

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	31.00	Room	0.28	12,196.80	0
User Defined Recreational	151.00	User Defined Unit	4.47	194,713.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	45,012.00	12,196.80
tblLandUse	LandUseSquareFeet	0.00	194,713.00
tblLandUse	LotAcreage	1.03	0.28
tblLandUse	LotAcreage	0.00	4.47
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696
Energy	0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325
Mobile	5.6094	10.1096	46.2886	0.0581	4.0882	0.1108	4.1990	1.0932	0.1017	1.1949		5,111.5366	5,111.5366	0.2637		5,117.0744
Total	41.3033	13.5765	168.3074	0.2786	4.0882	16.2043	20.2926	1.0932	16.1952	17.2884	1,537.7829	7,521.0020	9,058.7849	15.9381	0.0442	9,407.1765

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	lb/day										lb/day					
Area	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013
Energy	0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1241
Mobile	5.5507	9.7363	45.1363	0.0555	3.8882	0.1061	3.9943	1.0397	0.0973	1.1371		4,875.7118	4,875.7118	0.2536		4,881.0376
Total	12.3083	11.4053	46.6402	0.0655	3.8882	0.2334	4.1216	1.0397	0.2246	1.2644	0.0000	6,877.8477	6,877.8477	0.2923	0.0367	6,895.3629

	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	70.20	15.99	72.29	76.49	4.89	98.56	79.69	4.89	98.61	92.69	100.00	8.55	24.08	98.17	16.91	26.70

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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	lb/day										lb/day					
Fugitive Dust					19.8161	0.0000	19.8161	10.1196	0.0000	10.1196			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	19.8161	3.0883	22.9044	10.1196	2.8412	12.9608		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.2 Site Preparation - 2015

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	lb/day										lb/day						
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
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
Worker	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110			167.8291
Total	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110			167.8291

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	lb/day										lb/day						
Fugitive Dust					7.7283	0.0000	7.7283	3.9467	0.0000	3.9467			0.0000				0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.1442	0.1442		0.1442	0.1442	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224
Total	0.9515	19.4584	23.4003	0.0391	7.7283	0.1442	7.8724	3.9467	0.1442	4.0908	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224

3.2 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291
Total	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291

3.3 Grading - 2015

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	lb/day										lb/day					
Fugitive Dust					7.9554	0.0000	7.9554	3.5650	0.0000	3.5650			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	7.9554	2.3284	10.2837	3.5650	2.1421	5.7070		3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	21.3638	267.4461	220.4840	0.5422	12.5008	4.0375	16.5383	3.4206	3.7134	7.1340		55,088.1046	55,088.1046	0.4627		55,097.8203
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576
Total	21.4494	267.5708	221.6166	0.5438	12.6491	4.0387	16.6878	3.4599	3.7145	7.1745		55,227.7696	55,227.7696	0.4718		55,237.6779

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	lb/day										lb/day					
Fugitive Dust					3.1026	0.0000	3.1026	1.3903	0.0000	1.3903			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0298		0.1178	0.1178		0.1178	0.1178	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	0.7250	14.8148	20.3762	0.0298	3.1026	0.1178	3.2204	1.3903	0.1178	1.5082	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	21.3638	267.4461	220.4840	0.5422	12.5008	4.0375	16.5383	3.4206	3.7134	7.1340		55,088.1046	55,088.1046	0.4627		55,097.8203
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576
Total	21.4494	267.5708	221.6166	0.5438	12.6491	4.0387	16.6878	3.4599	3.7145	7.1745		55,227.7696	55,227.7696	0.4718		55,237.6779

3.4 Building Construction - 2015

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	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.6974	4.2497	7.9516	7.8000e-003	0.2095	0.0672	0.2767	0.0598	0.0618	0.1216		783.0165	783.0165	7.8000e-003			783.1802
Worker	0.6675	0.9732	8.8346	0.0126	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,089.3871	1,089.3871	0.0715			1,090.8889
Total	1.3649	5.2229	16.7863	0.0204	1.3661	0.0771	1.4433	0.3666	0.0707	0.4373		1,872.4035	1,872.4035	0.0793			1,874.0691

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	lb/day										lb/day						
Off-Road	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.6974	4.2497	7.9516	7.8000e-003	0.2095	0.0672	0.2767	0.0598	0.0618	0.1216		783.0165	783.0165	7.8000e-003			783.1802
Worker	0.6675	0.9732	8.8346	0.0126	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,089.3871	1,089.3871	0.0715			1,090.8889
Total	1.3649	5.2229	16.7863	0.0204	1.3661	0.0771	1.4433	0.3666	0.0707	0.4373		1,872.4035	1,872.4035	0.0793			1,874.0691

3.5 Paving - 2015

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	lb/day										lb/day						
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576
Total	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576

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	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day						
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
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576
Total	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576

3.5 Paving - 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	lb/day										lb/day						
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410
Total	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410
Total	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410

3.6 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	329.1058	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562
Total	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562

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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449
Total	328.7968	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562
Total	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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	lb/day										lb/day					
Unmitigated	5.6094	10.1096	46.2886	0.0581	4.0882	0.1108	4.1990	1.0932	0.1017	1.1949		5,111.5366	5,111.5366	0.2637		5,117.0744
Mitigated	5.5507	9.7363	45.1363	0.0555	3.8882	0.1061	3.9943	1.0397	0.0973	1.1371		4,875.7118	4,875.7118	0.2536		4,881.0376

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	253.27	253.89	253.89	408,375	388,396
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	407.70	407.70	407.70	656,920	624,781
Total	1,362.40	1,363.53	1,362.22	1,923,852	1,829,731

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1241
NaturalGas Unmitigated	0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325

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	lb/day										lb/day					
Convenience Market (24 Hour)	13.6438	1.5000e-004	1.3400e-003	1.1200e-003	1.0000e-005		1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004		1.6052	1.6052	3.0000e-005	3.0000e-005	1.6149
General Light Industry	750.959	8.1000e-003	0.0736	0.0618	4.4000e-004		5.6000e-003	5.6000e-003	5.6000e-003	5.6000e-003	5.6000e-003		88.3481	88.3481	1.6900e-003	1.6200e-003	88.8858
General Office Building	745.414	8.0400e-003	0.0731	0.0614	4.4000e-004		5.5500e-003	5.5500e-003	5.5500e-003	5.5500e-003	5.5500e-003		87.6957	87.6957	1.6800e-003	1.6100e-003	88.2294
High Turnover (Sit Down Restaurant)	1734.58	0.0187	0.1701	0.1429	1.0200e-003		0.0129	0.0129	0.0129	0.0129	0.0129		204.0677	204.0677	3.9100e-003	3.7400e-003	205.3096
Hotel	1549.83	0.0167	0.1519	0.1276	9.1000e-004		0.0116	0.0116	0.0116	0.0116	0.0116		182.3328	182.3328	3.4900e-003	3.3400e-003	183.4425
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004	7.2000e-004	7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
User Defined Recreational	15587.7	0.1681	1.5282	1.2837	9.1700e-003		0.1161	0.1161	0.1161	0.1161	0.1161		1,833.8481	1,833.8481	0.0352	0.0336	1,845.0086
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	0.0109151	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		1.2841	1.2841	2.0000e-005	2.0000e-005	1.2919
General Light Industry	0.637315	6.8700e-003	0.0625	0.0525	3.7000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		74.9782	74.9782	1.4400e-003	1.3700e-003	75.4346
General Office Building	0.59685	6.4400e-003	0.0585	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003		70.2177	70.2177	1.3500e-003	1.2900e-003	70.6450
High Turnover (Sit Down Restaurant)	1.63008	0.0176	0.1598	0.1342	9.6000e-004		0.0122	0.0122		0.0122	0.0122		191.7737	191.7737	3.6800e-003	3.5200e-003	192.9408
Hotel	1.27161	0.0137	0.1247	0.1047	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.6010	149.6010	2.8700e-003	2.7400e-003	150.5114
Single Family Housing	0.0805527	8.7000e-004	7.4200e-003	3.1600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4768	9.4768	1.8000e-004	1.7000e-004	9.5345
User Defined Recreational	12.7892	0.1379	1.2538	1.0532	7.5200e-003		0.0953	0.0953		0.0953	0.0953		1,504.6090	1,504.6090	0.0288	0.0276	1,513.7658
City Park	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
Total		0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1240

6.0 Area Detail

6.1 Mitigation Measures Area

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

	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	lb/day										lb/day					
Unmitigated	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696
Mitigated	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013

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	lb/day										lb/day					
Architectural Coating	1.8013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.6093	1.4586	120.2305	0.2084		15.9404	15.9404		15.9404	15.9404	1,537.7829	0.0000	1,537.7829	15.6279	0.0000	1,865.9683
Landscaping	4.8200e-003	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		0.1953	0.1953	2.8000e-004		0.2013
Total	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8200e-003	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		0.1953	0.1953	2.8000e-004		0.2013
Total	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	31.00	Room	0.28	12,196.80	0
User Defined Recreational	151.00	User Defined Unit	4.47	194,713.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	45,012.00	12,196.80
tblLandUse	LandUseSquareFeet	0.00	194,713.00
tblLandUse	LotAcreage	1.03	0.28
tblLandUse	LotAcreage	0.00	4.47
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696
Energy	0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325
Mobile	5.0597	9.5484	39.5699	0.0601	4.0882	0.1097	4.1979	1.0932	0.1006	1.1938		5,290.0307	5,290.0307	0.2634		5,295.5624
Total	40.7536	13.0154	161.5887	0.2806	4.0882	16.2032	20.2914	1.0932	16.1942	17.2874	1,537.7829	7,699.4961	9,237.2790	15.9378	0.0442	9,585.6644

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	lb/day										lb/day					
Area	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013
Energy	0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1241
Mobile	5.0016	9.1967	38.3833	0.0574	3.8882	0.1049	3.9931	1.0397	0.0963	1.1360		5,045.9960	5,045.9960	0.2533		5,051.3156
Total	11.7592	10.8657	39.8872	0.0674	3.8882	0.2323	4.1205	1.0397	0.2236	1.2633	0.0000	7,048.1319	7,048.1319	0.2920	0.0367	7,065.6410

	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	71.15	16.52	75.32	75.99	4.89	98.57	79.69	4.89	98.62	92.69	100.00	8.46	23.70	98.17	16.91	26.29

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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	lb/day										lb/day					
Fugitive Dust					19.8161	0.0000	19.8161	10.1196	0.0000	10.1196			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	19.8161	3.0883	22.9044	10.1196	2.8412	12.9608		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.2 Site Preparation - 2015

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	lb/day										lb/day						
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
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
Worker	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497
Total	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497

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	lb/day										lb/day						
Fugitive Dust					7.7283	0.0000	7.7283	3.9467	0.0000	3.9467			0.0000				0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.1442	0.1442		0.1442	0.1442	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224
Total	0.9515	19.4584	23.4003	0.0391	7.7283	0.1442	7.8724	3.9467	0.1442	4.0908	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224

3.2 Site Preparation - 2015**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	lb/day										lb/day					
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
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
Worker	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110		175.9497
Total	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110		175.9497

3.3 Grading - 2015**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	lb/day										lb/day					
Fugitive Dust					7.9554	0.0000	7.9554	3.5650	0.0000	3.5650			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	7.9554	2.3284	10.2837	3.5650	2.1421	5.7070		3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	18.4720	261.3530	163.2259	0.5425	12.5008	4.0192	16.5200	3.4206	3.6966	7.1172		55,215.9138	55,215.9138	0.4572		55,225.5147
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	18.5511	261.4632	164.3344	0.5442	12.6491	4.0205	16.6696	3.4599	3.6977	7.1576		55,362.3460	55,362.3460	0.4664		55,372.1394

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	lb/day										lb/day					
Fugitive Dust					3.1026	0.0000	3.1026	1.3903	0.0000	1.3903			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0298		0.1178	0.1178		0.1178	0.1178	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	0.7250	14.8148	20.3762	0.0298	3.1026	0.1178	3.2204	1.3903	0.1178	1.5082	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	18.4720	261.3530	163.2259	0.5425	12.5008	4.0192	16.5200	3.4206	3.6966	7.1172		55,215.9138	55,215.9138	0.4572		55,225.5147
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	18.5511	261.4632	164.3344	0.5442	12.6491	4.0205	16.6696	3.4599	3.6977	7.1576		55,362.3460	55,362.3460	0.4664		55,372.1394

3.4 Building Construction - 2015

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	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.5661	4.1833	5.5284	7.8400e-003	0.2095	0.0660	0.2754	0.0598	0.0606	0.1204		791.4489	791.4489	7.5600e-003			791.6077
Worker	0.6174	0.8595	8.6464	0.0132	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,142.1709	1,142.1709	0.0715			1,143.6728
Total	1.1834	5.0429	14.1748	0.0211	1.3661	0.0759	1.4420	0.3666	0.0695	0.4361		1,933.6198	1,933.6198	0.0791			1,935.2804

