

Appendix D

## **Air Quality and Greenhouse Gas Analysis Details**

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## Air Quality and Greenhouse Gas Attachments

- CalEEMod Emissions Outputs
- MBUAPCD Consistency Tool
- Health Risk Assessment

**PBC Inclusionary Housing - BAU**  
**Monterey County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.92	Acre	0.92	40,075.20	0
Condo/Townhouse	24.00	Dwelling Unit	1.78	24,000.00	69

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.8	<b>Precipitation Freq (Days)</b>	51
<b>Climate Zone</b>	4			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	453	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE 2012 - no RPS adjustment

Land Use - 2.7 acre total development. 0.92 acres of parking (35,000 sf of parking, 5,000 sf of walkways), remainder is buildings

Construction Phase - schedule from applicant

Off-road Equipment - Finish sitework equip from applicant. "other" is the auger.

Off-road Equipment - Finishes equip from applicant

Off-road Equipment - Foundations equip from applicant

Off-road Equipment - Rough framing equip from applicant

Off-road Equipment - Equip from applicant. Dozer represents "forestry equipment"

Off-road Equipment - additional phase is for Paving VOC only

Trips and VMT - Trips from project applicant. All using "hauling" factors (HHDT, 20 mi r/t). Assumes 2 ADT/worker/day.

Grading - 2.7 acre site per PD, 3,325 cy cut and fill balanced onsite

Vehicle Trips - 6.65 adt/du per tia.

Vehicle Emission Factors - CO2 rates adjusted to remove state measures

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - default stove and fireplace settings

Consumer Products - default consumer products

Area Coating - default coating settings (250 g/L) and 10% reapplication rate

Energy Use - default energy use

Water And Wastewater - default water use

Solid Waste - default waste

Land Use Change -

Sequestration - -590 oak trees = hardwood. -135 Monterey Pines = Pine. 174 New trees assumed to be "miscellaneous".

Construction Off-road Equipment Mitigation - Watering 3x mit

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	3.00	77.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	8/24/2017	7/28/2017
tblConstructionPhase	PhaseEndDate	4/27/2017	4/28/2017
tblConstructionPhase	PhaseEndDate	1/12/2017	1/13/2017
tblConstructionPhase	PhaseEndDate	1/26/2017	10/28/2016
tblConstructionPhase	PhaseEndDate	10/26/2017	10/27/2017
tblConstructionPhase	PhaseStartDate	4/29/2017	4/3/2017
tblConstructionPhase	PhaseStartDate	1/14/2017	1/16/2017
tblConstructionPhase	PhaseStartDate	10/29/2016	10/31/2016
tblConstructionPhase	PhaseStartDate	10/29/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	7/29/2017	7/31/2017
tblGrading	AcresOfGrading	24.38	2.70
tblGrading	AcresOfGrading	38.50	2.70
tblGrading	MaterialExported	0.00	3,325.00
tblGrading	MaterialImported	0.00	3,325.00
tblLandUse	LotAcreage	1.50	1.78
tblOffRoadEquipment	UsageHours	7.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	453
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	PrecipitationFrequency	55	51
tblSequestration	NumberOfNewTrees	0.00	174.00
tblSequestration	NumberOfNewTrees	0.00	-590.00
tblSequestration	NumberOfNewTrees	0.00	-135.00
tblTripsAndVMT	HaulingTripNumber	831.00	102.00
tblTripsAndVMT	HaulingTripNumber	0.00	79.00
tblTripsAndVMT	HaulingTripNumber	0.00	107.00
tblTripsAndVMT	HaulingTripNumber	0.00	182.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	34.00	30.00
tblTripsAndVMT	WorkerTripNumber	7.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleEF	LDA	281.47	361.13
tblVehicleEF	LDA	58.96	73.19
tblVehicleEF	LDT1	347.51	418.83
tblVehicleEF	LDT1	71.63	84.83
tblVehicleEF	LDT2	414.17	494.19
tblVehicleEF	LDT2	85.19	100.31
tblVehicleEF	MDV	544.27	625.72

tblVehicleEF	MDV	111.66	125.87
tblVehicleTrips	ST_TR	7.16	7.50
tblVehicleTrips	SU_TR	6.07	7.50
tblVehicleTrips	WD_TR	6.59	7.50

## 2.0 Emissions Summary

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**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	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Energy	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
Mobile	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.944 3	1,396.944 3	0.0742		1,398.502 1
<b>Total</b>	<b>39.2485</b>	<b>2.8696</b>	<b>57.6217</b>	<b>0.0350</b>	<b>1.0991</b>	<b>6.4027</b>	<b>7.5018</b>	<b>0.2937</b>	<b>6.4005</b>	<b>6.6942</b>	<b>666.5215</b>	<b>1,830.688 8</b>	<b>2,497.210 4</b>	<b>0.6957</b>	<b>0.0552</b>	<b>2,528.929 3</b>

**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	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Energy	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
Mobile	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.944 3	1,396.944 3	0.0742		1,398.502 1
<b>Total</b>	<b>39.2485</b>	<b>2.8696</b>	<b>57.6217</b>	<b>0.0350</b>	<b>1.0991</b>	<b>6.4027</b>	<b>7.5018</b>	<b>0.2937</b>	<b>6.4005</b>	<b>6.6942</b>	<b>666.5215</b>	<b>1,830.688 8</b>	<b>2,497.210 4</b>	<b>0.6957</b>	<b>0.0552</b>	<b>2,528.929 3</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 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 excavation, rough grading, tree removal, site utilities	Site Preparation	8/1/2016	10/28/2016	6	77	
2	Site excavation, rough grading, tree removal, site utilities (PAVING ONLY)	Paving	8/1/2016	10/28/2016	6	77	
3	Foundations, finish grading	Grading	10/31/2016	1/13/2017	6	65	
4	Rough framing electrical, plumbing, sheetmetal, roof trusses	Building Construction	1/16/2017	4/28/2017	6	89	
5	Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Architectural Coating	4/3/2017	7/28/2017	6	101	
6	Finish sitework: driveways, exterior lighting, patios, landscaping	Trenching	7/31/2017	10/27/2017	6	77	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 48,600; Residential Outdoor: 16,200; Non-Residential Indoor: 1,803; Non-Residential Outdoor: 601 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site excavation, rough grading, tree removal, site utilities	Graders	1	8.00	174	0.41
Site excavation, rough grading, tree removal, site utilities	Pavers	2	8.00	125	0.42
Site excavation, rough grading, tree removal, site utilities	Paving Equipment	2	8.00	130	0.36
Site excavation, rough grading, tree removal, site utilities	Rollers	1	6.00	80	0.38
Site excavation, rough grading, tree removal, site utilities	Rubber Tired Dozers	1	7.00	255	0.40
Site excavation, rough grading, tree removal, site utilities	Trenchers	1	8.00	80	0.50
Foundations, finish grading	Forklifts	2	8.00	89	0.20
Foundations, finish grading	Graders	1	6.00	174	0.41
Foundations, finish grading	Off-Highway Trucks	2	8.00	400	0.38
Rough framing electrical, plumbing, sheetmetal, roof trusses	Aerial Lifts	2	8.00	62	0.31
Rough framing electrical, plumbing, sheetmetal, roof trusses	Forklifts	2	6.00	89	0.20
Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Graders	1	8.00	174	0.41
Finish sitework: driveways, exterior lighting, patios, landscaping	Off-Highway Trucks	1	8.00	400	0.38
Finish sitework: driveways, exterior lighting, patios, landscaping	Other Construction Equipment	1	8.00	171	0.42

