

**Enterprise Way
North Central Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	140.00	Space	1.92	45,195.00	0
Hotel	120.00	Room	0.56	85,462.00	0
Condo/Townhouse	50.00	Dwelling Unit	3.84	110,750.00	143

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2017
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 - per CalEEMod instructions, parking for non-residential uses is entered separately.

Construction Phase - No existing buildings; other default values doubled to account for 2 projects in one analysis

Trips and VMT - No existing buildings

On-road Fugitive Dust - No existing buildings

Grading - conseratively assumining separate construcion projects, and cut from resi can't go to fill on hotel; acreages from disturbed areas under each plan

Vehicle Trips - weekday trip-generation rates are per traffic analysis, ITE Code 230, based on ITE equation. weekend rates are CalEEMod defaults

Woodstoves - No fireplaces in residential development. All 50 units have NO fireplaces.

However, hotel has 1 hearth. Given hotel use is not provided on this page, added 1 fireplace to residential development as a substitute.

Land Use Change -

Sequestration -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	230.00	460.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	5/18/2017	4/20/2017
tblConstructionPhase	PhaseEndDate	1/11/2018	12/14/2017
tblConstructionPhase	PhaseEndDate	4/21/2016	4/7/2016
tblConstructionPhase	PhaseEndDate	2/8/2018	3/23/2017
tblConstructionPhase	PhaseEndDate	1/28/2016	2/25/2016
tblConstructionPhase	PhaseStartDate	3/24/2017	2/24/2017
tblConstructionPhase	PhaseStartDate	4/8/2016	3/11/2016
tblConstructionPhase	PhaseStartDate	2/26/2016	2/12/2016
tblConstructionPhase	PhaseStartDate	12/15/2017	1/27/2017
tblConstructionPhase	PhaseStartDate	1/1/2016	1/29/2016

tblFireplaces	NumberGas	27.50	0.00
tblFireplaces	NumberWood	17.50	1.00
tblGrading	AcresOfGrading	20.00	6.35
tblGrading	AcresOfGrading	0.00	6.35
tblGrading	MaterialExported	0.00	5,600.00
tblGrading	MaterialImported	0.00	2,177.00
tblLandUse	LandUseSquareFeet	56,000.00	45,195.00
tblLandUse	LandUseSquareFeet	174,240.00	85,462.00
tblLandUse	LandUseSquareFeet	50,000.00	110,750.00
tblLandUse	LotAcreage	1.26	1.92
tblLandUse	LotAcreage	4.00	0.56
tblLandUse	LotAcreage	3.13	3.84
tblOnRoadDust	AverageVehicleWeight	2.40	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	MaterialMoistureContent	0.50	0.00
tblOnRoadDust	MaterialSiltContent	8.50	0.00
tblOnRoadDust	MeanVehicleSpeed	40.00	0.00
tblOnRoadDust	RoadSiltLoading	0.10	0.00
tblOnRoadDust	VendorPercentPave	100.00	0.00
tblOnRoadDust	WorkerPercentPave	100.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSequestration	NumberOfNewTrees	0.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	WD_TR	6.59	7.04
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

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	1.4048	6.4000e-003	0.5718	2.0000e-005		0.0287	0.0287		0.0287	0.0287	2.3738	0.6111	2.9849	6.2000e-004	2.1000e-004	3.0629
Energy	0.0241	0.2154	0.1577	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	538.1547	538.1547	0.0181	7.1700e-003	540.7593
Mobile	0.9707	2.2887	10.3550	0.0162	1.0428	0.0269	1.0698	0.2794	0.0248	0.3042	0.0000	1,256.3592	1,256.3592	0.0658	0.0000	1,257.7405
Waste						0.0000	0.0000		0.0000	0.0000	18.0053	0.0000	18.0053	1.0641	0.0000	40.3510
Water						0.0000	0.0000		0.0000	0.0000	1.9992	12.3552	14.3544	0.2059	4.9600e-003	20.2172
Total	2.3995	2.5105	11.0845	0.0176	1.0428	0.0722	1.1151	0.2794	0.0701	0.3495	22.3783	1,807.4802	1,829.8585	1.3545	0.0123	1,862.1309

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	146.8000
Vegetation Land Change	-33.1870
Total	113.6130