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	lb/day										lb/day						
Off-Road	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.5661	4.1833	5.5284	7.8400e-003	0.2095	0.0660	0.2754	0.0598	0.0606	0.1204		791.4489	791.4489	7.5600e-003			791.6077
Worker	0.6174	0.8595	8.6464	0.0132	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,142.1709	1,142.1709	0.0715			1,143.6728
Total	1.1834	5.0429	14.1748	0.0211	1.3661	0.0759	1.4420	0.3666	0.0695	0.4361		1,933.6198	1,933.6198	0.0791			1,935.2804

3.5 Paving - 2015

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	lb/day										lb/day						
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day						
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
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003			146.6247
Total	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003			146.6247

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247

3.5 Paving - 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	lb/day										lb/day					
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987		2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866
Total	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866
Total	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866

3.6 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	329.1058	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929
Total	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929

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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449
Total	328.7968	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929
Total	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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	lb/day										lb/day					
Unmitigated	5.0597	9.5484	39.5699	0.0601	4.0882	0.1097	4.1979	1.0932	0.1006	1.1938		5,290.0307	5,290.0307	0.2634		5,295.5624
Mitigated	5.0016	9.1967	38.3833	0.0574	3.8882	0.1049	3.9931	1.0397	0.0963	1.1360		5,045.9960	5,045.9960	0.2533		5,051.3156

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	253.27	253.89	253.89	408,375	388,396
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	407.70	407.70	407.70	656,920	624,781
Total	1,362.40	1,363.53	1,362.22	1,923,852	1,829,731

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1241
NaturalGas Unmitigated	0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325

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	lb/day										lb/day					
Convenience Market (24 Hour)	13.6438	1.5000e-004	1.3400e-003	1.1200e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6052	1.6052	3.0000e-005	3.0000e-005	1.6149
General Light Industry	750.959	8.1000e-003	0.0736	0.0618	4.4000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003		88.3481	88.3481	1.6900e-003	1.6200e-003	88.8858
General Office Building	745.414	8.0400e-003	0.0731	0.0614	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003		87.6957	87.6957	1.6800e-003	1.6100e-003	88.2294
High Turnover (Sit Down Restaurant)	1734.58	0.0187	0.1701	0.1429	1.0200e-003		0.0129	0.0129		0.0129	0.0129		204.0677	204.0677	3.9100e-003	3.7400e-003	205.3096
Hotel	1549.83	0.0167	0.1519	0.1276	9.1000e-004		0.0116	0.0116		0.0116	0.0116		182.3328	182.3328	3.4900e-003	3.3400e-003	183.4425
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
User Defined Recreational	15587.7	0.1681	1.5282	1.2837	9.1700e-003		0.1161	0.1161		0.1161	0.1161		1,833.8481	1,833.8481	0.0352	0.0336	1,845.0086
City Park	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
Total		0.2209	2.0072	1.6823	0.0121		0.1526	0.1526		0.1526	0.1526		2,409.2701	2,409.2701	0.0462	0.0442	2,423.9325

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	0.0109151	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		1.2841	1.2841	2.0000e-005	2.0000e-005	1.2919
General Light Industry	0.637315	6.8700e-003	0.0625	0.0525	3.7000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		74.9782	74.9782	1.4400e-003	1.3700e-003	75.4346
General Office Building	0.59685	6.4400e-003	0.0585	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003		70.2177	70.2177	1.3500e-003	1.2900e-003	70.6450
High Turnover (Sit Down Restaurant)	1.63008	0.0176	0.1598	0.1342	9.6000e-004		0.0122	0.0122		0.0122	0.0122		191.7737	191.7737	3.6800e-003	3.5200e-003	192.9408
Hotel	1.27161	0.0137	0.1247	0.1047	7.5000e-004		9.4700e-003	9.4700e-003		9.4700e-003	9.4700e-003		149.6010	149.6010	2.8700e-003	2.7400e-003	150.5114
Single Family Housing	0.0805527	8.7000e-004	7.4200e-003	3.1600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4768	9.4768	1.8000e-004	1.7000e-004	9.5345
User Defined Recreational	12.7892	0.1379	1.2538	1.0532	7.5200e-003		0.0953	0.0953		0.0953	0.0953		1,504.6090	1,504.6090	0.0288	0.0276	1,513.7658
City Park	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
Total		0.1835	1.6678	1.3979	0.0100		0.1268	0.1268		0.1268	0.1268		2,001.9406	2,001.9406	0.0384	0.0367	2,014.1240

6.0 Area Detail

6.1 Mitigation Measures Area

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

	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	lb/day										lb/day					
Unmitigated	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696
Mitigated	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013

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	lb/day										lb/day					
Architectural Coating	1.8013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.6093	1.4586	120.2305	0.2084		15.9404	15.9404		15.9404	15.9404	1,537.7829	0.0000	1,537.7829	15.6279	0.0000	1,865.9683
Landscaping	4.8200e-003	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		0.1953	0.1953	2.8000e-004		0.2013
Total	35.4731	1.4598	120.3365	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1953	1,537.9782	15.6282	0.0000	1,866.1696

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0577					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8200e-003	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004		0.1953	0.1953	2.8000e-004		0.2013
Total	6.5741	1.1900e-003	0.1060	1.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	0.1953	0.1953	2.8000e-004	0.0000	0.2013

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	31.00	Room	0.28	12,196.80	0
User Defined Recreational	151.00	User Defined Unit	4.47	194,713.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	45,012.00	12,196.80
tblLandUse	LandUseSquareFeet	0.00	194,713.00
tblLandUse	LotAcreage	1.03	0.28
tblLandUse	LotAcreage	0.00	4.47
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	2.2633	0.0440	3.6244	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0292	41.8808	0.4254	0.0000	50.8135
Energy	0.0403	0.3663	0.3070	2.2000e-003		0.0279	0.0279		0.0279	0.0279	0.0000	885.8253	885.8253	0.0297	0.0119	890.1274
Mobile	0.9451	1.8319	7.9158	0.0106	0.7241	0.0200	0.7441	0.1940	0.0184	0.2124	0.0000	847.6529	847.6529	0.0434	0.0000	848.5646
Waste						0.0000	0.0000		0.0000	0.0000	21.1232	0.0000	21.1232	1.2484	0.0000	47.3385
Water						0.0000	0.0000		0.0000	0.0000	2.2445	14.3846	16.6291	0.2312	5.5800e-003	23.2130
Total	3.2488	2.2421	11.8473	0.0191	0.7241	0.5262	1.2502	0.1940	0.5245	0.7186	65.2193	1,747.8920	1,813.1113	1.9780	0.0175	1,860.0571

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1997	2.0000e-004	0.0175	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0292	0.0292	4.0000e-005	0.0000	0.0301
Energy	0.0335	0.3044	0.2551	1.8300e-003		0.0231	0.0231		0.0231	0.0231	0.0000	765.9752	765.9752	0.0260	0.0101	769.6651
Mobile	0.9345	1.7640	7.7074	0.0101	0.6887	0.0191	0.7078	0.1846	0.0176	0.2021	0.0000	808.5808	808.5808	0.0418	0.0000	809.4577
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9078	11.5987	13.5065	0.1965	4.7400e-003	19.1004
Total	2.1677	2.0686	7.9800	0.0120	0.6887	0.0424	0.7310	0.1846	0.0408	0.2253	1.9078	1,586.1840	1,588.0918	0.2643	0.0149	1,598.2534

	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	33.28	7.74	32.64	37.28	4.89	91.95	41.53	4.89	92.22	68.64	97.07	9.25	12.41	86.64	14.73	14.08

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	0.0000
Total	0.0000

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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					0.0991	0.0000	0.0991	0.0506	0.0000	0.0506	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0991	0.0154	0.1145	0.0506	0.0142	0.0648	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675

3.2 Site Preparation - 2015

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	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674
Total	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674

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					0.0386	0.0000	0.0386	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0973	0.1170	2.0000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	4.7600e-003	0.0973	0.1170	2.0000e-004	0.0386	7.2000e-004	0.0394	0.0197	7.2000e-004	0.0205	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675

3.2 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674
Total	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674

3.3 Grading - 2015

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					0.0796	0.0000	0.0796	0.0357	0.0000	0.0357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0383	0.4042	0.2667	3.0000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	28.3860	28.3860	8.4700e-003	0.0000	28.5639
Total	0.0383	0.4042	0.2667	3.0000e-004	0.0796	0.0233	0.1028	0.0357	0.0214	0.0571	0.0000	28.3860	28.3860	8.4700e-003	0.0000	28.5639

3.3 Grading - 2015

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	0.2012	2.6969	1.9877	5.4300e-003	0.1221	0.0403	0.1624	0.0335	0.0370	0.0705	0.0000	500.4234	500.4234	4.1700e-003	0.0000	500.5109
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	8.0000e-004	1.2300e-003	0.0111	2.0000e-005	1.4400e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	4.0000e-004	0.0000	1.2772	1.2772	8.0000e-005	0.0000	1.2790
Total	0.2020	2.6982	1.9988	5.4500e-003	0.1236	0.0403	0.1639	0.0339	0.0371	0.0709	0.0000	501.7006	501.7006	4.2500e-003	0.0000	501.7899

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					0.0310	0.0000	0.0310	0.0139	0.0000	0.0139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2500e-003	0.1482	0.2038	3.0000e-004		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	28.3859	28.3859	8.4700e-003	0.0000	28.5639
Total	7.2500e-003	0.1482	0.2038	3.0000e-004	0.0310	1.1800e-003	0.0322	0.0139	1.1800e-003	0.0151	0.0000	28.3859	28.3859	8.4700e-003	0.0000	28.5639

3.3 Grading - 2015**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	0.2012	2.6969	1.9877	5.4300e-003	0.1221	0.0403	0.1624	0.0335	0.0370	0.0705	0.0000	500.4234	500.4234	4.1700e-003	0.0000	500.5109
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	8.0000e-004	1.2300e-003	0.0111	2.0000e-005	1.4400e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	4.0000e-004	0.0000	1.2772	1.2772	8.0000e-005	0.0000	1.2790
Total	0.2020	2.6982	1.9988	5.4500e-003	0.1236	0.0403	0.1639	0.0339	0.0371	0.0709	0.0000	501.7006	501.7006	4.2500e-003	0.0000	501.7899

3.4 Building Construction - 2015**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	0.4208	3.4534	2.1556	3.0800e-003		0.2434	0.2434		0.2289	0.2289	0.0000	280.5935	280.5935	0.0704	0.0000	282.0719
Total	0.4208	3.4534	2.1556	3.0800e-003		0.2434	0.2434		0.2289	0.2289	0.0000	280.5935	280.5935	0.0704	0.0000	282.0719

3.4 Building Construction - 2015

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	0.0735	0.4938	0.8080	9.0000e-004	0.0236	7.6500e-003	0.0312	6.7500e-003	7.0300e-003	0.0138	0.0000	82.1994	82.1994	8.0000e-004	0.0000	82.2162
Worker	0.0719	0.1101	0.9952	1.4600e-003	0.1295	1.1400e-003	0.1307	0.0344	1.0200e-003	0.0355	0.0000	114.5661	114.5661	7.4600e-003	0.0000	114.7227
Total	0.1454	0.6039	1.8031	2.3600e-003	0.1531	8.7900e-003	0.1619	0.0412	8.0500e-003	0.0492	0.0000	196.7655	196.7655	8.2600e-003	0.0000	196.9389

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	0.0772	1.6300	2.0488	3.0800e-003		0.0461	0.0461		0.0461	0.0461	0.0000	280.5932	280.5932	0.0704	0.0000	282.0716
Total	0.0772	1.6300	2.0488	3.0800e-003		0.0461	0.0461		0.0461	0.0461	0.0000	280.5932	280.5932	0.0704	0.0000	282.0716

3.4 Building Construction - 2015

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	0.0735	0.4938	0.8080	9.0000e-004	0.0236	7.6500e-003	0.0312	6.7500e-003	7.0300e-003	0.0138	0.0000	82.1994	82.1994	8.0000e-004	0.0000	82.2162
Worker	0.0719	0.1101	0.9952	1.4600e-003	0.1295	1.1400e-003	0.1307	0.0344	1.0200e-003	0.0355	0.0000	114.5661	114.5661	7.4600e-003	0.0000	114.7227
Total	0.1454	0.6039	1.8031	2.3600e-003	0.1531	8.7900e-003	0.1619	0.0412	8.0500e-003	0.0492	0.0000	196.7655	196.7655	8.2600e-003	0.0000	196.9389

3.5 Paving - 2015

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	1.1600e-003	0.0126	7.4900e-003	1.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1600e-003	0.0126	7.4900e-003	1.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680

3.5 Paving - 2015**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	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640
Total	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640

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	2.7000e-004	5.5300e-003	8.4600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7000e-004	5.5300e-003	8.4600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680

3.5 Paving - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640
Total	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640

3.5 Paving - 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	0.0199	0.2127	0.1408	2.1000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0199	0.2127	0.1408	2.1000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896

3.5 Paving - 2016

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	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715
Total	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715