**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 excavation, rough grading, tree removal	8	30.00	0.00	102.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site excavation, rough grading, tree removal	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations, finish grading	5	30.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough framing, electrical, plumbing, s	4	30.00	0.00	107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finishes: sheetrock, closing walls, painting	2	50.00	0.00	182.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish sitework: driveways, exterior li	5	30.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Site excavation, rough grading, tree removal, site utilities - 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					
Fugitive Dust					5.3199	0.0000	5.3199	2.9025	0.0000	2.9025			0.0000			0.0000
Off-Road	4.3268	45.8811	29.2162	0.0365		2.5042	2.5042		2.3039	2.3039		3,792.9150	3,792.9150	1.1441		3,816.9407
<b>Total</b>	<b>4.3268</b>	<b>45.8811</b>	<b>29.2162</b>	<b>0.0365</b>	<b>5.3199</b>	<b>2.5042</b>	<b>7.8241</b>	<b>2.9025</b>	<b>2.3039</b>	<b>5.2064</b>		<b>3,792.9150</b>	<b>3,792.9150</b>	<b>1.1441</b>		<b>3,816.9407</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	0.0379	0.3676	0.5278	9.8000e-004	0.0230	5.4200e-003	0.0285	6.3000e-003	4.9900e-003	0.0113		97.9406	97.9406	7.2000e-004		97.9557
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1928</b>	<b>0.6173</b>	<b>2.6814</b>	<b>4.0000e-003</b>	<b>0.2695</b>	<b>8.0100e-003</b>	<b>0.2775</b>	<b>0.0717</b>	<b>7.3600e-003</b>	<b>0.0790</b>		<b>349.3604</b>	<b>349.3604</b>	<b>0.0193</b>		<b>349.7651</b>

**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					2.0748	0.0000	2.0748	1.1320	0.0000	1.1320			0.0000			0.0000
Off-Road	4.3268	45.8811	29.2162	0.0365		2.5042	2.5042		2.3039	2.3039	0.0000	3,792.9150	3,792.9150	1.1441		3,816.9407
<b>Total</b>	<b>4.3268</b>	<b>45.8811</b>	<b>29.2162</b>	<b>0.0365</b>	<b>2.0748</b>	<b>2.5042</b>	<b>4.5790</b>	<b>1.1320</b>	<b>2.3039</b>	<b>3.4358</b>	<b>0.0000</b>	<b>3,792.9150</b>	<b>3,792.9150</b>	<b>1.1441</b>		<b>3,816.9407</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	0.0379	0.3676	0.5278	9.8000e-004	0.0230	5.4200e-003	0.0285	6.3000e-003	4.9900e-003	0.0113		97.9406	97.9406	7.2000e-004		97.9557
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1928</b>	<b>0.6173</b>	<b>2.6814</b>	<b>4.0000e-003</b>	<b>0.2695</b>	<b>8.0100e-003</b>	<b>0.2775</b>	<b>0.0717</b>	<b>7.3600e-003</b>	<b>0.0790</b>		<b>349.3604</b>	<b>349.3604</b>	<b>0.0193</b>		<b>349.7651</b>

**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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					
Paving	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.0313</b>					<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**3.3 Site excavation, rough grading, tree removal, site utilities  
(PAVING ONLY) - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**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					
Paving	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.0313</b>					<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**3.4 Foundations, finish 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	lb/day										lb/day					
Fugitive Dust					0.0441	0.0000	0.0441	4.7600e-003	0.0000	4.7600e-003			0.0000			0.0000
Off-Road	3.1018	33.3954	16.3296	0.0341		1.5828	1.5828		1.4562	1.4562		3,538.188 1	3,538.188 1	1.0672		3,560.600 2
<b>Total</b>	<b>3.1018</b>	<b>33.3954</b>	<b>16.3296</b>	<b>0.0341</b>	<b>0.0441</b>	<b>1.5828</b>	<b>1.6269</b>	<b>4.7600e-003</b>	<b>1.4562</b>	<b>1.4610</b>		<b>3,538.188 1</b>	<b>3,538.188 1</b>	<b>1.0672</b>		<b>3,560.600 2</b>



### 3.4 Foundations, finish 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	lb/day										lb/day						
Hauling	0.0348	0.3373	0.4843	9.0000e-004	0.0244	4.9700e-003	0.0294	6.5900e-003	4.5800e-003	0.0112		89.8601	89.8601	6.6000e-004			89.8739
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186			251.8094
<b>Total</b>	<b>0.1897</b>	<b>0.5870</b>	<b>2.6379</b>	<b>3.9200e-003</b>	<b>0.2709</b>	<b>7.5600e-003</b>	<b>0.2784</b>	<b>0.0720</b>	<b>6.9500e-003</b>	<b>0.0789</b>		<b>341.2799</b>	<b>341.2799</b>	<b>0.0192</b>			<b>341.6834</b>

#### 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					0.0172	0.0000	0.0172	1.8600e-003	0.0000	1.8600e-003			0.0000				0.0000
Off-Road	3.1018	33.3954	16.3296	0.0341		1.5828	1.5828		1.4562	1.4562	0.0000	3,538.188 1	3,538.188 1	1.0672			3,560.600 2
<b>Total</b>	<b>3.1018</b>	<b>33.3954</b>	<b>16.3296</b>	<b>0.0341</b>	<b>0.0172</b>	<b>1.5828</b>	<b>1.6000</b>	<b>1.8600e-003</b>	<b>1.4562</b>	<b>1.4581</b>	<b>0.0000</b>	<b>3,538.188 1</b>	<b>3,538.188 1</b>	<b>1.0672</b>			<b>3,560.600 2</b>

### 3.4 Foundations, finish 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	lb/day										lb/day					
Hauling	0.0348	0.3373	0.4843	9.0000e-004	0.0244	4.9700e-003	0.0294	6.5900e-003	4.5800e-003	0.0112		89.8601	89.8601	6.6000e-004		89.8739
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1897</b>	<b>0.5870</b>	<b>2.6379</b>	<b>3.9200e-003</b>	<b>0.2709</b>	<b>7.5600e-003</b>	<b>0.2784</b>	<b>0.0720</b>	<b>6.9500e-003</b>	<b>0.0789</b>		<b>341.2799</b>	<b>341.2799</b>	<b>0.0192</b>		<b>341.6834</b>

### 3.4 Foundations, finish grading - 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	lb/day										lb/day					
Fugitive Dust					0.0441	0.0000	0.0441	4.7600e-003	0.0000	4.7600e-003			0.0000			0.0000
Off-Road	2.8803	30.5525	15.4975	0.0340		1.4377	1.4377		1.3227	1.3227		3,479.2355	3,479.2355	1.0660		3,501.6221
<b>Total</b>	<b>2.8803</b>	<b>30.5525</b>	<b>15.4975</b>	<b>0.0340</b>	<b>0.0441</b>	<b>1.4377</b>	<b>1.4817</b>	<b>4.7600e-003</b>	<b>1.3227</b>	<b>1.3274</b>		<b>3,479.2355</b>	<b>3,479.2355</b>	<b>1.0660</b>		<b>3,501.6221</b>

