900e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.6705	3.6705	1.9000e-004	0.0000	3.6745

4.0 Operational Detail - Mobile

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	1.2362	3.6158	13.3579	0.0298	1.9481	0.0508	1.9989	0.5235	0.0468	0.5704	0.0000	2,196.7071	2,196.7071	0.0777	0.0000	2,198.3385
Unmitigated	1.2362	3.6158	13.3579	0.0298	1.9481	0.0508	1.9989	0.5235	0.0468	0.5704	0.0000	2,196.7071	2,196.7071	0.0777	0.0000	2,198.3385

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	2,875.91	617.40	258.72	5,208,180	5,208,180
Strip Mall	0.00	0.00	0.00		
Total	2,875.91	617.40	258.72	5,208,180	5,208,180

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.542590	0.062129	0.167184	0.110637	0.030730	0.004573	0.019109	0.050292	0.001784	0.003671	0.005678	0.000201	0.001421

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,560.9636	1,560.9636	0.0991	0.0205	1,569.3969
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,560.9636	1,560.9636	0.0991	0.0205	1,569.3969
NaturalGas Mitigated	0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	487.3327	487.3327	9.3400e-003	8.9300e-003	490.2985
NaturalGas Unmitigated	0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	487.3327	487.3327	9.3400e-003	8.9300e-003	490.2985

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					
Strip Mall	35910	1.9000e-004	1.7600e-003	1.4800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9163	1.9163	4.0000e-005	4.0000e-005	1.9280
General Office Building	9.09636e+006	0.0491	0.4459	0.3746	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.4164	485.4164	9.3000e-003	8.9000e-003	488.3706
Total		0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	487.3327	487.3327	9.3400e-003	8.9400e-003	490.2985

Mitigated

	Natural Gas 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					
General Office Building	9.09636e+006	0.0491	0.4459	0.3746	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.4164	485.4164	9.3000e-003	8.9000e-003	488.3706
Strip Mall	35910	1.9000e-004	1.7600e-003	1.4800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9163	1.9163	4.0000e-005	4.0000e-005	1.9280
Total		0.0492	0.4477	0.3760	2.6900e-003		0.0340	0.0340		0.0340	0.0340	0.0000	487.3327	487.3327	9.3400e-003	8.9400e-003	490.2985

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	7.42644e+006	1,539.4395	0.0977	0.0202	1,547.7565
Strip Mall	103835	21.5241	1.3700e-003	2.8000e-004	21.6404
Total		1,560.9636	0.0991	0.0205	1,569.3969

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

General Office Building	7.42644e+006	1,539.4395	0.0977	0.0202	1,547.7565
Strip Mall	103835	21.5241	1.3700e-003	2.8000e-004	21.6404
Total		1,560.9636	0.0991	0.0205	1,569.3969

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	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113
Unmitigated	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113

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	0.3116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.3000e-004	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113

Total	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113
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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	0.3116					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.3000e-004	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113
Total	2.6456	5.0000e-005	5.5400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0107	0.0107	3.0000e-005	0.0000	0.0113

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
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	168.1184	0.1107	0.0665	191.0463

Unmitigated	202.0192	0.1386	0.0831	230.6945
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	104.507 / 64.0529	200.6680	0.1377	0.0826	229.1515
Strip Mail	0.703689 / 0.431293	1.3512	9.3000e-004	5.6000e-004	1.5430
Total		202.0192	0.1386	0.0831	230.6945

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	83.606 / 60.1457	166.9940	0.1100	0.0660	189.7685
Strip Mail	0.562951 / 0.404984	1.1244	7.4000e-004	4.4000e-004	1.2778
Total		168.1184	0.1107	0.0665	191.0463

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	113.0274	6.6797	0.0000	253.3017
Unmitigated	113.0274	6.6797	0.0000	253.3017

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	546.84	111.0036	6.5601	0.0000	248.7662
Strip Mall	9.97	2.0238	0.1196	0.0000	4.5355
Total		113.0274	6.6797	0.0000	253.3017

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

General Office Building	546.84	111.0036	6.5601	0.0000	248.7662
Strip Mall	9.97	2.0238	0.1196	0.0000	4.5355
Total		113.0274	6.6797	0.0000	253.3017

9.0 Operational Offroad

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	588.00	1000sqft	1.50	588,000.00	0
Strip Mall	9.50	1000sqft	0.00	9,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2005
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	489	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjust PG&E CO2 factor to reflect 2005 base year published in 11/2015

Land Use - Adjust lot acreage to reflect project site.