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	5.2200e-003	0.1051	0.1608	2.1000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.2200e-003	0.1051	0.1608	2.1000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896

3.5 Paving - 2016

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	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715
Total	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715

3.6 Architectural Coating - 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					
Archit. Coating	3.2874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	3.2911	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596

3.6 Architectural Coating - 2016

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	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	0.0000
Worker	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908	
Total	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908	

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	3.2874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	3.2880	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596

3.6 Architectural Coating - 2016

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	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	0.0000
Worker	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908	
Total	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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					
Unmitigated	0.9451	1.8319	7.9158	0.0106	0.7241	0.0200	0.7441	0.1940	0.0184	0.2124	0.0000	847.6529	847.6529	0.0434	0.0000	848.5646
Mitigated	0.9345	1.7640	7.7074	0.0101	0.6887	0.0191	0.7078	0.1846	0.0176	0.2021	0.0000	808.5808	808.5808	0.0418	0.0000	809.4577

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	253.27	253.89	253.89	408,375	388,396
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	407.70	407.70	407.70	656,920	624,781
Total	1,362.40	1,363.53	1,362.22	1,923,852	1,829,731

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	0.0335	0.3044	0.2551	1.8300e-003		0.0231	0.0231		0.0231	0.0231	0.0000	331.4437	331.4437	6.3500e-003	6.0800e-003	333.4608
NaturalGas Unmitigated	0.0403	0.3663	0.3070	2.2000e-003		0.0279	0.0279		0.0279	0.0279	0.0000	398.8817	398.8817	7.6500e-003	7.3100e-003	401.3092
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	434.5315	434.5315	0.0197	4.0700e-003	436.2043
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	486.9436	486.9436	0.0220	4.5600e-003	488.8182

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					
City Park	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
Convenience Market (24 Hour)	4980	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2658	0.2658	1.0000e-005	0.0000	0.2674
General Light Industry	274100	1.4800e-003	0.0134	0.0113	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6270	14.6270	2.8000e-004	2.7000e-004	14.7160
General Office Building	272076	1.4700e-003	0.0133	0.0112	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.5190	14.5190	2.8000e-004	2.7000e-004	14.6074
High Turnover (Sit Down Restaurant)	633120	3.4100e-003	0.0310	0.0261	1.9000e-004		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	33.7857	33.7857	6.5000e-004	6.2000e-004	33.9913
Hotel	565688	3.0500e-003	0.0277	0.0233	1.7000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	30.1872	30.1872	5.8000e-004	5.5000e-004	30.3710
Single Family Housing	35283	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943
User Defined Recreational	5.68951e+006	0.0307	0.2789	0.2343	1.6700e-003		0.0212	0.0212		0.0212	0.0212	0.0000	303.6141	303.6141	5.8200e-003	5.5700e-003	305.4619
Total		0.0403	0.3663	0.3070	2.2000e-003		0.0279	0.0279		0.0279	0.0279	0.0000	398.8817	398.8817	7.6600e-003	7.3100e-003	401.3092

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market (24 Hour)	3984	2.0000e-005	2.0000e-004	1.6000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2126	0.2126	0.0000	0.0000	0.2139
General Light Industry	232620	1.2500e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4135	12.4135	2.4000e-004	2.3000e-004	12.4890
General Office Building	217850	1.1700e-003	0.0107	8.9700e-003	6.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	11.6253	11.6253	2.2000e-004	2.1000e-004	11.6961
High Turnover (Sit Down Restaurant)	594978	3.2100e-003	0.0292	0.0245	1.7000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.7503	31.7503	6.1000e-004	5.8000e-004	31.9435
Hotel	464137	2.5000e-003	0.0228	0.0191	1.4000e-004		1.7300e-003	1.7300e-003		1.7300e-003	1.7300e-003	0.0000	24.7681	24.7681	4.7000e-004	4.5000e-004	24.9189
Single Family Housing	29401.7	1.6000e-004	1.3500e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5690	1.5690	3.0000e-005	3.0000e-005	1.5785
User Defined Recreational	4.66805e+006	0.0252	0.2288	0.1922	1.3700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	249.1049	249.1049	4.7700e-003	4.5700e-003	250.6209
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0335	0.3044	0.2551	1.8200e-003		0.0231	0.0231		0.0231	0.0231	0.0000	331.4437	331.4437	6.3400e-003	6.0700e-003	333.4608

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	23380	6.8015	3.1000e-004	6.0000e-005	6.8277
General Light Industry	90300	26.2693	1.1900e-003	2.5000e-004	26.3704
General Office Building	311418	90.5951	4.1000e-003	8.5000e-004	90.9438
High Turnover (Sit Down Restaurant)	102870	29.9261	1.3500e-003	2.8000e-004	30.0413
Hotel	102941	29.9467	1.3500e-003	2.8000e-004	30.0620
Single Family Housing	7072.94	2.0576	9.0000e-005	2.0000e-005	2.0655
User Defined Recreational	1.03587e+006	301.3474	0.0136	2.8200e-003	302.5075
Total		486.9436	0.0220	4.5600e-003	488.8182

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	20227.2	5.8843	2.7000e-004	6.0000e-005	5.9070
General Light Industry	81048	23.5778	1.0700e-003	2.2000e-004	23.6686
General Office Building	276696	80.4940	3.6400e-003	7.5000e-004	80.8039
High Turnover (Sit Down Restaurant)	96372	28.0357	1.2700e-003	2.6000e-004	28.1437
Hotel	91534.5	26.6285	1.2000e-003	2.5000e-004	26.7310
Single Family Housing	6741.8	1.9613	9.0000e-005	2.0000e-005	1.9688
User Defined Recreational	921070	267.9499	0.0121	2.5100e-003	268.9815
Total		434.5315	0.0197	4.0700e-003	436.2043

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	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	1.1997	2.0000e-004	0.0175	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0292	0.0292	4.0000e-005	0.0000	0.0301
Unmitigated	2.2633	0.0440	3.6244	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0292	41.8808	0.4254	0.0000	50.8135

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	0.3287					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8283	0.0438	3.6069	6.2500e-003		0.4782	0.4782		0.4782	0.4782	41.8516	0.0000	41.8516	0.4253	0.0000	50.7833
Landscaping	7.9000e-004	2.0000e-004	0.0175	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0292	0.0292	4.0000e-005	0.0000	0.0301
Total	2.2633	0.0440	3.6244	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0292	41.8808	0.4254	0.0000	50.8135

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0934					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.9000e-004	2.0000e-004	0.0175	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0292	0.0292	4.0000e-005	0.0000	0.0301
Total	1.1997	2.0000e-004	0.0175	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0292	0.0292	4.0000e-005	0.0000	0.0301

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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			
Unmitigated	16.6291	0.2312	5.5800e-003	23.2130
Mitigated	13.5065	0.1965	4.7400e-003	19.1004

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.19148	1.2132	5.0000e-005	1.0000e-005	1.2178
Convenience Market (24 Hour)	0.148145 / 0.0907986	0.3727	4.8400e-003	1.2000e-004	0.5106
General Light Industry	2.3125 / 0	4.3738	0.0755	1.8100e-003	6.5218
General Office Building	2.80819 / 1.72115	7.0638	0.0918	2.2200e-003	9.6790
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	1.7815	0.0297	7.1000e-004	2.6275
Hotel	0.78637 / 0.0873744	1.5763	0.0257	6.2000e-004	2.3071
Single Family Housing	0.065154 / 0.0410754	0.1651	2.1300e-003	5.0000e-005	0.2257
User Defined Recreational	0.0438 / 0	0.0828	1.4300e-003	3.0000e-005	0.1235
Total		16.6291	0.2312	5.5700e-003	23.2130

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	1.0918	5.0000e-005	1.0000e-005	1.0960
Convenience Market (24 Hour)	0.125923 / 0.0817187	0.3048	4.1200e-003	1.0000e-004	0.4220
General Light Industry	1.96563 / 0	3.4593	0.0642	1.5400e-003	5.2841
General Office Building	2.38696 / 1.54904	5.7780	0.0780	1.8800e-003	8.0001
High Turnover (Sit Down Restaurant)	0.774011 / 0.0523111	1.4155	0.0253	6.1000e-004	2.1342
Hotel	0.668414 / 0.078637	1.2564	0.0218	5.2000e-004	1.8772
Single Family Housing	0.0553809 / 0.0269678	0.1351	1.8100e-003	4.0000e-005	0.1867
User Defined Recreational	0.03723 / 0	0.0655	1.2200e-003	3.0000e-005	0.1001
Total		13.5065	0.1965	4.7300e-003	19.1004

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	21.1232	1.2484	0.0000	47.3385

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0409
Convenience Market (24 Hour)	6.01	1.2200	0.0721	0.0000	2.7340
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410
General Office Building	14.69	2.9819	0.1762	0.0000	6.6827
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	16.2405
Hotel	16.97	3.4448	0.2036	0.0000	7.7199
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.5596
User Defined Recreational	16.97	3.4448	0.2036	0.0000	7.7199
Total		21.1233	1.2484	0.0000	47.3385