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2016	12/31/2015	5	0	
2	Site Preparation	Site Preparation	1/29/2016	2/25/2016	5	20	
3	Grading	Grading	2/12/2016	4/7/2016	5	40	
4	Building Construction	Building Construction	3/11/2016	12/14/2017	5	460	
5	Paving	Paving	1/27/2017	3/23/2017	5	40	
6	Architectural Coating	Architectural Coating	2/24/2017	4/20/2017	5	40	

Acres of Grading (Site Preparation Phase): 6.35

Acres of Grading (Grading Phase): 6.35

Acres of Paving: 0

Residential Indoor: 224,269; Residential Outdoor: 74,756; Non-Residential Indoor: 130,227; Non-Residential Outdoor: 43,409 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
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
Demolition	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	972.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	91.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1840	0.0000	0.1840	0.0997	0.0000	0.0997	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5463	0.4111	3.9000e-004		0.0294	0.0294		0.0270	0.0270	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107
Total	0.0508	0.5463	0.4111	3.9000e-004	0.1840	0.0294	0.2134	0.0997	0.0270	0.1267	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107

3.3 Site Preparation - 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	8.5000e-004	1.2900e-003	0.0116	2.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3434	1.3434	1.0000e-004	0.0000	1.3454	
Total	8.5000e-004	1.2900e-003	0.0116	2.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3434	1.3434	1.0000e-004	0.0000	1.3454	

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					0.1840	0.0000	0.1840	0.0997	0.0000	0.0997	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0508	0.5463	0.4111	3.9000e-004		0.0294	0.0294		0.0270	0.0270	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107
Total	0.0508	0.5463	0.4111	3.9000e-004	0.1840	0.0294	0.2134	0.0997	0.0270	0.1267	0.0000	36.8771	36.8771	0.0111	0.0000	37.1107

3.3 Site Preparation - 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	8.5000e-004	1.2900e-003	0.0116	2.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3434	1.3434	1.0000e-004	0.0000	1.3454
Total	8.5000e-004	1.2900e-003	0.0116	2.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3434	1.3434	1.0000e-004	0.0000	1.3454

3.4 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1244	0.0000	0.1244	0.0667	0.0000	0.0667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0733	0.7689	0.5216	5.9000e-004		0.0440	0.0440		0.0405	0.0405	0.0000	56.1328	56.1328	0.0169	0.0000	56.4883
Total	0.0733	0.7689	0.5216	5.9000e-004	0.1244	0.0440	0.1684	0.0667	0.0405	0.1071	0.0000	56.1328	56.1328	0.0169	0.0000	56.4883

3.4 Grading - 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	0.0120	0.1312	0.1465	3.6000e-004	8.2300e-003	2.0200e-003	0.0103	2.2600e-003	1.8500e-003	4.1200e-003	0.0000	32.9677	32.9677	2.4000e-004	0.0000	32.9727
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	1.4100e-003	2.1500e-003	0.0194	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.2390	2.2390	1.6000e-004	0.0000	2.2424
Total	0.0134	0.1334	0.1659	3.9000e-004	0.0106	2.0400e-003	0.0127	2.8900e-003	1.8700e-003	4.7800e-003	0.0000	35.2067	35.2067	4.0000e-004	0.0000	35.2151

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					0.1244	0.0000	0.1244	0.0667	0.0000	0.0667	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0733	0.7689	0.5216	5.9000e-004		0.0440	0.0440		0.0405	0.0405	0.0000	56.1327	56.1327	0.0169	0.0000	56.4883
Total	0.0733	0.7689	0.5216	5.9000e-004	0.1244	0.0440	0.1684	0.0667	0.0405	0.1071	0.0000	56.1327	56.1327	0.0169	0.0000	56.4883

3.4 Grading - 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	0.0120	0.1312	0.1465	3.6000e-004	8.2300e-003	2.0200e-003	0.0103	2.2600e-003	1.8500e-003	4.1200e-003	0.0000	32.9677	32.9677	2.4000e-004	0.0000	32.9727
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	1.4100e-003	2.1500e-003	0.0194	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.2390	2.2390	1.6000e-004	0.0000	2.2424
Total	0.0134	0.1334	0.1659	3.9000e-004	0.0106	2.0400e-003	0.0127	2.8900e-003	1.8700e-003	4.7800e-003	0.0000	35.2067	35.2067	4.0000e-004	0.0000	35.2151

3.5 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3594	3.0074	1.9525	2.8300e-003		0.2076	0.2076		0.1950	0.1950	0.0000	255.4720	255.4720	0.0634	0.0000	256.8026
Total	0.3594	3.0074	1.9525	2.8300e-003		0.2076	0.2076		0.1950	0.1950	0.0000	255.4720	255.4720	0.0634	0.0000	256.8026