### 3.4 Foundations, finish grading - 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	lb/day										lb/day						
Hauling	0.0303	0.2954	0.4544	8.9000e-004	0.1000	4.2500e-003	0.1043	0.0252	3.9100e-003	0.0291		88.3291	88.3291	6.2000e-004			88.3420
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169			242.2317
<b>Total</b>	<b>0.1642</b>	<b>0.5184</b>	<b>2.3519</b>	<b>3.9000e-003</b>	<b>0.3465</b>	<b>6.6900e-003</b>	<b>0.3532</b>	<b>0.0905</b>	<b>6.1500e-003</b>	<b>0.0967</b>		<b>330.2069</b>	<b>330.2069</b>	<b>0.0175</b>			<b>330.5738</b>

#### 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					0.0172	0.0000	0.0172	1.8600e-003	0.0000	1.8600e-003			0.0000				0.0000
Off-Road	2.8803	30.5525	15.4975	0.0340		1.4377	1.4377		1.3227	1.3227	0.0000	3,479.2355	3,479.2355	1.0660			3,501.6221
<b>Total</b>	<b>2.8803</b>	<b>30.5525</b>	<b>15.4975</b>	<b>0.0340</b>	<b>0.0172</b>	<b>1.4377</b>	<b>1.4549</b>	<b>1.8600e-003</b>	<b>1.3227</b>	<b>1.3245</b>	<b>0.0000</b>	<b>3,479.2355</b>	<b>3,479.2355</b>	<b>1.0660</b>			<b>3,501.6221</b>

**3.4 Foundations, finish grading - 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	lb/day										lb/day						
Hauling	0.0303	0.2954	0.4544	8.9000e-004	0.1000	4.2500e-003	0.1043	0.0252	3.9100e-003	0.0291		88.3291	88.3291	6.2000e-004			88.3420
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169			242.2317
<b>Total</b>	<b>0.1642</b>	<b>0.5184</b>	<b>2.3519</b>	<b>3.9000e-003</b>	<b>0.3465</b>	<b>6.6900e-003</b>	<b>0.3532</b>	<b>0.0905</b>	<b>6.1500e-003</b>	<b>0.0967</b>		<b>330.2069</b>	<b>330.2069</b>	<b>0.0175</b>			<b>330.5738</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day						
Off-Road	0.4131	4.3421	4.0325	5.6000e-003		0.2826	0.2826		0.2600	0.2600		572.2414	572.2414	0.1753			575.9234
<b>Total</b>	<b>0.4131</b>	<b>4.3421</b>	<b>4.0325</b>	<b>5.6000e-003</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>		<b>572.2414</b>	<b>572.2414</b>	<b>0.1753</b>			<b>575.9234</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day					
Hauling	0.0300	0.2922	0.4495	8.8000e-004	0.0209	4.2000e-003	0.0251	5.7200e-003	3.8700e-003	9.5900e-003		87.3743	87.3743	6.1000e-004		87.3871
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1639</b>	<b>0.5152</b>	<b>2.3470</b>	<b>3.8900e-003</b>	<b>0.2674</b>	<b>6.6400e-003</b>	<b>0.2740</b>	<b>0.0711</b>	<b>6.1100e-003</b>	<b>0.0772</b>		<b>329.2521</b>	<b>329.2521</b>	<b>0.0175</b>		<b>329.6189</b>

**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	0.4131	4.3421	4.0325	5.6000e-003		0.2826	0.2826		0.2600	0.2600	0.0000	572.2414	572.2414	0.1753		575.9234
<b>Total</b>	<b>0.4131</b>	<b>4.3421</b>	<b>4.0325</b>	<b>5.6000e-003</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>	<b>0.0000</b>	<b>572.2414</b>	<b>572.2414</b>	<b>0.1753</b>		<b>575.9234</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day					
Hauling	0.0300	0.2922	0.4495	8.8000e-004	0.0209	4.2000e-003	0.0251	5.7200e-003	3.8700e-003	9.5900e-003		87.3743	87.3743	6.1000e-004		87.3871
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1639</b>	<b>0.5152</b>	<b>2.3470</b>	<b>3.8900e-003</b>	<b>0.2674</b>	<b>6.6400e-003</b>	<b>0.2740</b>	<b>0.0711</b>	<b>6.1100e-003</b>	<b>0.0772</b>		<b>329.2521</b>	<b>329.2521</b>	<b>0.0175</b>		<b>329.6189</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Archit. Coating	7.7102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4219	3.6528	2.4982	3.0500e-003		0.3014	0.3014		0.2773	0.2773		312.5095	312.5095	0.0958		314.5203
<b>Total</b>	<b>8.1320</b>	<b>3.6528</b>	<b>2.4982</b>	<b>3.0500e-003</b>		<b>0.3014</b>	<b>0.3014</b>		<b>0.2773</b>	<b>0.2773</b>		<b>312.5095</b>	<b>312.5095</b>	<b>0.0958</b>		<b>314.5203</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Hauling	0.0449	0.4380	0.6737	1.3300e-003	0.0313	6.3000e-003	0.0376	8.5800e-003	5.7900e-003	0.0144		130.9604	130.9604	9.2000e-004		130.9796
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	0.2232	0.3716	3.1626	5.0200e-003	0.4107	4.0600e-003	0.4148	0.1090	3.7300e-003	0.1127		403.1297	403.1297	0.0281		403.7196
<b>Total</b>	<b>0.2682</b>	<b>0.8096</b>	<b>3.8363</b>	<b>6.3500e-003</b>	<b>0.4421</b>	<b>0.0104</b>	<b>0.4524</b>	<b>0.1175</b>	<b>9.5200e-003</b>	<b>0.1271</b>		<b>534.0900</b>	<b>534.0900</b>	<b>0.0290</b>		<b>534.6992</b>

**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	7.7102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4219	3.6528	2.4982	3.0500e-003		0.3014	0.3014		0.2773	0.2773	0.0000	312.5095	312.5095	0.0958		314.5203
<b>Total</b>	<b>8.1320</b>	<b>3.6528</b>	<b>2.4982</b>	<b>3.0500e-003</b>		<b>0.3014</b>	<b>0.3014</b>		<b>0.2773</b>	<b>0.2773</b>	<b>0.0000</b>	<b>312.5095</b>	<b>312.5095</b>	<b>0.0958</b>		<b>314.5203</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Hauling	0.0449	0.4380	0.6737	1.3300e-003	0.0313	6.3000e-003	0.0376	8.5800e-003	5.7900e-003	0.0144		130.9604	130.9604	9.2000e-004		130.9796
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	0.2232	0.3716	3.1626	5.0200e-003	0.4107	4.0600e-003	0.4148	0.1090	3.7300e-003	0.1127		403.1297	403.1297	0.0281		403.7196
<b>Total</b>	<b>0.2682</b>	<b>0.8096</b>	<b>3.8363</b>	<b>6.3500e-003</b>	<b>0.4421</b>	<b>0.0104</b>	<b>0.4524</b>	<b>0.1175</b>	<b>9.5200e-003</b>	<b>0.1271</b>		<b>534.0900</b>	<b>534.0900</b>	<b>0.0290</b>		<b>534.6992</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Off-Road	2.8804	30.0880	16.2494	0.0286		1.5757	1.5757		1.4497	1.4497		2,922.5633	2,922.5633	0.8955		2,941.3681
<b>Total</b>	<b>2.8804</b>	<b>30.0880</b>	<b>16.2494</b>	<b>0.0286</b>		<b>1.5757</b>	<b>1.5757</b>		<b>1.4497</b>	<b>1.4497</b>		<b>2,922.5633</b>	<b>2,922.5633</b>	<b>0.8955</b>		<b>2,941.3681</b>