Construction Phase - Adjust schedule to match applicant estimates.

Off-road Equipment -

Off-road Equipment - Adjust equipment mix to reflect sponsor provided data.

Off-road Equipment - Adjust equipment mix to reflect sponsor provided data.

Off-road Equipment -

Off-road Equipment - Adjust Equipment mix to reflect applicant provided data.

Trips and VMT - Adjust worker and vendor trips to reflect sponsor provided data.

Grading - input acres disturbed based on lot size, as model defaulted to zero.

Architectural Coating -

Vehicle Trips - TIS assumes retail trip gen internally captured. Adjusted office trip rates to match TIS.

Energy Use - All energy values default.

Water And Wastewater - Assume all EBMUD WWTP treatment aerobic. No septic or lagoons.

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstructionPhase	NumDays	10.00	41.00
tblConstructionPhase	NumDays	200.00	423.00
tblConstructionPhase	NumDays	4.00	40.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	2.00	4.00
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	MaterialExported	0.00	25,000.00
tblLandUse	LotAcreage	13.50	1.50
tblLandUse	LotAcreage	0.22	0.00
tblOffRoadEquipment	HorsePower	226.00	800.00
tblOffRoadEquipment	HorsePower	226.00	800.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	HorsePower	84.00	150.00
tblOffRoadEquipment	HorsePower	97.00	500.00
tblOffRoadEquipment	HorsePower	97.00	500.00
tblOffRoadEquipment	HorsePower	97.00	500.00

tblOffRoadEquipment	HorsePower	62.00	350.00
tblOffRoadEquipment	HorsePower	400.00	375.00
tblOffRoadEquipment	HorsePower	400.00	375.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	489
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	2.37	1.05
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	0.98	0.44
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	11.01	4.89

tblVehicleTrips	WD_TR	44.32	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPerce: nt	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPerce: nt	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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					
2002	0.4659	4.2174	2.8560	0.0297	0.0515	0.1914	0.2429	0.0171	0.1914	0.2085	0.0000	309.9974	309.9974	0.0325	0.0000	310.6802
2003	2.3793	18.2912	16.5621	0.1246	0.2777	0.7444	1.0222	0.0857	0.7444	0.8301	0.0000	1,432.5743	1,432.5743	0.1899	0.0000	1,436.5632
2004	8.2670	10.1483	9.2804	0.0688	0.1563	0.4219	0.5782	0.0481	0.4219	0.4700	0.0000	793.5873	793.5873	0.1077	0.0000	795.8487
Total	11.1121	32.6570	28.6985	0.2231	0.4855	1.3578	1.8433	0.1509	1.3578	1.5086	0.0000	2,536.1590	2,536.1590	0.3301	0.0000	2,543.0920

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					

2002	0.4659	4.2174	2.8560	0.0297	0.0515	0.1914	0.2429	0.0171	0.1914	0.2085	0.0000	309.9972	309.9972	0.0325	0.0000	310.6800
2003	2.3793	18.2912	16.5621	0.1246	0.2777	0.7444	1.0222	0.0857	0.7444	0.8301	0.0000	1,432.5733	1,432.5733	0.1899	0.0000	1,436.5621
2004	8.2670	10.1483	9.2804	0.0688	0.1563	0.4219	0.5782	0.0481	0.4219	0.4700	0.0000	793.5867	793.5867	0.1077	0.0000	795.8481
Total	11.1121	32.6570	28.6985	0.2231	0.4855	1.3578	1.8433	0.1509	1.3578	1.5086	0.0000	2,536.1573	2,536.1573	0.3301	0.0000	2,543.0902

	ROG	NOx	CO	SO2	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

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	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117
Energy	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	2,473.8174	2,473.8174	0.1211	0.0342	2,486.9704
Mobile	3.9191	10.6391	40.4736	0.0811	1.7574	0.2975	2.0549	0.5147	0.2975	0.8123	0.0000	2,771.5180	2,771.5180	0.2704	0.0000	2,777.1965
Waste						0.0000	0.0000		0.0000	0.0000	113.0274	0.0000	113.0274	6.6797	0.0000	253.3017
Water						0.0000	0.0000		0.0000	0.0000	37.2239	176.3346	213.5585	0.1386	0.0831	242.2337
Total	6.9413	11.2263	40.9737	0.0846	1.7574	0.3422	2.0995	0.5147	0.3422	0.8569	150.2513	5,421.6806	5,571.9319	7.2098	0.1173	5,759.7141