3.5 Building Construction - 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	0.0411	0.2869	0.5046	6.7000e-004	0.0183	4.7400e-003	0.0230	5.2000e-003	4.3600e-003	9.5600e-003	0.0000	60.5158	60.5158	5.1000e-004	0.0000	60.5265	
Worker	0.0452	0.0687	0.6192	9.5000e-004	0.0764	7.9000e-004	0.0772	0.0203	7.2000e-004	0.0210	0.0000	71.6531	71.6531	5.0800e-003	0.0000	71.7598	
Total	0.0863	0.3556	1.1237	1.6200e-003	0.0946	5.5300e-003	0.1002	0.0255	5.0800e-003	0.0306	0.0000	132.1690	132.1690	5.5900e-003	0.0000	132.2864	

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	0.3594	3.0074	1.9525	2.8300e-003		0.2076	0.2076		0.1950	0.1950	0.0000	255.4717	255.4717	0.0634	0.0000	256.8023	
Total	0.3594	3.0074	1.9525	2.8300e-003		0.2076	0.2076		0.1950	0.1950	0.0000	255.4717	255.4717	0.0634	0.0000	256.8023	

3.5 Building Construction - 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	0.0411	0.2869	0.5046	6.7000e-004	0.0183	4.7400e-003	0.0230	5.2000e-003	4.3600e-003	9.5600e-003	0.0000	60.5158	60.5158	5.1000e-004	0.0000	60.5265	
Worker	0.0452	0.0687	0.6192	9.5000e-004	0.0764	7.9000e-004	0.0772	0.0203	7.2000e-004	0.0210	0.0000	71.6531	71.6531	5.0800e-003	0.0000	71.7598	
Total	0.0863	0.3556	1.1237	1.6200e-003	0.0946	5.5300e-003	0.1002	0.0255	5.0800e-003	0.0306	0.0000	132.1690	132.1690	5.5900e-003	0.0000	132.2864	

3.5 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.3862	3.2875	2.2571	3.3400e-003		0.2218	0.2218		0.2083	0.2083	0.0000	298.1515	298.1515	0.0734	0.0000	299.6925	
Total	0.3862	3.2875	2.2571	3.3400e-003		0.2218	0.2218		0.2083	0.2083	0.0000	298.1515	298.1515	0.0734	0.0000	299.6925	

3.5 Building Construction - 2017

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	0.0426	0.3003	0.5492	7.9000e-004	0.0215	4.7300e-003	0.0263	6.1400e-003	4.3500e-003	0.0105	0.0000	70.2088	70.2088	5.6000e-004	0.0000	70.2206	
Worker	0.0462	0.0723	0.6452	1.1200e-003	0.0901	8.8000e-004	0.0910	0.0240	8.1000e-004	0.0248	0.0000	81.3437	81.3437	5.4400e-003	0.0000	81.4578	
Total	0.0888	0.3725	1.1944	1.9100e-003	0.1117	5.6100e-003	0.1173	0.0301	5.1600e-003	0.0353	0.0000	151.5525	151.5525	6.0000e-003	0.0000	151.6784	

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	0.3862	3.2875	2.2571	3.3400e-003		0.2218	0.2218		0.2083	0.2083	0.0000	298.1511	298.1511	0.0734	0.0000	299.6921	
Total	0.3862	3.2875	2.2571	3.3400e-003		0.2218	0.2218		0.2083	0.2083	0.0000	298.1511	298.1511	0.0734	0.0000	299.6921	

3.5 Building Construction - 2017

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	0.0426	0.3003	0.5492	7.9000e-004	0.0215	4.7300e-003	0.0263	6.1400e-003	4.3500e-003	0.0105	0.0000	70.2088	70.2088	5.6000e-004	0.0000	70.2206
Worker	0.0462	0.0723	0.6452	1.1200e-003	0.0901	8.8000e-004	0.0910	0.0240	8.1000e-004	0.0248	0.0000	81.3437	81.3437	5.4400e-003	0.0000	81.4578
Total	0.0888	0.3725	1.1944	1.9100e-003	0.1117	5.6100e-003	0.1173	0.0301	5.1600e-003	0.0353	0.0000	151.5525	151.5525	6.0000e-003	0.0000	151.6784