**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Hauling	0.0301	0.2936	0.4515	8.9000e-004	0.0210	4.2200e-003	0.0252	5.7500e-003	3.8800e-003	9.6300e-003		87.7773	87.7773	6.1000e-004		87.7902
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1641</b>	<b>0.5165</b>	<b>2.3491</b>	<b>3.9000e-003</b>	<b>0.2674</b>	<b>6.6600e-003</b>	<b>0.2741</b>	<b>0.0711</b>	<b>6.1200e-003</b>	<b>0.0772</b>		<b>329.6551</b>	<b>329.6551</b>	<b>0.0175</b>		<b>330.0219</b>

**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	2.8804	30.0880	16.2494	0.0286		1.5757	1.5757		1.4497	1.4497	0.0000	2,922.5633	2,922.5633	0.8955		2,941.3681
<b>Total</b>	<b>2.8804</b>	<b>30.0880</b>	<b>16.2494</b>	<b>0.0286</b>		<b>1.5757</b>	<b>1.5757</b>		<b>1.4497</b>	<b>1.4497</b>	<b>0.0000</b>	<b>2,922.5633</b>	<b>2,922.5633</b>	<b>0.8955</b>		<b>2,941.3681</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Hauling	0.0301	0.2936	0.4515	8.9000e-004	0.0210	4.2200e-003	0.0252	5.7500e-003	3.8800e-003	9.6300e-003		87.7773	87.7773	6.1000e-004		87.7902
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1641</b>	<b>0.5165</b>	<b>2.3491</b>	<b>3.9000e-003</b>	<b>0.2674</b>	<b>6.6600e-003</b>	<b>0.2741</b>	<b>0.0711</b>	<b>6.1200e-003</b>	<b>0.0772</b>		<b>329.6551</b>	<b>329.6551</b>	<b>0.0175</b>		<b>330.0219</b>

**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	lb/day										lb/day					
Mitigated	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.9443	1,396.9443	0.0742		1,398.5021
Unmitigated	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.9443	1,396.9443	0.0742		1,398.5021

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	180.00	180.00	180.00	518,560	518,560
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>180.00</b>	<b>180.00</b>	<b>180.00</b>	<b>518,560</b>	<b>518,560</b>

### 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
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
0.466577	0.039911	0.201733	0.176253	0.050904	0.007245	0.019183	0.021019	0.004490	0.001936	0.007540	0.000947	0.002261

### 5.0 Energy Detail

#### 4.4 Fleet Mix

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
NaturalGas Unmitigated	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665

### 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					
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
Condo/Townhouse	1280.52	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
<b>Total</b>		<b>0.0138</b>	<b>0.1180</b>	<b>0.0502</b>	<b>7.5000e-004</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>150.6497</b>	<b>150.6497</b>	<b>2.8900e-003</b>	<b>2.7600e-003</b>	<b>151.5665</b>

### 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					
Condo/Townhouse	1.28052	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
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
<b>Total</b>		<b>0.0138</b>	<b>0.1180</b>	<b>0.0502</b>	<b>7.5000e-004</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>150.6497</b>	<b>150.6497</b>	<b>2.8900e-003</b>	<b>2.7600e-003</b>	<b>151.5665</b>

### 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	lb/day										lb/day					
Mitigated	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Unmitigated	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608

## 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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	36.7295	0.4983	45.2468	0.0177		6.3569	6.3569		6.3567	6.3567	666.5215	279.5294	946.0510	0.6151	0.0524	975.2202
Landscaping	0.0623	0.0233	2.0001	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5655	3.5655	3.5800e-003		3.6406
<b>Total</b>	<b>38.3763</b>	<b>0.5216</b>	<b>47.2468</b>	<b>0.0178</b>		<b>6.3678</b>	<b>6.3678</b>		<b>6.3676</b>	<b>6.3676</b>	<b>666.5215</b>	<b>283.0949</b>	<b>949.6164</b>	<b>0.6187</b>	<b>0.0524</b>	<b>978.8608</b>

## 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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	36.7295	0.4983	45.2468	0.0177		6.3569	6.3569		6.3567	6.3567	666.5215	279.5294	946.0510	0.6151	0.0524	975.2202
Landscaping	0.0623	0.0233	2.0001	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5655	3.5655	3.5800e-003		3.6406
<b>Total</b>	<b>38.3763</b>	<b>0.5216</b>	<b>47.2468</b>	<b>0.0178</b>		<b>6.3678</b>	<b>6.3678</b>		<b>6.3676</b>	<b>6.3676</b>	<b>666.5215</b>	<b>283.0949</b>	<b>949.6164</b>	<b>0.6187</b>	<b>0.0524</b>	<b>978.8608</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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**PBC Inclusionary Housing - BAU  
Monterey County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.92	Acre	0.92	40,075.20	0
Condo/Townhouse	24.00	Dwelling Unit	1.78	24,000.00	69

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.8	<b>Precipitation Freq (Days)</b>	51
<b>Climate Zone</b>	4			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	453	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Project Characteristics - PGE 2012 - no RPS adjustment

Land Use - 2.7 acre total development. 0.92 acres of parking (35,000 sf of parking, 5,000 sf of walkways), remainder is buildings

Construction Phase - schedule from applicant

Off-road Equipment - Finish sitework equip from applicant. "other" is the auger.

Off-road Equipment - Finishes equip from applicant

Off-road Equipment - Foundations equip from applicant

Off-road Equipment - Rough framing equip from applicant

Off-road Equipment - Equip from applicant. Dozer represents "forestry equipment"

Off-road Equipment - additional phase is for Paving VOC only

Trips and VMT - Trips from project applicant. All using "hauling" factors (HHDT, 20 mi r/t). Assumes 2 ADT/worker/day.

Grading - 2.7 acre site per PD, 3,325 cy cut and fill balanced onsite

Vehicle Trips - 6.65 adt/du per tia.

Vehicle Emission Factors - CO2 rates adjusted to remove state measures

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - default stove and fireplace settings

Consumer Products - default consumer products

Area Coating - default coating settings (250 g/L) and 10% reapplication rate

Energy Use - default energy use

Water And Wastewater - default water use

Solid Waste - default waste

Land Use Change -

Sequestration - -590 oak trees = hardwood. -135 Monterey Pines = Pine. 174 New trees assumed to be "miscellaneous".