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	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117
Energy	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	2,473.8174	2,473.8174	0.1211	0.0342	2,486.9704
Mobile	3.9191	10.6391	40.4736	0.0811	1.7574	0.2975	2.0549	0.5147	0.2975	0.8123	0.0000	2,771.5180	2,771.5180	0.2704	0.0000	2,777.1965
Waste						0.0000	0.0000		0.0000	0.0000	113.0274	0.0000	113.0274	6.6797	0.0000	253.3017
Water						0.0000	0.0000		0.0000	0.0000	29.7791	148.0261	177.8052	0.1107	0.0665	200.7330
Total	6.9413	11.2263	40.9737	0.0846	1.7574	0.3422	2.0995	0.5147	0.3422	0.8569	142.8065	5,393.3721	5,536.1786	7.1820	0.1007	5,718.2134

	ROG	NOx	CO	SO2	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	4.95	0.52	0.64	0.39	14.19	0.72

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2002	10/4/2002	5	4	
2	Grading	Grading	10/5/2002	11/29/2002	5	40	
3	Building Construction	Building Construction	11/30/2002	7/14/2004	5	423	
4	Paving	Paving	7/15/2004	8/4/2004	5	15	
5	Architectural Coating	Architectural Coating	8/5/2004	9/30/2004	5	41	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 896,250; Non-Residential Outdoor: 298,750 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	174	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Grading	Graders	0	6.00	174	0.41
Grading	Rubber Tired Dozers	0	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Building Construction	Aerial Lifts	1	10.00	350	0.31
Building Construction	Cranes	1	8.00	800	0.29
Building Construction	Cranes	1	10.00	800	0.29
Building Construction	Forklifts	1	4.00	200	0.20
Building Construction	Generator Sets	1	10.00	150	0.74
Building Construction	Off-Highway Trucks	1	2.00	375	0.38
Building Construction	Off-Highway Trucks	1	1.00	375	0.38
Building Construction	Tractors/Loaders/Backhoes	2	8.00	500	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Site Preparation	2	5.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	5.00	0.00	3,125.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Building Construction	9	191.00	98.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	38.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2002

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					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1074	0.0474	7.4000e-004		4.4200e-003	4.4200e-003		4.4200e-003	4.4200e-003	0.0000	6.7287	6.7287	9.1000e-004	0.0000	6.7478
Total	0.0113	0.1074	0.0474	7.4000e-004	8.0000e-004	4.4200e-003	5.2200e-003	9.0000e-005	4.4200e-003	4.5100e-003	0.0000	6.7287	6.7287	9.1000e-004	0.0000	6.7478

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	2.1000e-004	3.3000e-004	3.0200e-003	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1087	0.1087	2.0000e-005	0.0000	0.1091
Total	2.1000e-004	3.3000e-004	3.0200e-003	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1087	0.1087	2.0000e-005	0.0000	0.1091

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					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0113	0.1074	0.0474	7.4000e-004		4.4200e-003	4.4200e-003		4.4200e-003	4.4200e-003	0.0000	6.7287	6.7287	9.1000e-004	0.0000	6.7478
Total	0.0113	0.1074	0.0474	7.4000e-004	8.0000e-004	4.4200e-003	5.2200e-003	9.0000e-005	4.4200e-003	4.5100e-003	0.0000	6.7287	6.7287	9.1000e-004	0.0000	6.7478

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	2.1000e-004	3.3000e-004	3.0200e-003	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1087	0.1087	2.0000e-005	0.0000	0.1091
Total	2.1000e-004	3.3000e-004	3.0200e-003	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.1087	0.1087	2.0000e-005	0.0000	0.1091

3.3 Grading - 2002

Unmitigated Construction On-Site

Off-Road	0.1126	1.0735	0.4736	7.4400e-003		0.0442	0.0442		0.0442	0.0442	0.0000	67.2865	67.2865	9.1200e-003	0.0000	67.4780
Total	0.1126	1.0735	0.4736	7.4400e-003	2.2100e-003	0.0442	0.0465	3.0000e-004	0.0442	0.0445	0.0000	67.2865	67.2865	9.1200e-003	0.0000	67.4780