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park		0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)		0.0000	0.0000	0.0000	0.0000
General Light Industry		0.0000	0.0000	0.0000	0.0000
General Office Building		0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)		0.0000	0.0000	0.0000	0.0000
Hotel		0.0000	0.0000	0.0000	0.0000
Single Family Housing		0.0000	0.0000	0.0000	0.0000
User Defined Recreational		0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.40	0.02	0.00	0.51	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.61	0.45	0.03	0.00	0.78	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.13	0.08	0.03	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.72	0.51	-0.13	0.00	0.93	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.80	0.66	0.44	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	1	1	No Change	0.00
Cranes	Diesel	Tier 3	1	1	Level 3	0.00
Excavators	Diesel	Tier 3	1	1	Level 3	0.00
Forklifts	Diesel	Tier 3	3	3	Level 3	0.00
Generator Sets	Diesel	Tier 3	1	1	No Change	0.00
Graders	Diesel	Tier 3	1	1	Level 3	0.00
Pavers	Diesel	Tier 3	2	2	Level 3	0.00
Paving Equipment	Diesel	Tier 3	2	2	Level 3	0.00
Rollers	Diesel	Tier 3	2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	Tier 3	4	4	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	10	10	Level 3	0.00
Welders	Diesel	Tier 3	1	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.68000E-003	2.37200E-002	1.88400E-002	3.00000E-005	1.97000E-003	1.97000E-003	0.00000E+000	2.55325E+000	2.55325E+000	3.00000E-004	0.00000E+000	2.55958E+000
Cranes	7.46900E-002	8.86500E-001	3.08620E-001	5.70000E-004	4.04700E-002	3.72300E-002	0.00000E+000	5.40733E+001	5.40733E+001	1.61400E-002	0.00000E+000	5.44123E+001
Excavators	4.17000E-003	4.86500E-002	3.43900E-002	5.00000E-005	2.40000E-003	2.21000E-003	0.00000E+000	5.03991E+000	5.03991E+000	1.50000E-003	0.00000E+000	5.07151E+000
Forklifts	8.32300E-002	7.14940E-001	4.40110E-001	5.30000E-004	6.00600E-002	5.52500E-002	0.00000E+000	5.01914E+001	5.01914E+001	1.49800E-002	0.00000E+000	5.05061E+001
Generator Sets	8.20800E-002	6.01260E-001	4.41140E-001	7.60000E-004	4.37500E-002	4.37500E-002	0.00000E+000	6.49989E+001	6.49989E+001	6.63000E-003	0.00000E+000	6.51382E+001
Graders	1.06200E-002	1.08680E-001	4.98100E-002	6.00000E-005	6.11000E-003	5.62000E-003	0.00000E+000	5.96081E+000	5.96081E+000	1.78000E-003	0.00000E+000	5.99818E+000
Pavers	8.08000E-003	9.08700E-002	5.70700E-002	9.00000E-005	4.52000E-003	4.16000E-003	0.00000E+000	8.51416E+000	8.51416E+000	2.57000E-003	0.00000E+000	8.56807E+000
Paving Equipment	6.17000E-003	7.18800E-002	5.08800E-002	8.00000E-005	3.56000E-003	3.28000E-003	0.00000E+000	7.56399E+000	7.56399E+000	2.28000E-003	0.00000E+000	7.61187E+000
Rollers	6.77000E-003	6.25100E-002	4.03000E-002	5.00000E-005	4.61000E-003	4.24000E-003	0.00000E+000	4.94634E+000	4.94634E+000	1.49000E-003	0.00000E+000	4.97765E+000
Rubber Tired Dozers	3.18300E-002	3.59680E-001	2.74410E-001	2.20000E-004	1.67800E-002	1.54400E-002	0.00000E+000	2.11812E+001	2.11812E+001	6.32000E-003	0.00000E+000	2.13140E+001
Tractors/Loaders/ Backhoes	1.26810E-001	1.20768E+000	8.53510E-001	1.10000E-003	9.45300E-002	8.69600E-002	0.00000E+000	1.04539E+002	1.04539E+002	3.12100E-002	0.00000E+000	1.05195E+002
Welders	7.20000E-002	2.14670E-001	2.33520E-001	2.90000E-004	1.80500E-002	1.80500E-002	0.00000E+000	2.16454E+001	2.16454E+001	5.87000E-003	0.00000E+000	2.17686E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	5.90000E-004	1.35700E-002	1.83200E-002	3.00000E-005	9.50000E-004	9.50000E-004	0.00000E+000	2.55325E+000	2.55325E+000	3.00000E-004	0.00000E+000	2.55957E+000
Cranes	1.39600E-002	2.69850E-001	3.02420E-001	5.70000E-004	1.54000E-003	1.54000E-003	0.00000E+000	5.40732E+001	5.40732E+001	1.61400E-002	0.00000E+000	5.44122E+001
Excavators	1.30000E-003	2.51900E-002	4.01700E-002	5.00000E-005	1.80000E-004	1.80000E-004	0.00000E+000	5.03990E+000	5.03990E+000	1.50000E-003	0.00000E+000	5.07150E+000
Forklifts	1.30000E-002	2.96770E-001	4.00740E-001	5.30000E-004	3.12000E-003	3.12000E-003	0.00000E+000	5.01913E+001	5.01913E+001	1.49800E-002	0.00000E+000	5.05060E+001
Generator Sets	1.51300E-002	3.45450E-001	4.66480E-001	7.60000E-004	2.42100E-002	2.42100E-002	0.00000E+000	6.49988E+001	6.49988E+001	6.63000E-003	0.00000E+000	6.51381E+001
Graders	1.51000E-003	2.91900E-002	4.65500E-002	6.00000E-005	2.10000E-004	2.10000E-004	0.00000E+000	5.96080E+000	5.96080E+000	1.78000E-003	0.00000E+000	5.99817E+000
Pavers	2.22000E-003	4.29600E-002	6.85200E-002	9.00000E-005	3.10000E-004	3.10000E-004	0.00000E+000	8.51415E+000	8.51415E+000	2.57000E-003	0.00000E+000	8.56806E+000
Paving Equipment	1.98000E-003	3.83000E-002	6.10800E-002	8.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	7.56398E+000	7.56398E+000	2.28000E-003	0.00000E+000	7.61186E+000
Rollers	1.29000E-003	2.93800E-002	3.96800E-002	5.00000E-005	3.10000E-004	3.10000E-004	0.00000E+000	4.94633E+000	4.94633E+000	1.49000E-003	0.00000E+000	4.97765E+000
Rubber Tired Dozers	5.40000E-003	1.04340E-001	1.16930E-001	2.20000E-004	5.90000E-004	5.90000E-004	0.00000E+000	2.11812E+001	2.11812E+001	6.32000E-003	0.00000E+000	2.13140E+001
Tractors/Loaders/Balckhoes	2.67300E-002	6.10290E-001	8.24110E-001	1.10000E-003	6.41000E-003	6.41000E-003	0.00000E+000	1.04539E+002	1.04539E+002	3.12100E-002	0.00000E+000	1.05194E+002
Welders	1.21800E-002	1.94390E-001	1.72140E-001	2.90000E-004	1.17600E-002	1.17600E-002	0.00000E+000	2.16454E+001	2.16454E+001	5.87000E-003	0.00000E+000	2.17686E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.39674E-001	4.27909E-001	2.76008E-002	0.00000E+000	5.17766E-001	5.17766E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.90689E-006
Cranes	8.13094E-001	6.95601E-001	2.00894E-002	0.00000E+000	9.61947E-001	9.58636E-001	0.00000E+000	1.10961E-006	1.10961E-006	0.00000E+000	0.00000E+000	1.28647E-006
Excavators	6.88249E-001	4.82220E-001	-1.68072E-001	0.00000E+000	9.25000E-001	9.18552E-001	0.00000E+000	1.98416E-006	1.98416E-006	0.00000E+000	0.00000E+000	1.97180E-006
Forklifts	8.43806E-001	5.84902E-001	8.94549E-002	0.00000E+000	9.48052E-001	9.43529E-001	0.00000E+000	1.19542E-006	1.19542E-006	0.00000E+000	0.00000E+000	1.18798E-006
Generator Sets	8.15668E-001	4.25457E-001	-5.74421E-002	0.00000E+000	4.46629E-001	4.46629E-001	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22816E-006
Graders	8.57815E-001	7.31413E-001	6.54487E-002	0.00000E+000	9.65630E-001	9.62633E-001	0.00000E+000	1.67762E-006	1.67762E-006	0.00000E+000	0.00000E+000	1.66717E-006
Pavers	7.25248E-001	5.27237E-001	-2.00631E-001	0.00000E+000	9.31416E-001	9.25481E-001	0.00000E+000	1.17451E-006	1.17451E-006	0.00000E+000	0.00000E+000	1.16712E-006
Paving Equipment	6.79092E-001	4.67168E-001	-2.00472E-001	0.00000E+000	9.21348E-001	9.14634E-001	0.00000E+000	1.32205E-006	1.32205E-006	0.00000E+000	0.00000E+000	1.31374E-006
Rollers	8.09453E-001	5.29995E-001	1.53846E-002	0.00000E+000	9.32755E-001	9.26887E-001	0.00000E+000	2.02170E-006	2.02170E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	8.30349E-001	7.09909E-001	5.73886E-001	0.00000E+000	9.64839E-001	9.61788E-001	0.00000E+000	9.44234E-007	9.44234E-007	0.00000E+000	0.00000E+000	1.40753E-006
Tractors/Loaders/Balckhoes	7.89212E-001	4.94659E-001	3.44460E-002	0.00000E+000	9.32191E-001	9.26288E-001	0.00000E+000	1.24355E-006	1.24355E-006	0.00000E+000	0.00000E+000	1.14074E-006
Welders	8.30833E-001	9.44706E-002	2.62847E-001	0.00000E+000	3.48476E-001	3.48476E-001	0.00000E+000	1.38598E-006	1.38598E-006	0.00000E+000	0.00000E+000	1.37813E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		

Yes	Clean Paved Road	% PM Reduction	0.00				
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Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.15	0.04	0.15	0.04	0.00	0.00
Grading	Fugitive Dust	0.08	0.04	0.03	0.01	0.61	0.61
Grading	Roads	0.12	0.03	0.12	0.03	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	71.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.76	10.76	10.72	10.75	10.76
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.12	3.70	2.63	4.61	4.30	4.31	0.00	4.61	4.61	3.85	0.00	4.61
Natural Gas	16.94	16.91	16.91	17.27	16.91	16.91	0.00	16.91	16.91	17.23	16.96	16.91
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	15.00	19.37	18.78	15.00	15.08	17.72
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.08	0.29		
Yes	Land Use	Improve Walkability Design	-0.11	2.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
Yes	Neighborhood Enhancements	Provide Traffic Calming Measures	0.75	100.00	50.00	
No	Neighborhood Enhancements	Implement NEV Network	0.01			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.05			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.05			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.05		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	71.00
Yes	Use Low VOC Paint (Residential Exterior)	71.00
Yes	Use Low VOC Paint (Non-residential Interior)	71.00
Yes	Use Low VOC Paint (Non-residential Exterior)	71.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	20.00	
Yes	Install High Efficiency Lighting	16.00	
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher	15.00
Fan	50.00
Refrigerator	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	15.00	10.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	20.00	Room	0.18	8,000.00	0
User Defined Recreational	135.00	User Defined Unit	4.02	175,242.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	29,040.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	175,242.00
tblLandUse	LotAcreage	0.67	0.18
tblLandUse	LotAcreage	0.00	4.02
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.782 9	0.1894	1,537.972 3	15.6281	0.0000	1,866.163 3
Energy	0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.149 1	2,163.149 1	0.0415	0.0397	2,176.313 7
Mobile	5.0446	9.0164	41.4397	0.0517	3.6323	0.0986	3.7310	0.9713	0.0905	1.0618		4,545.547 5	4,545.547 5	0.2351		4,550.484 4
Total	40.2091	12.2782	163.2834	0.2709	3.6323	16.1766	19.8089	0.9713	16.1685	17.1398	1,537.782 9	6,708.886 1	8,246.669 0	15.9047	0.0397	8,592.961 4

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	lb/day										lb/day					
Area	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950
Energy	0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.005 8	1,800.005 8	0.0345	0.0330	1,810.960 3
Mobile	4.9924	8.6847	40.4158	0.0493	3.4546	0.0944	3.5491	0.9238	0.0866	1.0104		4,336.019 9	4,336.019 9	0.2261		4,340.768 4
Total	11.2247	10.1854	41.7756	0.0583	3.4546	0.2089	3.6636	0.9238	0.2012	1.1250	0.0000	6,136.215 1	6,136.215 1	0.2609	0.0330	6,151.923 7

	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	72.08	17.04	74.42	78.46	4.89	98.71	81.51	4.89	98.76	93.44	100.00	8.54	25.59	98.36	16.79	28.41

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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	lb/day										lb/day					
Fugitive Dust					19.8161	0.0000	19.8161	10.1196	0.0000	10.1196			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	19.8161	3.0883	22.9044	10.1196	2.8412	12.9608		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.2 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291
Total	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291

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	lb/day										lb/day					
Fugitive Dust					7.7283	0.0000	7.7283	3.9467	0.0000	3.9467			0.0000			0.0000
Off-Road	0.9515	19.4584	23.4003	0.0391		0.1442	0.1442		0.1442	0.1442	0.0000	4,111.7444	4,111.7444	1.2275		4,137.5224
Total	0.9515	19.4584	23.4003	0.0391	7.7283	0.1442	7.8724	3.9467	0.1442	4.0908	0.0000	4,111.7444	4,111.7444	1.2275		4,137.5224

3.2 Site Preparation - 2015

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	lb/day										lb/day					
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
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
Worker	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291
Total	0.1027	0.1497	1.3592	1.9400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		167.5980	167.5980	0.0110		167.8291

3.3 Grading - 2015

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	lb/day										lb/day					
Fugitive Dust					7.9554	0.0000	7.9554	3.5650	0.0000	3.5650			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341		3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	7.9554	2.3284	10.2837	3.5650	2.1421	5.7070		3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	21.3638	267.4461	220.4840	0.5422	12.5008	4.0375	16.5383	3.4206	3.7134	7.1340		55,088.1046	55,088.1046	0.4627		55,097.8203
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576
Total	21.4494	267.5708	221.6166	0.5438	12.6491	4.0387	16.6878	3.4599	3.7145	7.1745		55,227.7696	55,227.7696	0.4718		55,237.6779

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	lb/day										lb/day					
Fugitive Dust					3.1026	0.0000	3.1026	1.3903	0.0000	1.3903			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0298		0.1178	0.1178		0.1178	0.1178	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	0.7250	14.8148	20.3762	0.0298	3.1026	0.1178	3.2204	1.3903	0.1178	1.5082	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	21.3638	267.4461	220.4840	0.5422	12.5008	4.0375	16.5383	3.4206	3.7134	7.1340		55,088.1046	55,088.1046	0.4627		55,097.8203
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003		139.8576
Total	21.4494	267.5708	221.6166	0.5438	12.6491	4.0387	16.6878	3.4599	3.7145	7.1745		55,227.7696	55,227.7696	0.4718		55,237.6779

3.4 Building Construction - 2015

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	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.6974	4.2497	7.9516	7.8000e-003	0.2095	0.0672	0.2767	0.0598	0.0618	0.1216		783.0165	783.0165	7.8000e-003			783.1802
Worker	0.6675	0.9732	8.8346	0.0126	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,089.3871	1,089.3871	0.0715			1,090.8889
Total	1.3649	5.2229	16.7863	0.0204	1.3661	0.0771	1.4433	0.3666	0.0707	0.4373		1,872.4035	1,872.4035	0.0793			1,874.0691

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	lb/day										lb/day						
Off-Road	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.6974	4.2497	7.9516	7.8000e-003	0.2095	0.0672	0.2767	0.0598	0.0618	0.1216		783.0165	783.0165	7.8000e-003			783.1802
Worker	0.6675	0.9732	8.8346	0.0126	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,089.3871	1,089.3871	0.0715			1,090.8889
Total	1.3649	5.2229	16.7863	0.0204	1.3661	0.0771	1.4433	0.3666	0.0707	0.4373		1,872.4035	1,872.4035	0.0793			1,874.0691

3.5 Paving - 2015

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	lb/day										lb/day						
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day						
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
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576
Total	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day						
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
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
Worker	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576
Total	0.0856	0.1248	1.1327	1.6200e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		139.6650	139.6650	9.1700e-003			139.8576

3.5 Paving - 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	lb/day										lb/day						
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410
Total	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003			134.8410

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day					
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
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
Worker	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003		134.8410
Total	0.0728	0.1090	0.9722	1.6200e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		134.6699	134.6699	8.1500e-003		134.8410

3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	329.1058	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562
Total	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562

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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449
Total	328.7968	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562
Total	0.1116	0.1671	1.4907	2.4800e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		206.4938	206.4938	0.0125			206.7562