3.6 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0382	0.4059	0.2945	4.5000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	41.3868	41.3868	0.0127	0.0000	41.6531
Paving	2.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0407	0.4059	0.2945	4.5000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	41.3868	41.3868	0.0127	0.0000	41.6531

3.6 Paving - 2017

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	1.2200e-003	1.9100e-003	0.0171	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.1539	2.1539	1.4000e-004	0.0000	2.1570
Total	1.2200e-003	1.9100e-003	0.0171	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.1539	2.1539	1.4000e-004	0.0000	2.1570

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	0.0382	0.4059	0.2945	4.5000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	41.3868	41.3868	0.0127	0.0000	41.6531
Paving	2.5200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0407	0.4059	0.2945	4.5000e-004		0.0228	0.0228		0.0210	0.0210	0.0000	41.3868	41.3868	0.0127	0.0000	41.6531

3.6 Paving - 2017

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	1.2200e-003	1.9100e-003	0.0171	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.1539	2.1539	1.4000e-004	0.0000	2.1570
Total	1.2200e-003	1.9100e-003	0.0171	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	2.1539	2.1539	1.4000e-004	0.0000	2.1570

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.7385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0437	0.0374	6.0000e-005		3.4700e-003	3.4700e-003		3.4700e-003	3.4700e-003	0.0000	5.1065	5.1065	5.4000e-004	0.0000	5.1178
Total	2.7451	0.0437	0.0374	6.0000e-005		3.4700e-003	3.4700e-003		3.4700e-003	3.4700e-003	0.0000	5.1065	5.1065	5.4000e-004	0.0000	5.1178

3.7 Architectural Coating - 2017

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	1.4700e-003	2.3000e-003	0.0205	4.0000e-005	2.8600e-003	3.0000e-005	2.8900e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.5847	2.5847	1.7000e-004	0.0000	2.5884
Total	1.4700e-003	2.3000e-003	0.0205	4.0000e-005	2.8600e-003	3.0000e-005	2.8900e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.5847	2.5847	1.7000e-004	0.0000	2.5884

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.7385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0437	0.0374	6.0000e-005		3.4700e-003	3.4700e-003		3.4700e-003	3.4700e-003	0.0000	5.1065	5.1065	5.4000e-004	0.0000	5.1178
Total	2.7451	0.0437	0.0374	6.0000e-005		3.4700e-003	3.4700e-003		3.4700e-003	3.4700e-003	0.0000	5.1065	5.1065	5.4000e-004	0.0000	5.1178

3.7 Architectural Coating - 2017

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	1.4700e-003	2.3000e-003	0.0205	4.0000e-005	2.8600e-003	3.0000e-005	2.8900e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.5847	2.5847	1.7000e-004	0.0000	2.5884
Total	1.4700e-003	2.3000e-003	0.0205	4.0000e-005	2.8600e-003	3.0000e-005	2.8900e-003	7.6000e-004	3.0000e-005	7.9000e-004	0.0000	2.5847	2.5847	1.7000e-004	0.0000	2.5884

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9707	2.2887	10.3550	0.0162	1.0428	0.0269	1.0698	0.2794	0.0248	0.3042	0.0000	1,256.3592	1,256.3592	0.0658	0.0000	1,257.7405
Unmitigated	0.9707	2.2887	10.3550	0.0162	1.0428	0.0269	1.0698	0.2794	0.0248	0.3042	0.0000	1,256.3592	1,256.3592	0.0658	0.0000	1,257.7405

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	352.00	358.00	303.50	996,582	996,582
Hotel	980.40	982.80	714.00	1,791,038	1,791,038
Parking Lot	0.00	0.00	0.00		
Total	1,332.40	1,340.80	1,017.50	2,787,619	2,787,619

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
Condo/Townhouse	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.464236	0.038779	0.210624	0.164455	0.051413	0.007282	0.016457	0.029840	0.003038	0.002180	0.008160	0.000830	0.002706

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	299.8164	299.8164	0.0136	2.8000e-003	300.9706
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	299.8164	299.8164	0.0136	2.8000e-003	300.9706
NaturalGas Mitigated	0.0241	0.2154	0.1577	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	238.3383	238.3383	4.5700e-003	4.3700e-003	239.7888
NaturalGas Unmitigated	0.0241	0.2154	0.1577	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	238.3383	238.3383	4.5700e-003	4.3700e-003	239.7888