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	0.1391	1.4911	0.9057	0.0110	0.0241	0.0800	0.1041	9.2000e-003	0.0800	0.0892	0.0000	114.0332	114.0332	6.2400e-003	0.0000	114.1643
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	2.1500e-003	3.3300e-003	0.0302	2.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.5000e-004	4.0000e-005	2.9000e-004	0.0000	1.0869	1.0869	2.1000e-004	0.0000	1.0913
Total	0.1412	1.4945	0.9359	0.0110	0.0250	0.0800	0.1050	9.4500e-003	0.0800	0.0895	0.0000	115.1201	115.1201	6.4500e-003	0.0000	115.2556

3.4 Building Construction - 2002

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	0.1245	1.1601	0.5081	7.6500e-003		0.0487	0.0487		0.0487	0.0487	0.0000	71.7440	71.7440	0.0101	0.0000	71.9557
Total	0.1245	1.1601	0.5081	7.6500e-003		0.0487	0.0487		0.0487	0.0487	0.0000	71.7440	71.7440	0.0101	0.0000	71.9557

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	0.0310	0.3117	0.2528	2.4700e-003	5.7400e-003	0.0132	0.0190	1.9900e-003	0.0132	0.0152	0.0000	26.1745	26.1745	1.4800e-003	0.0000	26.2056
Worker	0.0451	0.0701	0.6352	3.8000e-004	0.0177	8.4000e-004	0.0185	5.2300e-003	8.4000e-004	6.0700e-003	0.0000	22.8348	22.8348	4.4500e-003	0.0000	22.9283
Total	0.0761	0.3817	0.8880	2.8500e-003	0.0234	0.0141	0.0375	7.2200e-003	0.0141	0.0213	0.0000	49.0094	49.0094	5.9300e-003	0.0000	49.1339

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	0.1245	1.1601	0.5081	7.6500e-003		0.0487	0.0487		0.0487	0.0487	0.0000	71.7440	71.7440	0.0101	0.0000	71.9556
Total	0.1245	1.1601	0.5081	7.6500e-003		0.0487	0.0487		0.0487	0.0487	0.0000	71.7440	71.7440	0.0101	0.0000	71.9556

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	0.0310	0.3117	0.2528	2.4700e-003	5.7400e-003	0.0132	0.0190	1.9900e-003	0.0132	0.0152	0.0000	26.1745	26.1745	1.4800e-003	0.0000	26.2056
Worker	0.0451	0.0701	0.6352	3.8000e-004	0.0177	8.4000e-004	0.0185	5.2300e-003	8.4000e-004	6.0700e-003	0.0000	22.8348	22.8348	4.4500e-003	0.0000	22.9283
Total	0.0761	0.3817	0.8880	2.8500e-003	0.0234	0.0141	0.0375	7.2200e-003	0.0141	0.0213	0.0000	49.0094	49.0094	5.9300e-003	0.0000	49.1339

3.4 Building Construction - 2003

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	1.4765	13.7624	6.0277	0.0908		0.5775	0.5775		0.5775	0.5775	0.0000	851.1452	851.1452	0.1196	0.0000	853.6563
Total	1.4765	13.7624	6.0277	0.0908		0.5775	0.5775		0.5775	0.5775	0.0000	851.1452	851.1452	0.1196	0.0000	853.6563

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	0.3679	3.6977	2.9988	0.0293	0.0682	0.1570	0.2251	0.0236	0.1570	0.1805	0.0000	310.5251	310.5251	0.0176	0.0000	310.8937
Worker	0.5348	0.8311	7.5355	4.5600e-003	0.2096	9.9500e-003	0.2195	0.0621	9.9500e-003	0.0720	0.0000	270.9041	270.9041	0.0528	0.0000	272.0131
Total	0.9027	4.5288	10.5344	0.0338	0.2777	0.1669	0.4446	0.0857	0.1669	0.2526	0.0000	581.4292	581.4292	0.0704	0.0000	582.9069

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	1.4765	13.7624	6.0277	0.0908		0.5775	0.5775		0.5775	0.5775	0.0000	851.1441	851.1441	0.1196	0.0000	853.6553
Total	1.4765	13.7624	6.0277	0.0908		0.5775	0.5775		0.5775	0.5775	0.0000	851.1441	851.1441	0.1196	0.0000	853.6553