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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	lb/day										lb/day					
Unmitigated	5.0446	9.0164	41.4397	0.0517	3.6323	0.0986	3.7310	0.9713	0.0905	1.0618		4,545.5475	4,545.5475	0.2351		4,550.4844
Mitigated	4.9924	8.6847	40.4158	0.0493	3.4546	0.0944	3.5491	0.9238	0.0866	1.0104		4,336.0199	4,336.0199	0.2261		4,340.7684

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	163.40	163.80	163.80	263,468	250,578
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	364.50	364.50	364.50	587,312	558,579
Total	1,229.33	1,230.24	1,228.93	1,709,338	1,625,711

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.0058	1,800.0058	0.0345	0.0330	1,810.9603
NaturalGas Unmitigated	0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.1491	2,163.1491	0.0415	0.0397	2,176.3137

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	lb/day										lb/day					
Convenience Market (24 Hour)	13.6438	1.5000e-004	1.3400e-003	1.1200e-003	1.0000e-005		1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004	1.0000e-004		1.6052	1.6052	3.0000e-005	3.0000e-005	1.6149
General Light Industry	750.959	8.1000e-003	0.0736	0.0618	4.4000e-004		5.6000e-003	5.6000e-003	5.6000e-003	5.6000e-003	5.6000e-003		88.3481	88.3481	1.6900e-003	1.6200e-003	88.8858
General Office Building	745.414	8.0400e-003	0.0731	0.0614	4.4000e-004		5.5500e-003	5.5500e-003	5.5500e-003	5.5500e-003	5.5500e-003		87.6957	87.6957	1.6800e-003	1.6100e-003	88.2294
High Turnover (Sit Down Restaurant)	1734.58	0.0187	0.1701	0.1429	1.0200e-003		0.0129	0.0129	0.0129	0.0129	0.0129		204.0677	204.0677	3.9100e-003	3.7400e-003	205.3096
Hotel	1016.55	0.0110	0.0997	0.0837	6.0000e-004		7.5700e-003	7.5700e-003	7.5700e-003	7.5700e-003	7.5700e-003		119.5939	119.5939	2.2900e-003	2.1900e-003	120.3217
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004	7.2000e-004	7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
User Defined Recreational	14029	0.1513	1.3754	1.1553	8.2500e-003		0.1045	0.1045	0.1045	0.1045	0.1045		1,650.4662	1,650.4662	0.0316	0.0303	1,660.5106
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.1492	2,163.1492	0.0415	0.0397	2,176.3137

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	0.0109151	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		1.2841	1.2841	2.0000e-005	2.0000e-005	1.2919
General Light Industry	0.637315	6.8700e-003	0.0625	0.0525	3.7000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		74.9782	74.9782	1.4400e-003	1.3700e-003	75.4346
General Office Building	0.59685	6.4400e-003	0.0585	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003		70.2177	70.2177	1.3500e-003	1.2900e-003	70.6450
High Turnover (Sit Down Restaurant)	1.63008	0.0176	0.1598	0.1342	9.6000e-004		0.0122	0.0122		0.0122	0.0122		191.7737	191.7737	3.6800e-003	3.5200e-003	192.9408
Hotel	0.83406	8.9900e-003	0.0818	0.0687	4.9000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003		98.1247	98.1247	1.8800e-003	1.8000e-003	98.7219
Single Family Housing	0.0805527	8.7000e-004	7.4200e-003	3.1600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4768	9.4768	1.8000e-004	1.7000e-004	9.5345
User Defined Recreational	11.5103	0.1241	1.1285	0.9479	6.7700e-003		0.0858	0.0858		0.0858	0.0858		1,354.1504	1,354.1504	0.0260	0.0248	1,362.3916
City Park	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
Total		0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.0058	1,800.0058	0.0345	0.0330	1,810.9603

6.0 Area Detail

6.1 Mitigation Measures Area

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

	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	lb/day										lb/day					
Unmitigated	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1894	1,537.9723	15.6281	0.0000	1,866.1633
Mitigated	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950

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	lb/day										lb/day					
Architectural Coating	1.8013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.6093	1.4586	120.2305	0.2084		15.9404	15.9404		15.9404	15.9404	1,537.7829	0.0000	1,537.7829	15.6279	0.0000	1,865.9683
Landscaping	4.5400e-003	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.1894	0.1894	2.7000e-004		0.1950
Total	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1894	1,537.9723	15.6282	0.0000	1,866.1633

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5400e-003	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.1894	0.1894	2.7000e-004		0.1950
Total	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	20.00	Room	0.18	8,000.00	0
User Defined Recreational	135.00	User Defined Unit	4.02	175,242.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	29,040.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	175,242.00
tblLandUse	LotAcreage	0.67	0.18
tblLandUse	LotAcreage	0.00	4.02
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	lb/day										lb/day					
Area	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.782 9	0.1894	1,537.972 3	15.6281	0.0000	1,866.163 3
Energy	0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.149 1	2,163.149 1	0.0415	0.0397	2,176.313 7
Mobile	4.5488	8.5161	35.3681	0.0535	3.6323	0.0976	3.7300	0.9713	0.0896	1.0609		4,704.284 4	4,704.284 4	0.2348		4,709.215 7
Total	39.7133	11.7779	157.2118	0.2727	3.6323	16.1756	19.8079	0.9713	16.1675	17.1388	1,537.782 9	6,867.623 0	8,405.405 9	15.9044	0.0397	8,751.692 7

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	lb/day										lb/day					
Area	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950
Energy	0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.005 8	1,800.005 8	0.0345	0.0330	1,810.960 3
Mobile	4.4971	8.2036	34.3138	0.0510	3.4546	0.0934	3.5480	0.9238	0.0857	1.0095		4,487.462 4	4,487.462 4	0.2259		4,492.205 3
Total	10.7294	9.7043	35.6735	0.0600	3.4546	0.2079	3.6626	0.9238	0.2002	1.1240	0.0000	6,287.657 6	6,287.657 6	0.2606	0.0330	6,303.360 7

	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	72.98	17.61	77.31	77.99	4.89	98.71	81.51	4.89	98.76	93.44	100.00	8.44	25.20	98.36	16.79	27.98

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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	lb/day										lb/day					
Fugitive Dust					19.8161	0.0000	19.8161	10.1196	0.0000	10.1196			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.744 4	4,111.744 4	1.2275		4,137.522 5
Total	5.2609	56.8897	42.6318	0.0391	19.8161	3.0883	22.9044	10.1196	2.8412	12.9608		4,111.744 4	4,111.744 4	1.2275		4,137.522 5

3.2 Site Preparation - 2015

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	lb/day										lb/day						
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
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
Worker	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497
Total	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497

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	lb/day										lb/day						
Fugitive Dust					7.7283	0.0000	7.7283	3.9467	0.0000	3.9467			0.0000			0.0000	
Off-Road	0.9515	19.4584	23.4003	0.0391		0.1442	0.1442		0.1442	0.1442	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224
Total	0.9515	19.4584	23.4003	0.0391	7.7283	0.1442	7.8724	3.9467	0.1442	4.0908	0.0000	4,111.7444	4,111.7444	1.2275			4,137.5224

3.2 Site Preparation - 2015

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	lb/day										lb/day						
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
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
Worker	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497
Total	0.0950	0.1322	1.3302	2.0400e-003	0.1780	1.5200e-003	0.1795	0.0472	1.3700e-003	0.0486		175.7186	175.7186	0.0110			175.9497

3.3 Grading - 2015

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	lb/day										lb/day						
Fugitive Dust					7.9554	0.0000	7.9554	3.5650	0.0000	3.5650			0.0000				0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421		3,129.0158	3,129.0158	0.9341			3,148.6328
Total	3.8327	40.4161	26.6731	0.0298	7.9554	2.3284	10.2837	3.5650	2.1421	5.7070		3,129.0158	3,129.0158	0.9341			3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	18.4720	261.3530	163.2259	0.5425	12.5008	4.0192	16.5200	3.4206	3.6966	7.1172		55,215.9138	55,215.9138	0.4572		55,225.5147
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	18.5511	261.4632	164.3344	0.5442	12.6491	4.0205	16.6696	3.4599	3.6977	7.1576		55,362.3460	55,362.3460	0.4664		55,372.1394

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	lb/day										lb/day					
Fugitive Dust					3.1026	0.0000	3.1026	1.3903	0.0000	1.3903			0.0000			0.0000
Off-Road	0.7250	14.8148	20.3762	0.0298		0.1178	0.1178		0.1178	0.1178	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328
Total	0.7250	14.8148	20.3762	0.0298	3.1026	0.1178	3.2204	1.3903	0.1178	1.5082	0.0000	3,129.0158	3,129.0158	0.9341		3,148.6328

3.3 Grading - 2015

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	lb/day										lb/day					
Hauling	18.4720	261.3530	163.2259	0.5425	12.5008	4.0192	16.5200	3.4206	3.6966	7.1172		55,215.9138	55,215.9138	0.4572		55,225.5147
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	18.5511	261.4632	164.3344	0.5442	12.6491	4.0205	16.6696	3.4599	3.6977	7.1576		55,362.3460	55,362.3460	0.4664		55,372.1394

3.4 Building Construction - 2015

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	lb/day										lb/day					
Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.5661	4.1833	5.5284	7.8400e-003	0.2095	0.0660	0.2754	0.0598	0.0606	0.1204		791.4489	791.4489	7.5600e-003			791.6077
Worker	0.6174	0.8595	8.6464	0.0132	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,142.1709	1,142.1709	0.0715			1,143.6728
Total	1.1834	5.0429	14.1748	0.0211	1.3661	0.0759	1.4420	0.3666	0.0695	0.4361		1,933.6198	1,933.6198	0.0791			1,935.2804

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	lb/day										lb/day						
Off-Road	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483
Total	0.6712	14.1741	17.8156	0.0268		0.4011	0.4011		0.4011	0.4011	0.0000	2,689.5771	2,689.5771	0.6748			2,703.7483

3.4 Building Construction - 2015

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	lb/day										lb/day						
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
Vendor	0.5661	4.1833	5.5284	7.8400e-003	0.2095	0.0660	0.2754	0.0598	0.0606	0.1204		791.4489	791.4489	7.5600e-003			791.6077
Worker	0.6174	0.8595	8.6464	0.0132	1.1567	9.9000e-003	1.1666	0.3068	8.9100e-003	0.3157		1,142.1709	1,142.1709	0.0715			1,143.6728
Total	1.1834	5.0429	14.1748	0.0211	1.3661	0.0759	1.4420	0.3666	0.0695	0.4361		1,933.6198	1,933.6198	0.0791			1,935.2804

3.5 Paving - 2015

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	lb/day										lb/day						
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986			2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day					
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
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247
Total	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003		146.6247

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	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,339.8984	2,339.8984	0.6986		2,354.5681

3.5 Paving - 2015

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	lb/day										lb/day						
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
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
Worker	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003			146.6247
Total	0.0792	0.1102	1.1085	1.7000e-003	0.1483	1.2700e-003	0.1496	0.0393	1.1400e-003	0.0405		146.4322	146.4322	9.1700e-003			146.6247

3.5 Paving - 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	lb/day										lb/day						
Off-Road	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0898	22.3859	14.8176	0.0223		1.2610	1.2610		1.1601	1.1601		2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866
Total	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866

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	lb/day										lb/day						
Off-Road	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.5490	11.0645	16.9276	0.0223		0.0897	0.0897		0.0897	0.0897	0.0000	2,316.3767	2,316.3767	0.6987			2,331.0495

3.5 Paving - 2016

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	lb/day										lb/day						
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
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
Worker	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866
Total	0.0677	0.0962	0.9587	1.6900e-003	0.1483	1.1600e-003	0.1495	0.0393	1.0500e-003	0.0404		141.2155	141.2155	8.1500e-003			141.3866

3.6 Architectural Coating - 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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449
Total	329.1058	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day						
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
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
Worker	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929
Total	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125			216.7929

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	lb/day										lb/day						
Archit. Coating	328.7374					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449
Total	328.7968	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0332			282.1449

3.6 Architectural Coating - 2016

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	lb/day										lb/day					
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
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
Worker	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125		216.7929
Total	0.1038	0.1475	1.4700	2.6000e-003	0.2274	1.7800e-003	0.2292	0.0603	1.6200e-003	0.0619		216.5305	216.5305	0.0125		216.7929

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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	lb/day										lb/day					
Unmitigated	4.5488	8.5161	35.3681	0.0535	3.6323	0.0976	3.7300	0.9713	0.0896	1.0609		4,704.284 4	4,704.284 4	0.2348		4,709,215 7
Mitigated	4.4971	8.2036	34.3138	0.0510	3.4546	0.0934	3.5480	0.9238	0.0857	1.0095		4,487.462 4	4,487.462 4	0.2259		4,492,205 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	163.40	163.80	163.80	263,468	250,578
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	364.50	364.50	364.50	587,312	558,579
Total	1,229.33	1,230.24	1,228.93	1,709,338	1,625,711