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					
Hotel	3.25183e+006	0.0175	0.1594	0.1339	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.5300	173.5300	3.3300e-003	3.1800e-003	174.5861
Parking Lot	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
Condo/Townhouse	1.21446e+006	6.5500e-003	0.0560	0.0238	3.6000e-004		4.5200e-003	4.5200e-003		4.5200e-003	4.5200e-003	0.0000	64.8083	64.8083	1.2400e-003	1.1900e-003	65.2027
Total		0.0241	0.2154	0.1577	1.3200e-003		0.0166	0.0166		0.0166	0.0166	0.0000	238.3383	238.3383	4.5700e-003	4.3700e-003	239.7888

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					
Parking Lot	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
Condo/Townhouse	1.21446e+006	6.5500e-003	0.0560	0.0238	3.6000e-004		4.5200e-003	4.5200e-003		4.5200e-003	4.5200e-003	0.0000	64.8083	64.8083	1.2400e-003	1.1900e-003	65.2027
Hotel	3.25183e+006	0.0175	0.1594	0.1339	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.5300	173.5300	3.3300e-003	3.1800e-003	174.5861
Total		0.0241	0.2154	0.1577	1.3200e-003		0.0166	0.0166		0.0166	0.0166	0.0000	238.3383	238.3383	4.5700e-003	4.3700e-003	239.7888

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	213135	62.0033	2.8000e-003	5.8000e-004	62.2420
Hotel	777704	226.2431	0.0102	2.1200e-003	227.1140
Parking Lot	39771.6	11.5700	5.2000e-004	1.1000e-004	11.6146
Total		299.8164	0.0136	2.8100e-003	300.9706

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	213135	62.0033	2.8000e-003	5.8000e-004	62.2420
Hotel	777704	226.2431	0.0102	2.1200e-003	227.1140
Parking Lot	39771.6	11.5700	5.2000e-004	1.1000e-004	11.6146
Total		299.8164	0.0136	2.8100e-003	300.9706

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4048	6.4000e-003	0.5718	2.0000e-005		0.0287	0.0287		0.0287	0.0287	2.3738	0.6111	2.9849	6.2000e-004	2.1000e-004	3.0629
Unmitigated	1.4048	6.4000e-003	0.5718	2.0000e-005		0.0287	0.0287		0.0287	0.0287	2.3738	0.6111	2.9849	6.2000e-004	2.1000e-004	3.0629

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1762	2.0000e-003	0.1944	0.0000		0.0266	0.0266		0.0266	0.0266	2.3738	0.0000	2.3738	0.0000	2.1000e-004	2.4387
Landscaping	0.0119	4.3900e-003	0.3774	2.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	0.6111	0.6111	6.2000e-004	0.0000	0.6241
Total	1.4048	6.3900e-003	0.5718	2.0000e-005		0.0287	0.0287		0.0287	0.0287	2.3738	0.6111	2.9849	6.2000e-004	2.1000e-004	3.0629

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	0.2739					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1762	2.0000e-003	0.1944	0.0000		0.0266	0.0266		0.0266	0.0266	2.3738	0.0000	2.3738	0.0000	2.1000e-004	2.4387
Landscaping	0.0119	4.3900e-003	0.3774	2.0000e-005		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	0.6111	0.6111	6.2000e-004	0.0000	0.6241
Total	1.4048	6.3900e-003	0.5718	2.0000e-005		0.0287	0.0287		0.0287	0.0287	2.3738	0.6111	2.9849	6.2000e-004	2.1000e-004	3.0629

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.3544	0.2059	4.9600e-003	20.2140
Unmitigated	14.3544	0.2059	4.9600e-003	20.2172

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.2577 / 2.05377	8.2527	0.1065	2.5700e-003	11.2867
Hotel	3.04401 / 0.338224	6.1018	0.0994	2.3900e-003	8.9305
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.3544	0.2059	4.9600e-003	20.2172

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.2577 / 2.05377	8.2527	0.1065	2.5700e-003	11.2850
Hotel	3.04401 / 0.338224	6.1018	0.0994	2.3900e-003	8.9290
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.3544	0.2059	4.9600e-003	20.2140

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.0053	1.0641	0.0000	40.3510
Unmitigated	18.0053	1.0641	0.0000	40.3510

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	23	4.6688	0.2759	0.0000	10.4631
Hotel	65.7	13.3365	0.7882	0.0000	29.8880
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		18.0053	1.0641	0.0000	40.3510