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	0.3679	3.6977	2.9988	0.0293	0.0682	0.1570	0.2251	0.0236	0.1570	0.1805	0.0000	310.5251	310.5251	0.0176	0.0000	310.8937
Worker	0.5348	0.8311	7.5355	4.5600e-003	0.2096	9.9500e-003	0.2195	0.0621	9.9500e-003	0.0720	0.0000	270.9041	270.9041	0.0528	0.0000	272.0131
Total	0.9027	4.5288	10.5344	0.0338	0.2777	0.1669	0.4446	0.0857	0.1669	0.2526	0.0000	581.4292	581.4292	0.0704	0.0000	582.9069

3.4 Building Construction - 2004

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	0.7920	7.3821	3.2332	0.0487		0.3098	0.3098		0.3098	0.3098	0.0000	456.5530	456.5530	0.0641	0.0000	457.8999
Total	0.7920	7.3821	3.2332	0.0487		0.3098	0.3098		0.3098	0.3098	0.0000	456.5530	456.5530	0.0641	0.0000	457.8999

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	0.1974	1.9835	1.6086	0.0157	0.0366	0.0842	0.1207	0.0127	0.0842	0.0968	0.0000	166.5652	166.5652	9.4200e-003	0.0000	166.7629
Worker	0.2869	0.4458	4.0421	2.4500e-003	0.1124	5.3400e-003	0.1178	0.0333	5.3400e-003	0.0386	0.0000	145.3126	145.3126	0.0283	0.0000	145.9074
Total	0.4842	2.4293	5.6506	0.0182	0.1490	0.0895	0.2385	0.0459	0.0895	0.1355	0.0000	311.8777	311.8777	0.0378	0.0000	312.6703

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	0.7920	7.3821	3.2332	0.0487		0.3098	0.3098		0.3098	0.3098	0.0000	456.5524	456.5524	0.0641	0.0000	457.8994

Total	0.7920	7.3821	3.2332	0.0487		0.3098	0.3098		0.3098	0.3098	0.0000	456.5524	456.5524	0.0641	0.0000	457.8994
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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	0.1974	1.9835	1.6086	0.0157	0.0366	0.0842	0.1207	0.0127	0.0842	0.0968	0.0000	166.5652	166.5652	9.4200e-003	0.0000	166.7629
Worker	0.2869	0.4458	4.0421	2.4500e-003	0.1124	5.3400e-003	0.1178	0.0333	5.3400e-003	0.0386	0.0000	145.3126	145.3126	0.0283	0.0000	145.9074
Total	0.4842	2.4293	5.6506	0.0182	0.1490	0.0895	0.2385	0.0459	0.0895	0.1355	0.0000	311.8777	311.8777	0.0378	0.0000	312.6703

3.5 Paving - 2004

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	0.0304	0.2034	0.0855	1.1900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	10.3961	10.3961	2.4800e-003	0.0000	10.4482
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0304	0.2034	0.0855	1.1900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	10.3961	10.3961	2.4800e-003	0.0000	10.4482

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	2.0900e-003	3.2500e-003	0.0295	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.4000e-004	4.0000e-005	2.8000e-004	0.0000	1.0597	1.0597	2.1000e-004	0.0000	1.0640
Total	2.0900e-003	3.2500e-003	0.0295	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.4000e-004	4.0000e-005	2.8000e-004	0.0000	1.0597	1.0597	2.1000e-004	0.0000	1.0640

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	0.0304	0.2034	0.0855	1.1900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	10.3961	10.3961	2.4800e-003	0.0000	10.4482
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0304	0.2034	0.0855	1.1900e-003		0.0138	0.0138		0.0138	0.0138	0.0000	10.3961	10.3961	2.4800e-003	0.0000	10.4482

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	2.0900e-003	3.2500e-003	0.0295	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.4000e-004	4.0000e-005	2.8000e-004	0.0000	1.0597	1.0597	2.1000e-004	0.0000	1.0640
Total	2.0900e-003	3.2500e-003	0.0295	2.0000e-005	8.2000e-004	4.0000e-005	8.6000e-004	2.4000e-004	4.0000e-005	2.8000e-004	0.0000	1.0597	1.0597	2.1000e-004	0.0000	1.0640