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.0058	1,800.0058	0.0345	0.0330	1,810.9603
NaturalGas Unmitigated	0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.1491	2,163.1491	0.0415	0.0397	2,176.3137

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	lb/day										lb/day					
Convenience Market (24 Hour)	13.6438	1.5000e-004	1.3400e-003	1.1200e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6052	1.6052	3.0000e-005	3.0000e-005	1.6149
General Light Industry	750.959	8.1000e-003	0.0736	0.0618	4.4000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003		88.3481	88.3481	1.6900e-003	1.6200e-003	88.8858
General Office Building	745.414	8.0400e-003	0.0731	0.0614	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003		87.6957	87.6957	1.6800e-003	1.6100e-003	88.2294
High Turnover (Sit Down Restaurant)	1734.58	0.0187	0.1701	0.1429	1.0200e-003		0.0129	0.0129		0.0129	0.0129		204.0677	204.0677	3.9100e-003	3.7400e-003	205.3096
Hotel	1016.55	0.0110	0.0997	0.0837	6.0000e-004		7.5700e-003	7.5700e-003		7.5700e-003	7.5700e-003		119.5939	119.5939	2.2900e-003	2.1900e-003	120.3217
Single Family Housing	96.6656	1.0400e-003	8.9100e-003	3.7900e-003	6.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004		11.3724	11.3724	2.2000e-004	2.1000e-004	11.4416
User Defined Recreational	14029	0.1513	1.3754	1.1553	8.2500e-003		0.1045	0.1045		0.1045	0.1045		1,650.4662	1,650.4662	0.0316	0.0303	1,660.5106
City Park	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
Total		0.1983	1.8021	1.5100	0.0108		0.1370	0.1370		0.1370	0.1370		2,163.1492	2,163.1492	0.0415	0.0397	2,176.3137

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	0.0109151	1.2000e-004	1.0700e-003	9.0000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		1.2841	1.2841	2.0000e-005	2.0000e-005	1.2919
General Light Industry	0.637315	6.8700e-003	0.0625	0.0525	3.7000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		74.9782	74.9782	1.4400e-003	1.3700e-003	75.4346
General Office Building	0.59685	6.4400e-003	0.0585	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003		70.2177	70.2177	1.3500e-003	1.2900e-003	70.6450
High Turnover (Sit Down Restaurant)	1.63008	0.0176	0.1598	0.1342	9.6000e-004		0.0122	0.0122		0.0122	0.0122		191.7737	191.7737	3.6800e-003	3.5200e-003	192.9408
Hotel	0.83406	8.9900e-003	0.0818	0.0687	4.9000e-004		6.2100e-003	6.2100e-003		6.2100e-003	6.2100e-003		98.1247	98.1247	1.8800e-003	1.8000e-003	98.7219
Single Family Housing	0.0805527	8.7000e-004	7.4200e-003	3.1600e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4768	9.4768	1.8000e-004	1.7000e-004	9.5345
User Defined Recreational	11.5103	0.1241	1.1285	0.9479	6.7700e-003		0.0858	0.0858		0.0858	0.0858		1,354.1504	1,354.1504	0.0260	0.0248	1,362.3916
City Park	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
Total		0.1650	1.4995	1.2565	9.0000e-003		0.1140	0.1140		0.1140	0.1140		1,800.0058	1,800.0058	0.0345	0.0330	1,810.9603

6.0 Area Detail

6.1 Mitigation Measures Area

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

	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	lb/day										lb/day					
Unmitigated	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1894	1,537.9723	15.6281	0.0000	1,866.1633
Mitigated	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950

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	lb/day										lb/day					
Architectural Coating	1.8013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.6093	1.4586	120.2305	0.2084		15.9404	15.9404		15.9404	15.9404	1,537.7829	0.0000	1,537.7829	15.6279	0.0000	1,865.9683
Landscaping	4.5400e-003	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.1894	0.1894	2.7000e-004		0.1950
Total	34.9663	1.4598	120.3337	0.2084		15.9410	15.9410		15.9410	15.9410	1,537.7829	0.1894	1,537.9723	15.6282	0.0000	1,866.1633

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.5512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.5400e-003	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004		0.1894	0.1894	2.7000e-004		0.1950
Total	6.0673	1.1700e-003	0.1032	1.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	0.1894	0.1894	2.7000e-004	0.0000	0.1950

7.0 Water Detail

7.1 Mitigation Measures Water

- Apply Water Conservation Strategy
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.80	1000sqft	0.36	15,800.00	0
General Light Industry	10.00	1000sqft	0.23	10,000.00	0
City Park	1.00	Acre	1.00	43,560.00	0
High Turnover (Sit Down Restaurant)	3.00	1000sqft	0.07	3,000.00	0
Hotel	20.00	Room	0.18	8,000.00	0
User Defined Recreational	135.00	User Defined Unit	4.02	175,242.00	0
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	3
Convenience Market (24 Hour)	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4			Operational Year	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Area for hotel units and user defined recreational based on site plan.

Demolition -

Grading - Acres disturbed based on limits of grading identified in Preliminary Grading Plan (2014).

Vehicle Trips - Trip generation based on Transportation Impact Study (CCTC 2014). User defined recreation (campsites) trip rates and % - applied same default rates as hotel use.

Woodstoves - Assume worst-case scenario: conventional woodstoves in hotel/motel units (31).

Energy Use - RV sites estimated to use similar energy use as hotel use. Approximately 63% of the user defined recreationa use (campsites) are RV spots.

Water And Wastewater - Water use per campsite is conservatively estimated at 120 gallons per campsite, per day.

Solid Waste - Solid waste generation for user defined recreational (RV and campsites) is estimated to be similar to hotel uses.

Construction Off-road Equipment Mitigation - Assume Tier 2 engines and Level 3 diesel particulate filters on noted equipment.

Mobile Land Use Mitigation -

Area Mitigation - Use of low VOC architectural coatings, per Green Standard.

Water Mitigation -

Waste Mitigation -

Architectural Coating -

Area Coating - Use of low VOC architectural coatings per Green Standards, as proposed by the project.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	71
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	71
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblEnergyUse	LightingElect	0.00	1.71
tblEnergyUse	NT24E	0.00	2.03
tblEnergyUse	NT24NG	0.00	2.99
tblEnergyUse	T24E	0.00	1.58
tblEnergyUse	T24NG	0.00	26.23
tblGrading	AcresOfGrading	10.00	16.50
tblGrading	AcresOfGrading	0.00	16.50
tblGrading	MaterialExported	0.00	72,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	29,040.00	8,000.00
tblLandUse	LandUseSquareFeet	0.00	175,242.00
tblLandUse	LotAcreage	0.67	0.18
tblLandUse	LotAcreage	0.00	4.02
tblProjectCharacteristics	OperationalYear	2014	2016
tblSolidWaste	SolidWasteGenerationRate	0.00	16.97
tblTripsAndVMT	HaulingTripNumber	9,000.00	14,375.00
tblVehicleTrips	CC_TTP	0.00	61.60
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	19.40
tblVehicleTrips	DV_TP	0.00	38.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	58.00
tblVehicleTrips	ST_TR	1.59	2.00
tblVehicleTrips	ST_TR	863.10	134.50
tblVehicleTrips	ST_TR	1.32	3.00
tblVehicleTrips	ST_TR	2.37	11.01
tblVehicleTrips	ST_TR	158.37	72.30

tblVehicleTrips	ST_TR	0.00	2.70
tblVehicleTrips	SU_TR	1.59	2.00
tblVehicleTrips	SU_TR	758.45	134.50
tblVehicleTrips	SU_TR	0.68	3.00
tblVehicleTrips	SU_TR	0.98	11.01
tblVehicleTrips	SU_TR	131.84	72.30
tblVehicleTrips	SU_TR	5.95	8.19
tblVehicleTrips	SU_TR	0.00	2.70
tblVehicleTrips	WD_TR	1.59	2.00
tblVehicleTrips	WD_TR	737.99	134.50
tblVehicleTrips	WD_TR	6.97	3.00
tblVehicleTrips	WD_TR	127.15	72.30
tblVehicleTrips	WD_TR	0.00	2.70
tblWater	IndoorWaterUseRate	0.00	43,800.00
tblWoodstoves	NumberConventional	0.00	31.00

2.0 Emissions Summary

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	2.1709	0.0440	3.6239	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0284	41.8800	0.4254	0.0000	50.8125
Energy	0.0362	0.3289	0.2756	1.9700e-003		0.0250	0.0250		0.0250	0.0250	0.0000	804.6386	804.6386	0.0271	0.0107	808.5370
Mobile	0.8498	1.6337	7.0836	9.4400e-003	0.6433	0.0178	0.6611	0.1724	0.0163	0.1887	0.0000	753.8134	753.8134	0.0387	0.0000	754.6262
Waste						0.0000	0.0000		0.0000	0.0000	21.1232	0.0000	21.1232	1.2484	0.0000	47.3385
Water						0.0000	0.0000		0.0000	0.0000	2.2445	14.3846	16.6291	0.2312	5.5800e-003	23.2130
Total	3.0569	2.0066	10.9831	0.0177	0.6433	0.5211	1.1644	0.1724	0.5196	0.6920	65.2193	1,572.8649	1,638.0842	1.9706	0.0163	1,684.5273

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1072	1.9000e-004	0.0170	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0284	0.0284	4.0000e-005	0.0000	0.0292
Energy	0.0301	0.2737	0.2293	1.6400e-003		0.0208	0.0208		0.0208	0.0208	0.0000	696.5855	696.5855	0.0237	9.1900e-003	699.9335
Mobile	0.8404	1.5735	6.8984	9.0100e-003	0.6119	0.0170	0.6289	0.1640	0.0156	0.1796	0.0000	719.0980	719.0980	0.0372	0.0000	719.8798
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	1.9078	11.5987	13.5065	0.1965	4.7400e-003	19.1004
Total	1.9777	1.8473	7.1447	0.0107	0.6119	0.0379	0.6498	0.1640	0.0365	0.2005	1.9078	1,427.3105	1,429.2183	0.2575	0.0139	1,438.9429

	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	35.30	7.94	34.95	39.69	4.89	92.72	44.20	4.90	92.97	71.03	97.07	9.25	12.75	86.93	14.64	14.58

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	0.0000
Total	0.0000

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	1/1/2015	1/14/2015	5	10	
2	Grading	Grading	1/15/2015	2/11/2015	5	20	
3	Building Construction	Building Construction	2/12/2015	12/30/2015	5	230	
4	Paving	Paving	12/31/2015	1/27/2016	5	20	
5	Architectural Coating	Architectural Coating	1/28/2016	2/24/2016	5	20	

Acres of Grading (Site Preparation Phase): 16.5

Acres of Grading (Grading Phase): 16.5

Acres of Paving: 0

Residential Indoor: 3,645; Residential Outdoor: 1,215; Non-Residential Indoor: 421,905; Non-Residential Outdoor: 140,635 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	14,375.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	117.00	46.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	13.00	5.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Preparation - 2015

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					0.0991	0.0000	0.0991	0.0506	0.0000	0.0506	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0991	0.0154	0.1145	0.0506	0.0142	0.0648	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675

3.2 Site Preparation - 2015

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	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674
Total	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674

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					0.0386	0.0000	0.0386	0.0197	0.0000	0.0197	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0973	0.1170	2.0000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	4.7600e-003	0.0973	0.1170	2.0000e-004	0.0386	7.2000e-004	0.0394	0.0197	7.2000e-004	0.0205	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675

3.2 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674
Total	4.8000e-004	7.4000e-004	6.6600e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7663	0.7663	5.0000e-005	0.0000	0.7674

3.3 Grading - 2015

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					0.0796	0.0000	0.0796	0.0357	0.0000	0.0357	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0383	0.4042	0.2667	3.0000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	28.3860	28.3860	8.4700e-003	0.0000	28.5639
Total	0.0383	0.4042	0.2667	3.0000e-004	0.0796	0.0233	0.1028	0.0357	0.0214	0.0571	0.0000	28.3860	28.3860	8.4700e-003	0.0000	28.5639

3.3 Grading - 2015

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	0.2012	2.6969	1.9877	5.4300e-003	0.1221	0.0403	0.1624	0.0335	0.0370	0.0705	0.0000	500.4234	500.4234	4.1700e-003	0.0000	500.5109
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	8.0000e-004	1.2300e-003	0.0111	2.0000e-005	1.4400e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	4.0000e-004	0.0000	1.2772	1.2772	8.0000e-005	0.0000	1.2790
Total	0.2020	2.6982	1.9988	5.4500e-003	0.1236	0.0403	0.1639	0.0339	0.0371	0.0709	0.0000	501.7006	501.7006	4.2500e-003	0.0000	501.7899

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					0.0310	0.0000	0.0310	0.0139	0.0000	0.0139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2500e-003	0.1482	0.2038	3.0000e-004		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	28.3859	28.3859	8.4700e-003	0.0000	28.5639
Total	7.2500e-003	0.1482	0.2038	3.0000e-004	0.0310	1.1800e-003	0.0322	0.0139	1.1800e-003	0.0151	0.0000	28.3859	28.3859	8.4700e-003	0.0000	28.5639