Construction Off-road Equipment Mitigation - Watering 3x mit

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	3.00	77.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	8/24/2017	7/28/2017
tblConstructionPhase	PhaseEndDate	4/27/2017	4/28/2017
tblConstructionPhase	PhaseEndDate	1/12/2017	1/13/2017
tblConstructionPhase	PhaseEndDate	1/26/2017	10/28/2016
tblConstructionPhase	PhaseEndDate	10/26/2017	10/27/2017
tblConstructionPhase	PhaseStartDate	4/29/2017	4/3/2017
tblConstructionPhase	PhaseStartDate	1/14/2017	1/16/2017
tblConstructionPhase	PhaseStartDate	10/29/2016	10/31/2016
tblConstructionPhase	PhaseStartDate	10/29/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	7/29/2017	7/31/2017
tblGrading	AcresOfGrading	24.38	2.70
tblGrading	AcresOfGrading	38.50	2.70
tblGrading	MaterialExported	0.00	3,325.00
tblGrading	MaterialImported	0.00	3,325.00
tblLandUse	LotAcreage	1.50	1.78
tblOffRoadEquipment	UsageHours	7.00	6.00

tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	453
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	PrecipitationFrequency	55	51
tblSequestration	NumberOfNewTrees	0.00	174.00
tblSequestration	NumberOfNewTrees	0.00	-590.00
tblSequestration	NumberOfNewTrees	0.00	-135.00
tblTripsAndVMT	HaulingTripNumber	831.00	102.00
tblTripsAndVMT	HaulingTripNumber	0.00	79.00
tblTripsAndVMT	HaulingTripNumber	0.00	107.00
tblTripsAndVMT	HaulingTripNumber	0.00	182.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	HaulingVehicleClass		HHDT
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	VendorVehicleClass		HDT_Mix
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	34.00	30.00
tblTripsAndVMT	WorkerTripNumber	7.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerVehicleClass		LD_Mix
tblVehicleEF	LDA	281.47	361.13
tblVehicleEF	LDA	58.96	73.19
tblVehicleEF	LDT1	347.51	418.83
tblVehicleEF	LDT1	71.63	84.83
tblVehicleEF	LDT2	414.17	494.19
tblVehicleEF	LDT2	85.19	100.31
tblVehicleEF	MDV	544.27	625.72

tblVehicleEF	MDV	111.66	125.87
tblVehicleTrips	ST_TR	7.16	7.50
tblVehicleTrips	SU_TR	6.07	7.50
tblVehicleTrips	WD_TR	6.59	7.50

## 2.0 Emissions Summary

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**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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Energy	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	53.4486	53.4486	2.3000e-003	8.3000e-004	53.7558
Mobile	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	268.8586	268.8586	0.0122	0.0000	269.1154
Waste						0.0000	0.0000		0.0000	0.0000	2.2410	0.0000	2.2410	0.1324	0.0000	5.0223
Water						0.0000	0.0000		0.0000	0.0000	0.4961	2.4475	2.9436	0.0511	1.2400e-003	4.4000
<b>Total</b>	<b>1.9510</b>	<b>0.4306</b>	<b>3.8260</b>	<b>3.8800e-003</b>	<b>0.1940</b>	<b>0.2683</b>	<b>0.4624</b>	<b>0.0520</b>	<b>0.2680</b>	<b>0.3199</b>	<b>27.5281</b>	<b>335.5561</b>	<b>363.0842</b>	<b>0.2214</b>	<b>4.0200e-003</b>	<b>368.9792</b>

**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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Energy	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	53.4486	53.4486	2.3000e-003	8.3000e-004	53.7558
Mobile	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	268.8586	268.8586	0.0122	0.0000	269.1154
Waste						0.0000	0.0000		0.0000	0.0000	2.2410	0.0000	2.2410	0.1324	0.0000	5.0223
Water						0.0000	0.0000		0.0000	0.0000	0.4961	2.4475	2.9436	0.0511	1.2300e-003	4.3992
<b>Total</b>	<b>1.9510</b>	<b>0.4306</b>	<b>3.8260</b>	<b>3.8800e-003</b>	<b>0.1940</b>	<b>0.2683</b>	<b>0.4624</b>	<b>0.0520</b>	<b>0.2680</b>	<b>0.3199</b>	<b>27.5281</b>	<b>335.5561</b>	<b>363.0842</b>	<b>0.2214</b>	<b>4.0100e-003</b>	<b>368.9784</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.25</b>	<b>0.00</b>

## 2.3 Vegetation

### Vegetation

	CO2e
Category	MT
New Trees	-395.9980
Vegetation Land Change	-299.7000
<b>Total</b>	<b>-695.6980</b>

## 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 excavation, rough grading, tree removal, site utilities	Site Preparation	8/1/2016	10/28/2016	6	77	
2	Site excavation, rough grading, tree removal, site utilities (PAVING ONLY)	Paving	8/1/2016	10/28/2016	6	77	
3	Foundations, finish grading	Grading	10/31/2016	1/13/2017	6	65	
4	Rough framing electrical, plumbing, sheetmetal, roof trusses	Building Construction	1/16/2017	4/28/2017	6	89	
5	Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Architectural Coating	4/3/2017	7/28/2017	6	101	
6	Finish sitework: driveways, exterior lighting, patios, landscaping	Trenching	7/31/2017	10/27/2017	6	77	

**Acres of Grading (Site Preparation Phase): 0**



**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 48,600; Residential Outdoor: 16,200; Non-Residential Indoor: 1,803; Non-Residential Outdoor: 601 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site excavation, rough grading, tree removal, site utilities	Graders	1	8.00	174	0.41
Site excavation, rough grading, tree removal, site utilities	Pavers	2	8.00	125	0.42
Site excavation, rough grading, tree removal, site utilities	Paving Equipment	2	8.00	130	0.36
Site excavation, rough grading, tree removal, site utilities	Rollers	1	6.00	80	0.38
Site excavation, rough grading, tree removal, site utilities	Rubber Tired Dozers	1	7.00	255	0.40
Site excavation, rough grading, tree removal, site utilities	Trenchers	1	8.00	80	0.50
Foundations, finish grading	Forklifts	2	8.00	89	0.20
Foundations, finish grading	Graders	1	6.00	174	0.41
Foundations, finish grading	Off-Highway Trucks	2	8.00	400	0.38
Rough framing electrical, plumbing, sheetmetal, roof trusses	Aerial Lifts	2	8.00	62	0.31
Rough framing electrical, plumbing, sheetmetal, roof trusses	Forklifts	2	6.00	89	0.20
Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Graders	1	8.00	174	0.41
Finish sitework: driveways, exterior lighting, patios, landscaping	Off-Highway Trucks	1	8.00	400	0.38
Finish sitework: driveways, exterior lighting, patios, landscaping	Other Construction Equipment	1	8.00	171	0.42

**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 excavation, rough grading, tree removal	8	30.00	0.00	102.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site excavation, rough grading, tree removal	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations, finish grading	5	30.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough framing, electrical, plumbing, s	4	30.00	0.00	107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finishes: sheetrock, closing walls, painting	2	50.00	0.00	182.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish sitework: driveways, exterior lig	5	30.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Site excavation, rough grading, tree removal, site utilities - 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					0.2048	0.0000	0.2048	0.1118	0.0000	0.1118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1666	1.7664	1.1248	1.4000e-003		0.0964	0.0964		0.0887	0.0887	0.0000	132.4737	132.4737	0.0400	0.0000	133.3128
<b>Total</b>	<b>0.1666</b>	<b>1.7664</b>	<b>1.1248</b>	<b>1.4000e-003</b>	<b>0.2048</b>	<b>0.0964</b>	<b>0.3012</b>	<b>0.1118</b>	<b>0.0887</b>	<b>0.2005</b>	<b>0.0000</b>	<b>132.4737</b>	<b>132.4737</b>	<b>0.0400</b>	<b>0.0000</b>	<b>133.3128</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	1.3200e-003	0.0139	0.0167	4.0000e-005	8.6000e-004	2.1000e-004	1.0700e-003	2.4000e-004	1.9000e-004	4.3000e-004	0.0000	3.4255	3.4255	2.0000e-005	0.0000	3.4260
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	5.5600e-003	8.7500e-003	0.0784	1.2000e-004	9.2000e-003	1.0000e-004	9.3000e-003	2.4500e-003	9.0000e-005	2.5400e-003	0.0000	8.8320	8.8320	6.5000e-004	0.0000	8.8456
<b>Total</b>	<b>6.8800e-003</b>	<b>0.0227</b>	<b>0.0950</b>	<b>1.6000e-004</b>	<b>0.0101</b>	<b>3.1000e-004</b>	<b>0.0104</b>	<b>2.6900e-003</b>	<b>2.8000e-004</b>	<b>2.9700e-003</b>	<b>0.0000</b>	<b>12.2575</b>	<b>12.2575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>12.2716</b>