3.6 Architectural Coating - 2004

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	6.9235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1043	0.0461	6.1000e-004		8.4800e-003	8.4800e-003		8.4800e-003	8.4800e-003	0.0000	5.2342	5.2342	1.4600e-003	0.0000	5.2649
Total	6.9415	0.1043	0.0461	6.1000e-004		8.4800e-003	8.4800e-003		8.4800e-003	8.4800e-003	0.0000	5.2342	5.2342	1.4600e-003	0.0000	5.2649

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	0.0167	0.0260	0.2355	1.4000e-004	6.5500e-003	3.1000e-004	6.8600e-003	1.9400e-003	3.1000e-004	2.2500e-003	0.0000	8.4666	8.4666	1.6500e-003	0.0000	8.5013
Total	0.0167	0.0260	0.2355	1.4000e-004	6.5500e-003	3.1000e-004	6.8600e-003	1.9400e-003	3.1000e-004	2.2500e-003	0.0000	8.4666	8.4666	1.6500e-003	0.0000	8.5013

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	6.9235					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1043	0.0461	6.1000e-004		8.4800e-003	8.4800e-003		8.4800e-003	8.4800e-003	0.0000	5.2342	5.2342	1.4600e-003	0.0000	5.2649
Total	6.9415	0.1043	0.0461	6.1000e-004		8.4800e-003	8.4800e-003		8.4800e-003	8.4800e-003	0.0000	5.2342	5.2342	1.4600e-003	0.0000	5.2649

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0167	0.0260	0.2355	1.4000e-004	6.5500e-003	3.1000e-004	6.8600e-003	1.9400e-003	3.1000e-004	2.2500e-003	0.0000	8.4666	8.4666	1.6500e-003	0.0000	8.5013
Total	0.0167	0.0260	0.2355	1.4000e-004	6.5500e-003	3.1000e-004	6.8600e-003	1.9400e-003	3.1000e-004	2.2500e-003	0.0000	8.4666	8.4666	1.6500e-003	0.0000	8.5013

4.0 Operational Detail - Mobile

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	3.9191	10.6391	40.4736	0.0811	1.7574	0.2975	2.0549	0.5147	0.2975	0.8123	0.0000	2,771.5180	2,771.5180	0.2704	0.0000	2,777.1965
Unmitigated	3.9191	10.6391	40.4736	0.0811	1.7574	0.2975	2.0549	0.5147	0.2975	0.8123	0.0000	2,771.5180	2,771.5180	0.2704	0.0000	2,777.1965

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	2,875.32	617.40	258.72	5,207,176	5,207,176
Strip Mall	0.00	0.00	0.00		
Total	2,875.32	617.40	258.72	5,207,176	5,207,176

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.514795	0.122199	0.202623	0.071970	0.010436	0.006310	0.019893	0.038012	0.001148	0.004559	0.005916	0.000316	0.001823

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,834.7260	1,834.7260	0.1088	0.0225	1,843.9897
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,834.7260	1,834.7260	0.1088	0.0225	1,843.9897
NaturalGas Mitigated	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0914	639.0914	0.0123	0.0117	642.9808
NaturalGas Unmitigated	0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0914	639.0914	0.0123	0.0117	642.9808

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					
Strip Mall	45600	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4334	2.4334	5.0000e-005	4.0000e-005	2.4482
General Office Building	1.19305e+007	0.0643	0.5848	0.4913	3.5100e-003		0.0445	0.0445		0.0445	0.0445	0.0000	636.6580	636.6580	0.0122	0.0117	640.5326
Total		0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0914	639.0914	0.0123	0.0117	642.9808

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
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Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.19305e+007	0.0643	0.5848	0.4913	3.5100e-003		0.0445	0.0445		0.0445	0.0445	0.0000	636.6580	636.6580	0.0122	0.0117	640.5326
Strip Mall	45600	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4334	2.4334	5.0000e-005	4.0000e-005	2.4482
Total		0.0646	0.5871	0.4931	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	639.0914	639.0914	0.0123	0.0117	642.9808

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8.16144e+006	1,810.2618	0.1074	0.0222	1,819.4020
Strip Mall	110295	24.4642	1.4500e-003	3.0000e-004	24.5877
Total		1,834.7260	0.1088	0.0225	1,843.9897