3.3 Grading - 2015

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	0.2012	2.6969	1.9877	5.4300e-003	0.1221	0.0403	0.1624	0.0335	0.0370	0.0705	0.0000	500.4234	500.4234	4.1700e-003	0.0000	500.5109
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	8.0000e-004	1.2300e-003	0.0111	2.0000e-005	1.4400e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	4.0000e-004	0.0000	1.2772	1.2772	8.0000e-005	0.0000	1.2790
Total	0.2020	2.6982	1.9988	5.4500e-003	0.1236	0.0403	0.1639	0.0339	0.0371	0.0709	0.0000	501.7006	501.7006	4.2500e-003	0.0000	501.7899

3.4 Building Construction - 2015

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	0.4208	3.4534	2.1556	3.0800e-003		0.2434	0.2434		0.2289	0.2289	0.0000	280.5935	280.5935	0.0704	0.0000	282.0719
Total	0.4208	3.4534	2.1556	3.0800e-003		0.2434	0.2434		0.2289	0.2289	0.0000	280.5935	280.5935	0.0704	0.0000	282.0719

3.4 Building Construction - 2015

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	0.0735	0.4938	0.8080	9.0000e-004	0.0236	7.6500e-003	0.0312	6.7500e-003	7.0300e-003	0.0138	0.0000	82.1994	82.1994	8.0000e-004	0.0000	82.2162
Worker	0.0719	0.1101	0.9952	1.4600e-003	0.1295	1.1400e-003	0.1307	0.0344	1.0200e-003	0.0355	0.0000	114.5661	114.5661	7.4600e-003	0.0000	114.7227
Total	0.1454	0.6039	1.8031	2.3600e-003	0.1531	8.7900e-003	0.1619	0.0412	8.0500e-003	0.0492	0.0000	196.7655	196.7655	8.2600e-003	0.0000	196.9389

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	0.0772	1.6300	2.0488	3.0800e-003		0.0461	0.0461		0.0461	0.0461	0.0000	280.5932	280.5932	0.0704	0.0000	282.0716
Total	0.0772	1.6300	2.0488	3.0800e-003		0.0461	0.0461		0.0461	0.0461	0.0000	280.5932	280.5932	0.0704	0.0000	282.0716

3.4 Building Construction - 2015**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	0.0735	0.4938	0.8080	9.0000e-004	0.0236	7.6500e-003	0.0312	6.7500e-003	7.0300e-003	0.0138	0.0000	82.1994	82.1994	8.0000e-004	0.0000	82.2162
Worker	0.0719	0.1101	0.9952	1.4600e-003	0.1295	1.1400e-003	0.1307	0.0344	1.0200e-003	0.0355	0.0000	114.5661	114.5661	7.4600e-003	0.0000	114.7227
Total	0.1454	0.6039	1.8031	2.3600e-003	0.1531	8.7900e-003	0.1619	0.0412	8.0500e-003	0.0492	0.0000	196.7655	196.7655	8.2600e-003	0.0000	196.9389

3.5 Paving - 2015**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	1.1600e-003	0.0126	7.4900e-003	1.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.1600e-003	0.0126	7.4900e-003	1.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680

3.5 Paving - 2015

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	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640
Total	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640

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	2.7000e-004	5.5300e-003	8.4600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7000e-004	5.5300e-003	8.4600e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.0614	1.0614	3.2000e-004	0.0000	1.0680

3.5 Paving - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640
Total	4.0000e-005	6.0000e-005	5.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0639	0.0639	0.0000	0.0000	0.0640

3.5 Paving - 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	0.0199	0.2127	0.1408	2.1000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0199	0.2127	0.1408	2.1000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896

3.5 Paving - 2016

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	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715
Total	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715

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	5.2200e-003	0.1051	0.1608	2.1000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.2200e-003	0.1051	0.1608	2.1000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	19.9631	19.9631	6.0200e-003	0.0000	20.0896

3.5 Paving - 2016

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	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715
Total	6.5000e-004	1.0200e-003	9.0700e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1700	1.1700	7.0000e-005	0.0000	1.1715

3.6 Architectural Coating - 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					
Archit. Coating	3.2874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	3.2911	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596

3.6 Architectural Coating - 2016

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	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908
Total	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908

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	3.2874					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596
Total	3.2880	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	3.0000e-004	0.0000	2.5596

3.6 Architectural Coating - 2016

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	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908
Total	1.0500e-003	1.6400e-003	0.0146	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	2.0000e-005	6.0000e-004	0.0000	1.8884	1.8884	1.1000e-004	0.0000	1.8908

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Walkability Design

Improve Pedestrian Network

Provide Traffic Calming Measures

	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					
Unmitigated	0.8498	1.6337	7.0836	9.4400e-003	0.6433	0.0178	0.6611	0.1724	0.0163	0.1887	0.0000	753.8134	753.8134	0.0387	0.0000	754.6262
Mitigated	0.8404	1.5735	6.8984	9.0100e-003	0.6119	0.0170	0.6289	0.1640	0.0156	0.1796	0.0000	719.0980	719.0980	0.0372	0.0000	719.8798

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.00	2.00	2.00	4,065	3,866
Convenience Market (24 Hour)	269.00	269.00	269.00	143,788	136,753
General Light Industry	30.00	30.00	30.00	99,011	94,167
General Office Building	173.96	173.96	173.96	395,735	376,375
High Turnover (Sit Down Restaurant)	216.90	216.90	216.90	191,742	182,361
Hotel	163.40	163.80	163.80	263,468	250,578
Single Family Housing	9.57	10.08	8.77	24,217	23,033
User Defined Recreational	364.50	364.50	364.50	587,312	558,579
Total	1,229.33	1,230.24	1,228.93	1,709,338	1,625,711

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	13.00	5.00	5.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	13.00	5.00	5.00	0.90	80.10	19.00	24	15	61
General Light Industry	13.00	5.00	5.00	59.00	28.00	13.00	92	5	3
General Office Building	13.00	5.00	5.00	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	13.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Hotel	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4
Single Family Housing	13.00	5.00	5.00	35.80	21.00	43.20	86	11	3
User Defined Recreational	13.00	5.00	5.00	19.40	61.60	19.00	58	38	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.455937	0.042338	0.214948	0.150714	0.068093	0.009944	0.017510	0.022507	0.002330	0.001401	0.008743	0.000855	0.004680

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	0.0301	0.2737	0.2293	1.6400e-003		0.0208	0.0208		0.0208	0.0208	0.0000	298.0111	298.0111	5.7100e-003	5.4600e-003	299.8248
NaturalGas Unmitigated	0.0362	0.3289	0.2756	1.9700e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.1336	358.1336	6.8600e-003	6.5700e-003	360.3131
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	398.5743	398.5743	0.0180	3.7300e-003	400.1087
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	446.5050	446.5050	0.0202	4.1800e-003	448.2239

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					
City Park	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
Convenience Market (24 Hour)	4980	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2658	0.2658	1.0000e-005	0.0000	0.2674
General Light Industry	274100	1.4800e-003	0.0134	0.0113	8.0000e-005		1.0200e-003	1.0200e-003		1.0200e-003	1.0200e-003	0.0000	14.6270	14.6270	2.8000e-004	2.7000e-004	14.7160
General Office Building	272076	1.4700e-003	0.0133	0.0112	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.5190	14.5190	2.8000e-004	2.7000e-004	14.6074
High Turnover (Sit Down Restaurant)	633120	3.4100e-003	0.0310	0.0261	1.9000e-004		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	33.7857	33.7857	6.5000e-004	6.2000e-004	33.9913
Hotel	371040	2.0000e-003	0.0182	0.0153	1.1000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	19.8001	19.8001	3.8000e-004	3.6000e-004	19.9206
Single Family Housing	35283	1.9000e-004	1.6300e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8828	1.8828	4.0000e-005	3.0000e-005	1.8943
User Defined Recreational	5.12057e+006	0.0276	0.2510	0.2109	1.5100e-003		0.0191	0.0191		0.0191	0.0191	0.0000	273.2532	273.2532	5.2400e-003	5.0100e-003	274.9162
Total		0.0362	0.3289	0.2756	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.1336	358.1336	6.8800e-003	6.5600e-003	360.3132

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market (24 Hour)	3984	2.0000e-005	2.0000e-004	1.6000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.2126	0.2126	0.0000	0.0000	0.2139
General Light Industry	232620	1.2500e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4135	12.4135	2.4000e-004	2.3000e-004	12.4890
General Office Building	217850	1.1700e-003	0.0107	8.9700e-003	6.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	11.6253	11.6253	2.2000e-004	2.1000e-004	11.6961
High Turnover (Sit Down Restaurant)	594978	3.2100e-003	0.0292	0.0245	1.7000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.7503	31.7503	6.1000e-004	5.8000e-004	31.9435
Hotel	304432	1.6400e-003	0.0149	0.0125	9.0000e-005		1.1300e-003	1.1300e-003		1.1300e-003	1.1300e-003	0.0000	16.2457	16.2457	3.1000e-004	3.0000e-004	16.3445
Single Family Housing	29401.7	1.6000e-004	1.3500e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5690	1.5690	3.0000e-005	3.0000e-005	1.5785
User Defined Recreational	4.20125e+006	0.0227	0.2059	0.1730	1.2400e-003		0.0157	0.0157		0.0157	0.0157	0.0000	224.1948	224.1948	4.3000e-003	4.1100e-003	225.5592
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0301	0.2737	0.2293	1.6400e-003		0.0208	0.0208		0.0208	0.0208	0.0000	298.0111	298.0111	5.7100e-003	5.4600e-003	299.8248

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	23380	6.8015	3.1000e-004	6.0000e-005	6.8277
General Light Industry	90300	26.2693	1.1900e-003	2.5000e-004	26.3704
General Office Building	311418	90.5951	4.1000e-003	8.5000e-004	90.9438
High Turnover (Sit Down Restaurant)	102870	29.9261	1.3500e-003	2.8000e-004	30.0413
Hotel	67520	19.6423	8.9000e-004	1.8000e-004	19.7180
Single Family Housing	7072.94	2.0576	9.0000e-005	2.0000e-005	2.0655
User Defined Recreational	932287	271.2131	0.0123	2.5400e-003	272.2572
Total		446.5050	0.0202	4.1800e-003	448.2239

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	20227.2	5.8843	2.7000e-004	6.0000e-005	5.9070
General Light Industry	81048	23.5778	1.0700e-003	2.2000e-004	23.6686
General Office Building	276696	80.4940	3.6400e-003	7.5000e-004	80.8039
High Turnover (Sit Down Restaurant)	96372	28.0357	1.2700e-003	2.6000e-004	28.1437
Hotel	60038.4	17.4659	7.9000e-004	1.6000e-004	17.5331
Single Family Housing	6741.8	1.9613	9.0000e-005	2.0000e-005	1.9688
User Defined Recreational	828965	241.1554	0.0109	2.2600e-003	242.0837
Total		398.5743	0.0180	3.7300e-003	400.1087

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use only Natural Gas Hearths

	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	1.1072	1.9000e-004	0.0170	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0284	0.0284	4.0000e-005	0.0000	0.0292
Unmitigated	2.1709	0.0440	3.6239	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0284	41.8800	0.4254	0.0000	50.8125

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	0.3287					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8283	0.0438	3.6069	6.2500e-003		0.4782	0.4782		0.4782	0.4782	41.8516	0.0000	41.8516	0.4253	0.0000	50.7833
Landscaping	7.5000e-004	1.9000e-004	0.0170	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0284	0.0284	4.0000e-005	0.0000	0.0292
Total	2.1709	0.0440	3.6239	6.2500e-003		0.4783	0.4783		0.4783	0.4783	41.8516	0.0284	41.8800	0.4254	0.0000	50.8125

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0934					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	1.9000e-004	0.0170	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0284	0.0284	4.0000e-005	0.0000	0.0292
Total	1.1072	1.9000e-004	0.0170	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0284	0.0284	4.0000e-005	0.0000	0.0292

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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			
Unmitigated	16.6291	0.2312	5.5800e-003	23.2130
Mitigated	13.5065	0.1965	4.7400e-003	19.1004

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.19148	1.2132	5.0000e-005	1.0000e-005	1.2178
Convenience Market (24 Hour)	0.148145 / 0.0907986	0.3727	4.8400e-003	1.2000e-004	0.5106
General Light Industry	2.3125 / 0	4.3738	0.0755	1.8100e-003	6.5218
General Office Building	2.80819 / 1.72115	7.0638	0.0918	2.2200e-003	9.6790
High Turnover (Sit Down Restaurant)	0.910601 / 0.0581235	1.7815	0.0297	7.1000e-004	2.6275
Hotel	0.78637 / 0.0873744	1.5763	0.0257	6.2000e-004	2.3071
Single Family Housing	0.065154 / 0.0410754	0.1651	2.1300e-003	5.0000e-005	0.2257
User Defined Recreational	0.0438 / 0	0.0828	1.4300e-003	3.0000e-005	0.1235
Total		16.6291	0.2312	5.5700e-003	23.2130