**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					0.0799	0.0000	0.0799	0.0436	0.0000	0.0436	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1666	1.7664	1.1248	1.4000e-003		0.0964	0.0964		0.0887	0.0887	0.0000	132.4735	132.4735	0.0400	0.0000	133.3127
<b>Total</b>	<b>0.1666</b>	<b>1.7664</b>	<b>1.1248</b>	<b>1.4000e-003</b>	<b>0.0799</b>	<b>0.0964</b>	<b>0.1763</b>	<b>0.0436</b>	<b>0.0887</b>	<b>0.1323</b>	<b>0.0000</b>	<b>132.4735</b>	<b>132.4735</b>	<b>0.0400</b>	<b>0.0000</b>	<b>133.3127</b>





**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.4 Foundations, finish 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					1.4300e-003	0.0000	1.4300e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9017	0.4409	9.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	86.6643	86.6643	0.0261	0.0000	87.2133
<b>Total</b>	<b>0.0838</b>	<b>0.9017</b>	<b>0.4409</b>	<b>9.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0427</b>	<b>0.0442</b>	<b>1.5000e-004</b>	<b>0.0393</b>	<b>0.0395</b>	<b>0.0000</b>	<b>86.6643</b>	<b>86.6643</b>	<b>0.0261</b>	<b>0.0000</b>	<b>87.2133</b>

### 3.4 Foundations, finish 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	8.5000e-004	8.9600e-003	0.0107	2.0000e-005	6.4000e-004	1.3000e-004	7.7000e-004	1.7000e-004	1.2000e-004	3.0000e-004	0.0000	2.2041	2.2041	2.0000e-005	0.0000	2.2044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	6.1400e-003	0.0550	8.0000e-005	6.4500e-003	7.0000e-005	6.5200e-003	1.7200e-003	6.0000e-005	1.7800e-003	0.0000	6.1939	6.1939	4.5000e-004	0.0000	6.2034
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0151</b>	<b>0.0657</b>	<b>1.0000e-004</b>	<b>7.0900e-003</b>	<b>2.0000e-004</b>	<b>7.2900e-003</b>	<b>1.8900e-003</b>	<b>1.8000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>8.3979</b>	<b>8.3979</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.4078</b>

#### 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					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9017	0.4409	9.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	86.6642	86.6642	0.0261	0.0000	87.2132
<b>Total</b>	<b>0.0838</b>	<b>0.9017</b>	<b>0.4409</b>	<b>9.2000e-004</b>	<b>5.6000e-004</b>	<b>0.0427</b>	<b>0.0433</b>	<b>6.0000e-005</b>	<b>0.0393</b>	<b>0.0394</b>	<b>0.0000</b>	<b>86.6642</b>	<b>86.6642</b>	<b>0.0261</b>	<b>0.0000</b>	<b>87.2132</b>

### 3.4 Foundations, finish 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	8.5000e-004	8.9600e-003	0.0107	2.0000e-005	6.4000e-004	1.3000e-004	7.7000e-004	1.7000e-004	1.2000e-004	3.0000e-004	0.0000	2.2041	2.2041	2.0000e-005	0.0000	2.2044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	6.1400e-003	0.0550	8.0000e-005	6.4500e-003	7.0000e-005	6.5200e-003	1.7200e-003	6.0000e-005	1.7800e-003	0.0000	6.1939	6.1939	4.5000e-004	0.0000	6.2034
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0151</b>	<b>0.0657</b>	<b>1.0000e-004</b>	<b>7.0900e-003</b>	<b>2.0000e-004</b>	<b>7.2900e-003</b>	<b>1.8900e-003</b>	<b>1.8000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>8.3979</b>	<b>8.3979</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.4078</b>

### 3.4 Foundations, finish grading - 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					
Fugitive Dust					1.4300e-003	0.0000	1.4300e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1680	0.0852	1.9000e-004		7.9100e-003	7.9100e-003		7.2700e-003	7.2700e-003	0.0000	17.3597	17.3597	5.3200e-003	0.0000	17.4714
<b>Total</b>	<b>0.0158</b>	<b>0.1680</b>	<b>0.0852</b>	<b>1.9000e-004</b>	<b>1.4300e-003</b>	<b>7.9100e-003</b>	<b>9.3400e-003</b>	<b>1.5000e-004</b>	<b>7.2700e-003</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>17.3597</b>	<b>17.3597</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>17.4714</b>



### 3.4 Foundations, finish grading - 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	1.5000e-004	1.6000e-003	2.0300e-003	0.0000	5.3000e-004	2.0000e-005	5.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.4413	0.4413	0.0000	0.0000	0.4414
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	6.9000e-004	1.1200e-003	9.9000e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2138	1.2138	8.0000e-005	0.0000	1.2156
<b>Total</b>	<b>8.4000e-004</b>	<b>2.7200e-003</b>	<b>0.0119</b>	<b>2.0000e-005</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8900e-003</b>	<b>4.8000e-004</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6552</b>	<b>1.6552</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.6570</b>

#### 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					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1680	0.0852	1.9000e-004		7.9100e-003	7.9100e-003		7.2700e-003	7.2700e-003	0.0000	17.3597	17.3597	5.3200e-003	0.0000	17.4714
<b>Total</b>	<b>0.0158</b>	<b>0.1680</b>	<b>0.0852</b>	<b>1.9000e-004</b>	<b>5.6000e-004</b>	<b>7.9100e-003</b>	<b>8.4700e-003</b>	<b>6.0000e-005</b>	<b>7.2700e-003</b>	<b>7.3300e-003</b>	<b>0.0000</b>	<b>17.3597</b>	<b>17.3597</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>17.4714</b>

### 3.4 Foundations, finish grading - 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	1.5000e-004	1.6000e-003	2.0300e-003	0.0000	5.3000e-004	2.0000e-005	5.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.4413	0.4413	0.0000	0.0000	0.4414
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	6.9000e-004	1.1200e-003	9.9000e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2138	1.2138	8.0000e-005	0.0000	1.2156
<b>Total</b>	<b>8.4000e-004</b>	<b>2.7200e-003</b>	<b>0.0119</b>	<b>2.0000e-005</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8900e-003</b>	<b>4.8000e-004</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6552</b>	<b>1.6552</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.6570</b>

### 3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	0.0184	0.1932	0.1795	2.5000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.1012	23.1012	7.0800e-003	0.0000	23.2499
<b>Total</b>	<b>0.0184</b>	<b>0.1932</b>	<b>0.1795</b>	<b>2.5000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>23.1012</b>	<b>23.1012</b>	<b>7.0800e-003</b>	<b>0.0000</b>	<b>23.2499</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	1.2200e-003	0.0128	0.0163	4.0000e-005	9.1000e-004	1.9000e-004	1.0900e-003	2.5000e-004	1.7000e-004	4.2000e-004	0.0000	3.5322	3.5322	2.0000e-005	0.0000	3.5327
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	5.5700e-003	9.0300e-003	0.0801	1.3000e-004	0.0106	1.1000e-004	0.0107	2.8300e-003	1.0000e-004	2.9300e-003	0.0000	9.8211	9.8211	6.8000e-004	0.0000	9.8354
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0218</b>	<b>0.0964</b>	<b>1.7000e-004</b>	<b>0.0115</b>	<b>3.0000e-004</b>	<b>0.0118</b>	<b>3.0800e-003</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.3533</b>	<b>13.3533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>13.3681</b>