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8.16144e+006	1,810.2618	0.1074	0.0222	1,819.4020
Strip Mall	110295	24.4642	1.4500e-003	3.0000e-004	24.5877
Total		1,834.7260	0.1088	0.0225	1,843.9897

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	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117
Unmitigated	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117

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	0.6231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-004	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117
Total	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117

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	0.6231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-004	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117
Total	2.9576	8.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0107	0.0107	5.0000e-005	0.0000	0.0117

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

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	177.8052	0.1107	0.0665	200.7330
Unmitigated	213.5585	0.1386	0.0831	242.2337

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	104.507 / 64.0529	212.1301	0.1377	0.0826	240.6136
Strip Mall	0.703689 / 0.431293	1.4284	9.3000e-004	5.6000e-004	1.6201
Total		213.5585	0.1386	0.0831	242.2337

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	83.606 / 60.1457	176.6160	0.1100	0.0660	199.3905
Strip Mall	0.562951 / 0.404984	1.1892	7.4000e-004	4.4000e-004	1.3426
Total		177.8052	0.1107	0.0665	200.7330

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
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	MT/yr			
Mitigated	113.0274	6.6797	0.0000	253.3017
Unmitigated	113.0274	6.6797	0.0000	253.3017

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	546.84	111.0036	6.5601	0.0000	248.7662
Strip Mall	9.97	2.0238	0.1196	0.0000	4.5355
Total		113.0274	6.6797	0.0000	253.3017

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	546.84	111.0036	6.5601	0.0000	248.7662
Strip Mall	9.97	2.0238	0.1196	0.0000	4.5355
Total		113.0274	6.6797	0.0000	253.3017

9.0 Operational Offroad

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

Averaging of Construction Emissions

Annual Emission from CalEEMod:

ROG	Nox	PM10	PM2.5
3.138	11.0227	0.3575	0.3352

 tons/project

Days of Construction = (from CalEEMod input file)

	Days
Site Preparation =	2
Grading =	40
Building Construction =	423
Paving =	15
Architectural Coating =	40
Total =	520

Average daily Emissions =

ROG	Nox	PM10	PM2.5
12.07	42.40	1.38	1.29

 pound/day

GENERATOR EMISSIONS TIER 3 2016

Year 2019

Operations (CalEEMod) =

Generators =

Total =

Tons per year			
ROG	NOx	PM10	PM2.5
3.9310	4.0635	2.0329	0.6044
0.02514	0.31	0.022	0.022
3.95614	4.3735	2.0549	0.6264

Average Pounds per Day			
ROG	NOx	PM10	PM2.5
21.53973	22.26575	11.13918	3.311781
0.137753	1.69863	0.120548	0.120548
21.67748	23.96438	11.25973	3.432329

Weekend Vehicle Trip Calculations - City Center T12 Office

No TDM for BAU Scenario

Per Fehr & Peers Project Trip Generation for weekday =

		Size
Office	5046 trips	588 ksf
Total =	5046 trips	
Post Adjustment Total =	2876 trips	This is weekday

Reallocate adjusted trips to land use =

			Rate
Office	2876 trips	Weekday	4.891156 trip/ksf
Total =	2876		

CalEEMod Weekday and Weekend default rates from ITE =

	Weekday	Saturday	Sunday
Office	11.01	2.37	0.98

Calculate weekend trips based on Project specific Trip demand from Fehr & Peers

	Saturday	Rate	Sunday	Rate
Office	619 trips	1.052865 trip/ksf	256 trips	0.435362 trip/ksf

Weekend Vehicle Trip Calculations - City Center T12 Office

WITH TDM

Per Fehr & Peers Project Trip Generation for weekday =

		Size
Office	5046 trips	588 ksf
Total =	5046 trips	
Post Adjustment Total =	2876 trips	This is weekday

Apply 20% BAU Reduction

			Rate
Office	2300.8 trips	Weekday	3.912925 trip/ksf
Total =	2300.8		

CalEEMod Weekday and Weekend default rates from ITE =

	Weekday	Saturday	Sunday
Office	11.01	2.37	0.98

Calculate weekend trips based on Project specific Trip demand from Fehr & Peers

	Saturday	Rate	Sunday	Rate
Office	495 trips	0.842292 trip/ksf	205 trips	0.348289 trip/ksf