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	23	4.6688	0.2759	0.0000	10.4631
Hotel	65.7	13.3365	0.7882	0.0000	29.8880
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		18.0053	1.0641	0.0000	40.3510

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	113.6130	0.0000	0.0000	113.6130

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	8.7 / 1	-33.1870	0.0000	0.0000	-33.1870
Total		-33.1870	0.0000	0.0000	-33.1870

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	200	146.8000	0.0000	0.0000	146.8000
Total		146.8000	0.0000	0.0000	146.8000

Construction

Emissions Source	Pollutant							CO ₂
	ROG	NO _x	CO	SO ₂	PM ₁₀			
					Dust	Exhaust	Total	
Construction (pound/day)	25.396	58.924	52.851	0.077	3.512	3.578	7.089	3319.386
Construction (tons/year)	3.8475	8.927	8.007	0.0117	0.532	0.542	1.074	502.887

lbs/year	7695	17854	16014	23.4	1064	1084	2148	1005774
lbs/day	25.396	58.924	52.851	0.077	3.512	3.578	7.089	3319.386

year 2017
 saturdays 52
 sundays 53
 holidays 9
 construction days 303 assume working saturdays

Note: CO2 is shown in CalEEMod in MT/year. Shown here is the converted value to US tons per year

502.887 MT/year tons/MT
 1.10231 554.3374 tons/year

lbs/ton
 2000

days/year
 365

Operation

Emission Source	Pollutants (tons/year)				
	Reactive Organic Gases (ROG)	Nitrogen Oxides (NO _x)	Carbon Monoxide (CO)	Particulate Matter (<10 microns [PM ₁₀])	Sulfur Dioxide (SO _x)
Area	1.405	0.006	0.571	0.029	0.000
Energy	0.024	0.215	0.158	0.017	0.001
Mobile	0.971	2.289	10.356	1.07	0.016
Total	2.396	2.511	11.085	1.115	0.018

Source: CalEEMod v. 2013.2.2 and Kimley-Horn and Associates, 2015.

Emission Source	Pollutants (pounds/day)				
	Reactive Organic Gases (ROG)	Nitrogen Oxides (NO _x)	Carbon Monoxide (CO)	Particulate Matter (<10 microns [PM ₁₀])	Sulfur Dioxide (SO _x)
Area	7.70	0.03	3.13	0.16	0.00
Energy	0.13	1.18	0.87	0.09	0.01
Mobile	5.32	12.54	56.75	5.86	0.09
Total	13.13	13.76	60.74	6.11	0.10
MBUAPCD Threshold	137	137	550 (1)	82	150
Are Thresholds Exceeded?	No	No	No	No	No
Notes: Area source emissions include natural gas fuel combustion, landscape fuel combustion, consumer products, architectural coatings, and hearth fuel combustion (i.e., wood stoves, wood fireplaces, natural gas (1) Applies to Area Source (Direct) emissions of Carbon Monoxide only.					

Source: CalEEMod v. 2013.2.2 and Kimley-Horn and Associates, 2015.

	<u>Operational</u>	<u>Construction</u>
CO2e from CalEEMod	1,905.86	1022.14 MT CO2e total (all years of construction)
CO2e from N2O trans	6.20	20.4428 annualized over 50 years
Total MT CO2e	1,912.06	

Project VMT

2,756,245

Type	Autos	Light Trucks Class 1	Light Trucks Class 2	Medium Duty	Light Heavy Duty 1	Light Heavy Duty 2	Medium Heavy Duty	Heavy Heavy Duty	Other Bus	Urban Bus	Motorcycle	School Bus	Motor Home	
CalEEMod Category	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
% of fleet	46.40%	3.80%	21.00%	16.40%	5.10%	0.70%	1.60%	2.90%	0.30%	0.20%	0.80%	0.10%	0.20%	
N2O g/mile	0.0079	0.0101	0.0101	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0048	0.0079	0.0048	0.0048	
CCAR factor used	gasonline >= 2005	light gasoline >= 2005	light gasoline >= 2005	heavy diesel	heavy diesel	heavy diesel	heavy diesel	heavy diesel	heavy diesel	heavy diesel	gasonline >= 2005	heavy diesel	heavy diesel	
grams N2O per vehicle type	20,820	10,103	1,058	5,846	2,170	675	93	212	384	40	26	174	13	26
MT N2O from trans	0.0208													
MT CO2e from N2O from trans	6.20													