**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	0.0184	0.1932	0.1795	2.5000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.1012	23.1012	7.0800e-003	0.0000	23.2498
<b>Total</b>	<b>0.0184</b>	<b>0.1932</b>	<b>0.1795</b>	<b>2.5000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>23.1012</b>	<b>23.1012</b>	<b>7.0800e-003</b>	<b>0.0000</b>	<b>23.2498</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	1.2200e-003	0.0128	0.0163	4.0000e-005	9.1000e-004	1.9000e-004	1.0900e-003	2.5000e-004	1.7000e-004	4.2000e-004	0.0000	3.5322	3.5322	2.0000e-005	0.0000	3.5327
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	5.5700e-003	9.0300e-003	0.0801	1.3000e-004	0.0106	1.1000e-004	0.0107	2.8300e-003	1.0000e-004	2.9300e-003	0.0000	9.8211	9.8211	6.8000e-004	0.0000	9.8354
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0218</b>	<b>0.0964</b>	<b>1.7000e-004</b>	<b>0.0115</b>	<b>3.0000e-004</b>	<b>0.0118</b>	<b>3.0800e-003</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.3533</b>	<b>13.3533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>13.3681</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	0.3894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.1845	0.1262	1.5000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	14.3170	14.3170	4.3900e-003	0.0000	14.4091
<b>Total</b>	<b>0.4107</b>	<b>0.1845</b>	<b>0.1262</b>	<b>1.5000e-004</b>		<b>0.0152</b>	<b>0.0152</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>14.3170</b>	<b>14.3170</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>14.4091</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	2.0800e-003	0.0218	0.0277	7.0000e-005	1.5400e-003	3.2000e-004	1.8600e-003	4.2000e-004	2.9000e-004	7.1000e-004	0.0000	6.0080	6.0080	4.0000e-005	0.0000	6.0089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	0.0171	0.1515	2.5000e-004	0.0201	2.1000e-004	0.0203	5.3500e-003	1.9000e-004	5.5400e-003	0.0000	18.5755	18.5755	1.2900e-003	0.0000	18.6025
<b>Total</b>	<b>0.0126</b>	<b>0.0388</b>	<b>0.1792</b>	<b>3.2000e-004</b>	<b>0.0217</b>	<b>5.3000e-004</b>	<b>0.0222</b>	<b>5.7700e-003</b>	<b>4.8000e-004</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>24.5835</b>	<b>24.5835</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>24.6113</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.1845	0.1262	1.5000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	14.3169	14.3169	4.3900e-003	0.0000	14.4091
<b>Total</b>	<b>0.4107</b>	<b>0.1845</b>	<b>0.1262</b>	<b>1.5000e-004</b>		<b>0.0152</b>	<b>0.0152</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>14.3169</b>	<b>14.3169</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>14.4091</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	2.0800e-003	0.0218	0.0277	7.0000e-005	1.5400e-003	3.2000e-004	1.8600e-003	4.2000e-004	2.9000e-004	7.1000e-004	0.0000	6.0080	6.0080	4.0000e-005	0.0000	6.0089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	0.0171	0.1515	2.5000e-004	0.0201	2.1000e-004	0.0203	5.3500e-003	1.9000e-004	5.5400e-003	0.0000	18.5755	18.5755	1.2900e-003	0.0000	18.6025
<b>Total</b>	<b>0.0126</b>	<b>0.0388</b>	<b>0.1792</b>	<b>3.2000e-004</b>	<b>0.0217</b>	<b>5.3000e-004</b>	<b>0.0222</b>	<b>5.7700e-003</b>	<b>4.8000e-004</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>24.5835</b>	<b>24.5835</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>24.6113</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	0.1109	1.1584	0.6256	1.1000e-003		0.0607	0.0607		0.0558	0.0558	0.0000	102.0752	102.0752	0.0313	0.0000	102.7320
<b>Total</b>	<b>0.1109</b>	<b>1.1584</b>	<b>0.6256</b>	<b>1.1000e-003</b>		<b>0.0607</b>	<b>0.0607</b>		<b>0.0558</b>	<b>0.0558</b>	<b>0.0000</b>	<b>102.0752</b>	<b>102.0752</b>	<b>0.0313</b>	<b>0.0000</b>	<b>102.7320</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	1.0600e-003	0.0111	0.0142	3.0000e-005	7.9000e-004	1.6000e-004	9.5000e-004	2.2000e-004	1.5000e-004	3.7000e-004	0.0000	3.0700	3.0700	2.0000e-005	0.0000	3.0705
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	4.8200e-003	7.8100e-003	0.0693	1.2000e-004	9.2000e-003	9.0000e-005	9.2900e-003	2.4500e-003	9.0000e-005	2.5300e-003	0.0000	8.4969	8.4969	5.9000e-004	0.0000	8.5093
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0189</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>9.9900e-003</b>	<b>2.5000e-004</b>	<b>0.0102</b>	<b>2.6700e-003</b>	<b>2.4000e-004</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>11.5669</b>	<b>11.5669</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>11.5797</b>

**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	0.1109	1.1584	0.6256	1.1000e-003		0.0607	0.0607		0.0558	0.0558	0.0000	102.0751	102.0751	0.0313	0.0000	102.7319
<b>Total</b>	<b>0.1109</b>	<b>1.1584</b>	<b>0.6256</b>	<b>1.1000e-003</b>		<b>0.0607</b>	<b>0.0607</b>		<b>0.0558</b>	<b>0.0558</b>	<b>0.0000</b>	<b>102.0751</b>	<b>102.0751</b>	<b>0.0313</b>	<b>0.0000</b>	<b>102.7319</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	1.0600e-003	0.0111	0.0142	3.0000e-005	7.9000e-004	1.6000e-004	9.5000e-004	2.2000e-004	1.5000e-004	3.7000e-004	0.0000	3.0700	3.0700	2.0000e-005	0.0000	3.0705
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	4.8200e-003	7.8100e-003	0.0693	1.2000e-004	9.2000e-003	9.0000e-005	9.2900e-003	2.4500e-003	9.0000e-005	2.5300e-003	0.0000	8.4969	8.4969	5.9000e-004	0.0000	8.5093
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0189</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>9.9900e-003</b>	<b>2.5000e-004</b>	<b>0.0102</b>	<b>2.6700e-003</b>	<b>2.4000e-004</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>11.5669</b>	<b>11.5669</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>11.5797</b>

**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	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	268.8586	268.8586	0.0122	0.0000	269.1154
Unmitigated	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	268.8586	268.8586	0.0122	0.0000	269.1154



### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	180.00	180.00	180.00	518,560	518,560
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>180.00</b>	<b>180.00</b>	<b>180.00</b>	<b>518,560</b>	<b>518,560</b>

### 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
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
0.466577	0.039911	0.201733	0.176253	0.050904	0.007245	0.019183	0.021019	0.004490	0.001936	0.007540	0.000947	0.002261

### 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	28.5069	28.5069	1.8200e-003	3.8000e-004	28.6623
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	28.5069	28.5069	1.8200e-003	3.8000e-004	28.6623
NaturalGas Mitigated	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935
NaturalGas Unmitigated	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935