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.07233	1.0918	5.0000e-005	1.0000e-005	1.0960
Convenience Market (24 Hour)	0.125923 / 0.0817187	0.3048	4.1200e-003	1.0000e-004	0.4220
General Light Industry	1.96563 / 0	3.4593	0.0642	1.5400e-003	5.2841
General Office Building	2.38696 / 1.54904	5.7780	0.0780	1.8800e-003	8.0001
High Turnover (Sit Down Restaurant)	0.774011 / 0.0523111	1.4155	0.0253	6.1000e-004	2.1342
Hotel	0.668414 / 0.078637	1.2564	0.0218	5.2000e-004	1.8772
Single Family Housing	0.0553809 / 0.0269678	0.1351	1.8100e-003	4.0000e-005	0.1867
User Defined Recreational	0.03723 / 0	0.0655	1.2200e-003	3.0000e-005	0.1001
Total		13.5065	0.1965	4.7300e-003	19.1004

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	21.1232	1.2484	0.0000	47.3385

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0409
Convenience Market (24 Hour)	6.01	1.2200	0.0721	0.0000	2.7340
General Light Industry	12.4	2.5171	0.1488	0.0000	5.6410
General Office Building	14.69	2.9819	0.1762	0.0000	6.6827
High Turnover (Sit Down Restaurant)	35.7	7.2468	0.4283	0.0000	16.2405
Hotel	16.97	3.4448	0.2036	0.0000	7.7199
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.5596
User Defined Recreational	16.97	3.4448	0.2036	0.0000	7.7199
Total		21.1233	1.2484	0.0000	47.3385

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park		0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)		0.0000	0.0000	0.0000	0.0000
General Light Industry		0.0000	0.0000	0.0000	0.0000
General Office Building		0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)		0.0000	0.0000	0.0000	0.0000
Hotel		0.0000	0.0000	0.0000	0.0000
Single Family Housing		0.0000	0.0000	0.0000	0.0000
User Defined Recreational		0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Others	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Port San Luis Harbor Terrace
San Luis Obispo County APCD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.40	0.02	0.00	0.51	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.61	0.45	0.03	0.00	0.78	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.13	0.08	0.03	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.72	0.51	-0.13	0.00	0.93	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.80	0.66	0.44	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	1	1	No Change	0.00
Cranes	Diesel	Tier 3	1	1	Level 3	0.00
Excavators	Diesel	Tier 3	1	1	Level 3	0.00
Forklifts	Diesel	Tier 3	3	3	Level 3	0.00
Generator Sets	Diesel	Tier 3	1	1	No Change	0.00
Graders	Diesel	Tier 3	1	1	Level 3	0.00
Pavers	Diesel	Tier 3	2	2	Level 3	0.00
Paving Equipment	Diesel	Tier 3	2	2	Level 3	0.00
Rollers	Diesel	Tier 3	2	2	Level 3	0.00
Rubber Tired Dozers	Diesel	Tier 3	4	4	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	10	10	Level 3	0.00
Welders	Diesel	Tier 3	1	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.68000E-003	2.37200E-002	1.88400E-002	3.00000E-005	1.97000E-003	1.97000E-003	0.00000E+000	2.55325E+000	2.55325E+000	3.00000E-004	0.00000E+000	2.55958E+000
Cranes	7.46900E-002	8.86500E-001	3.08620E-001	5.70000E-004	4.04700E-002	3.72300E-002	0.00000E+000	5.40733E+001	5.40733E+001	1.61400E-002	0.00000E+000	5.44123E+001
Excavators	4.17000E-003	4.86500E-002	3.43900E-002	5.00000E-005	2.40000E-003	2.21000E-003	0.00000E+000	5.03991E+000	5.03991E+000	1.50000E-003	0.00000E+000	5.07151E+000
Forklifts	8.32300E-002	7.14940E-001	4.40110E-001	5.30000E-004	6.00600E-002	5.52500E-002	0.00000E+000	5.01914E+001	5.01914E+001	1.49800E-002	0.00000E+000	5.05061E+001
Generator Sets	8.20800E-002	6.01260E-001	4.41140E-001	7.60000E-004	4.37500E-002	4.37500E-002	0.00000E+000	6.49989E+001	6.49989E+001	6.63000E-003	0.00000E+000	6.51382E+001
Graders	1.06200E-002	1.08680E-001	4.98100E-002	6.00000E-005	6.11000E-003	5.62000E-003	0.00000E+000	5.96081E+000	5.96081E+000	1.78000E-003	0.00000E+000	5.99818E+000
Pavers	8.08000E-003	9.08700E-002	5.70700E-002	9.00000E-005	4.52000E-003	4.16000E-003	0.00000E+000	8.51416E+000	8.51416E+000	2.57000E-003	0.00000E+000	8.56807E+000
Paving Equipment	6.17000E-003	7.18800E-002	5.08800E-002	8.00000E-005	3.56000E-003	3.28000E-003	0.00000E+000	7.56399E+000	7.56399E+000	2.28000E-003	0.00000E+000	7.61187E+000
Rollers	6.77000E-003	6.25100E-002	4.03000E-002	5.00000E-005	4.61000E-003	4.24000E-003	0.00000E+000	4.94634E+000	4.94634E+000	1.49000E-003	0.00000E+000	4.97765E+000
Rubber Tired Dozers	3.18300E-002	3.59680E-001	2.74410E-001	2.20000E-004	1.67800E-002	1.54400E-002	0.00000E+000	2.11812E+001	2.11812E+001	6.32000E-003	0.00000E+000	2.13140E+001
Tractors/Loaders/ Backhoes	1.26810E-001	1.20768E+000	8.53510E-001	1.10000E-003	9.45300E-002	8.69600E-002	0.00000E+000	1.04539E+002	1.04539E+002	3.12100E-002	0.00000E+000	1.05195E+002
Welders	7.20000E-002	2.14670E-001	2.33520E-001	2.90000E-004	1.80500E-002	1.80500E-002	0.00000E+000	2.16454E+001	2.16454E+001	5.87000E-003	0.00000E+000	2.17686E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	5.90000E-004	1.35700E-002	1.83200E-002	3.00000E-005	9.50000E-004	9.50000E-004	0.00000E+000	2.55325E+000	2.55325E+000	3.00000E-004	0.00000E+000	2.55957E+000
Cranes	1.39600E-002	2.69850E-001	3.02420E-001	5.70000E-004	1.54000E-003	1.54000E-003	0.00000E+000	5.40732E+001	5.40732E+001	1.61400E-002	0.00000E+000	5.44122E+001
Excavators	1.30000E-003	2.51900E-002	4.01700E-002	5.00000E-005	1.80000E-004	1.80000E-004	0.00000E+000	5.03990E+000	5.03990E+000	1.50000E-003	0.00000E+000	5.07150E+000
Forklifts	1.30000E-002	2.96770E-001	4.00740E-001	5.30000E-004	3.12000E-003	3.12000E-003	0.00000E+000	5.01913E+001	5.01913E+001	1.49800E-002	0.00000E+000	5.05060E+001
Generator Sets	1.51300E-002	3.45450E-001	4.66480E-001	7.60000E-004	2.42100E-002	2.42100E-002	0.00000E+000	6.49988E+001	6.49988E+001	6.63000E-003	0.00000E+000	6.51381E+001
Graders	1.51000E-003	2.91900E-002	4.65500E-002	6.00000E-005	2.10000E-004	2.10000E-004	0.00000E+000	5.96080E+000	5.96080E+000	1.78000E-003	0.00000E+000	5.99817E+000
Pavers	2.22000E-003	4.29600E-002	6.85200E-002	9.00000E-005	3.10000E-004	3.10000E-004	0.00000E+000	8.51415E+000	8.51415E+000	2.57000E-003	0.00000E+000	8.56806E+000
Paving Equipment	1.98000E-003	3.83000E-002	6.10800E-002	8.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	7.56398E+000	7.56398E+000	2.28000E-003	0.00000E+000	7.61186E+000
Rollers	1.29000E-003	2.93800E-002	3.96800E-002	5.00000E-005	3.10000E-004	3.10000E-004	0.00000E+000	4.94633E+000	4.94633E+000	1.49000E-003	0.00000E+000	4.97765E+000
Rubber Tired Dozers	5.40000E-003	1.04340E-001	1.16930E-001	2.20000E-004	5.90000E-004	5.90000E-004	0.00000E+000	2.11812E+001	2.11812E+001	6.32000E-003	0.00000E+000	2.13140E+001
Tractors/Loaders/Balckhoes	2.67300E-002	6.10290E-001	8.24110E-001	1.10000E-003	6.41000E-003	6.41000E-003	0.00000E+000	1.04539E+002	1.04539E+002	3.12100E-002	0.00000E+000	1.05194E+002
Welders	1.21800E-002	1.94390E-001	1.72140E-001	2.90000E-004	1.17600E-002	1.17600E-002	0.00000E+000	2.16454E+001	2.16454E+001	5.87000E-003	0.00000E+000	2.17686E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.39674E-001	4.27909E-001	2.76008E-002	0.00000E+000	5.17766E-001	5.17766E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.90689E-006
Cranes	8.13094E-001	6.95601E-001	2.00894E-002	0.00000E+000	9.61947E-001	9.58636E-001	0.00000E+000	1.10961E-006	1.10961E-006	0.00000E+000	0.00000E+000	1.28647E-006
Excavators	6.88249E-001	4.82220E-001	-1.68072E-001	0.00000E+000	9.25000E-001	9.18552E-001	0.00000E+000	1.98416E-006	1.98416E-006	0.00000E+000	0.00000E+000	1.97180E-006
Forklifts	8.43806E-001	5.84902E-001	8.94549E-002	0.00000E+000	9.48052E-001	9.43529E-001	0.00000E+000	1.19542E-006	1.19542E-006	0.00000E+000	0.00000E+000	1.18798E-006
Generator Sets	8.15668E-001	4.25457E-001	-5.74421E-002	0.00000E+000	4.46629E-001	4.46629E-001	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22816E-006
Graders	8.57815E-001	7.31413E-001	6.54487E-002	0.00000E+000	9.65630E-001	9.62633E-001	0.00000E+000	1.67762E-006	1.67762E-006	0.00000E+000	0.00000E+000	1.66717E-006
Pavers	7.25248E-001	5.27237E-001	-2.00631E-001	0.00000E+000	9.31416E-001	9.25481E-001	0.00000E+000	1.17451E-006	1.17451E-006	0.00000E+000	0.00000E+000	1.16712E-006
Paving Equipment	6.79092E-001	4.67168E-001	-2.00472E-001	0.00000E+000	9.21348E-001	9.14634E-001	0.00000E+000	1.32205E-006	1.32205E-006	0.00000E+000	0.00000E+000	1.31374E-006
Rollers	8.09453E-001	5.29995E-001	1.53846E-002	0.00000E+000	9.32755E-001	9.26887E-001	0.00000E+000	2.02170E-006	2.02170E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	8.30349E-001	7.09909E-001	5.73886E-001	0.00000E+000	9.64839E-001	9.61788E-001	0.00000E+000	9.44234E-007	9.44234E-007	0.00000E+000	0.00000E+000	1.40753E-006
Tractors/Loaders/Balckhoes	7.89212E-001	4.94659E-001	3.44460E-002	0.00000E+000	9.32191E-001	9.26288E-001	0.00000E+000	1.24355E-006	1.24355E-006	0.00000E+000	0.00000E+000	1.14074E-006
Welders	8.30833E-001	9.44706E-002	2.62847E-001	0.00000E+000	3.48476E-001	3.48476E-001	0.00000E+000	1.38598E-006	1.38598E-006	0.00000E+000	0.00000E+000	1.37813E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		

Yes	Clean Paved Road	% PM Reduction	0.00				
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Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.15	0.04	0.15	0.04	0.00	0.00
Grading	Fugitive Dust	0.08	0.04	0.03	0.01	0.61	0.61
Grading	Roads	0.12	0.03	0.12	0.03	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	71.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.73	10.73	10.70	10.77	10.73
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.11	3.69	2.61	4.56	4.27	4.28	0.00	4.61	4.61	3.80	0.00	4.60
Natural Gas	16.83	16.79	16.79	17.17	16.80	16.80	0.00	16.79	16.79	17.01	16.77	16.79
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	15.00	19.37	18.78	15.00	15.08	17.72
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.09	0.30		
Yes	Land Use	Improve Walkability Design	-0.11	2.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
Yes	Neighborhood Enhancements	Provide Traffic Calming Measures	0.75	100.00	50.00	
No	Neighborhood Enhancements	Implement NEV Network	0.01			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.05			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.05			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.05		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	71.00
Yes	Use Low VOC Paint (Residential Exterior)	71.00
Yes	Use Low VOC Paint (Non-residential Interior)	71.00
Yes	Use Low VOC Paint (Non-residential Exterior)	71.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	20.00	
Yes	Install High Efficiency Lighting	16.00	
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	15.00	10.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	