**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					
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	467391	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935
<b>Total</b>		<b>2.5200e-003</b>	<b>0.0215</b>	<b>9.1600e-003</b>	<b>1.4000e-004</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>24.9417</b>	<b>24.9417</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>25.0935</b>

### 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					
Condo/Townhouse	467391	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935
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
<b>Total</b>		<b>2.5200e-003</b>	<b>0.0215</b>	<b>9.1600e-003</b>	<b>1.4000e-004</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>24.9417</b>	<b>24.9417</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>25.0935</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	103469	21.2605	1.3600e-003	2.8000e-004	21.3764
Parking Lot	35266.2	7.2464	4.6000e-004	1.0000e-004	7.2859
<b>Total</b>		<b>28.5069</b>	<b>1.8200e-003</b>	<b>3.8000e-004</b>	<b>28.6623</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	103469	21.2605	1.3600e-003	2.8000e-004	21.3764
Parking Lot	35266.2	7.2464	4.6000e-004	1.0000e-004	7.2859
<b>Total</b>		<b>28.5069</b>	<b>1.8200e-003</b>	<b>3.8000e-004</b>	<b>28.6623</b>

### 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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Unmitigated	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857

## 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	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5059	0.0204	1.8551	7.2000e-004		0.2606	0.2606		0.2606	0.2606	24.7910	10.3970	35.1880	0.0229	1.9500e-003	36.2729
Landscaping	7.7900e-003	2.9100e-003	0.2500	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.1000e-004	0.0000	0.4128
<b>Total</b>	<b>1.8029</b>	<b>0.0233</b>	<b>2.1051</b>	<b>7.3000e-004</b>		<b>0.2620</b>	<b>0.2620</b>		<b>0.2620</b>	<b>0.2620</b>	<b>24.7910</b>	<b>10.8013</b>	<b>35.5923</b>	<b>0.0233</b>	<b>1.9500e-003</b>	<b>36.6857</b>

## 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	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5059	0.0204	1.8551	7.2000e-004		0.2606	0.2606		0.2606	0.2606	24.7910	10.3970	35.1880	0.0229	1.9500e-003	36.2729
Landscaping	7.7900e-003	2.9100e-003	0.2500	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.1000e-004	0.0000	0.4128
<b>Total</b>	<b>1.8029</b>	<b>0.0233</b>	<b>2.1051</b>	<b>7.3000e-004</b>		<b>0.2620</b>	<b>0.2620</b>		<b>0.2620</b>	<b>0.2620</b>	<b>24.7910</b>	<b>10.8013</b>	<b>35.5923</b>	<b>0.0233</b>	<b>1.9500e-003</b>	<b>36.6857</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9436	0.0511	1.2300e-003	4.3992
Unmitigated	2.9436	0.0511	1.2400e-003	4.4000

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.5637 / 0.985809	2.9436	0.0511	1.2400e-003	4.4000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.9436</b>	<b>0.0511</b>	<b>1.2400e-003</b>	<b>4.4000</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.5637 / 0.985809	2.9436	0.0511	1.2300e-003	4.3992
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.9436</b>	<b>0.0511</b>	<b>1.2300e-003</b>	<b>4.3992</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2410	0.1324	0.0000	5.0223
Unmitigated	2.2410	0.1324	0.0000	5.0223

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	11.04	2.2410	0.1324	0.0000	5.0223
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.2410</b>	<b>0.1324</b>	<b>0.0000</b>	<b>5.0223</b>



### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	11.04	2.2410	0.1324	0.0000	5.0223
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.2410</b>	<b>0.1324</b>	<b>0.0000</b>	<b>5.0223</b>

### 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	-695.6980	0.0000	0.0000	-695.6980

### 10.1 Vegetation Land Change

#### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	2.7 / 0	-299.7000	0.0000	0.0000	-299.7000
<b>Total</b>		<b>-299.7000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-299.7000</b>

### 10.2 Net New Trees

#### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	174	123.1920	0.0000	0.0000	123.1920
Mixed Hardwood	-590	-433.0600	0.0000	0.0000	-433.0600
Pine	-135	-86.1300	0.0000	0.0000	-86.1300
<b>Total</b>		<b>-395.9980</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-395.9980</b>

**PBC Inclusionary Housing - with Mitigation and State Measures**  
**Monterey County, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.92	Acre	0.92	40,075.20	0
Condo/Townhouse	24.00	Dwelling Unit	1.78	24,000.00	69

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.8	<b>Precipitation Freq (Days)</b>	51
<b>Climate Zone</b>	4			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	290	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - PGE 2020 RPS-adjusted:

[http://www.pge.com/includes/docs/pdfs/shared/environment/calculator/pge\\_ghg\\_emission\\_factor\\_info\\_sheet.pdf](http://www.pge.com/includes/docs/pdfs/shared/environment/calculator/pge_ghg_emission_factor_info_sheet.pdf)

Land Use - 2.7 acre total development. 0.92 acres of parking (35,000 sf of parking, 5,000 sf of walkways), remainder is buildings

Construction Phase - schedule from applicant

Off-road Equipment - Finish sitework equip from applicant. "other" is the auger.

Off-road Equipment - Finishes equip from applicant

Off-road Equipment - Foundations equip from applicant

Off-road Equipment - Rough framing equip from applicant

Off-road Equipment - Equip from applicant. Dozer represents "forestry equipment"

Off-road Equipment - additional phase is for Paving VOC only

Trips and VMT - Trips from project applicant. All using "hauling" factors (HHDT, 20 mi r/t). Assumes 2 ADT/worker/day.

Grading - 2.7 acre site per PD, 3,325 cy cut and fill balanced onsite

Vehicle Trips - 6.65 adt/du per tia.

Vehicle Emission Factors - CO2 rates include pav1, pav2, and lcfs reductions shown in analysis

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - default stove and fireplace settings

Consumer Products - default consumer products

Area Coating - default coating settings (250 g/L) and 10% reapplication rate

Energy Use - default energy use

Water And Wastewater - default water use

Solid Waste - default waste

Land Use Change -

Sequestration - -590 oak trees = hardwood. -135 Monterey Pines = Pine. 174 New trees assumed to be "miscellaneous". Plus 348 new "misc" as mitigation.

Construction Off-road Equipment Mitigation - Watering 3x mit

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	3.00	77.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	8/24/2017	7/28/2017
tblConstructionPhase	PhaseEndDate	4/27/2017	4/28/2017
tblConstructionPhase	PhaseEndDate	1/12/2017	1/13/2017
tblConstructionPhase	PhaseEndDate	1/26/2017	10/28/2016
tblConstructionPhase	PhaseEndDate	10/26/2017	10/27/2017
tblConstructionPhase	PhaseStartDate	4/29/2017	4/3/2017
tblConstructionPhase	PhaseStartDate	1/14/2017	1/16/2017
tblConstructionPhase	PhaseStartDate	10/29/2016	10/31/2016
tblConstructionPhase	PhaseStartDate	10/29/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	7/29/2017	7/31/2017
tblGrading	AcresOfGrading	24.38	2.70
tblGrading	AcresOfGrading	38.50	2.70
tblGrading	MaterialExported	0.00	3,325.00
tblGrading	MaterialImported	0.00	3,325.00
tblLandUse	LotAcreage	1.50	1.78
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	PrecipitationFrequency	55	51
tblSequestration	NumberOfNewTrees	0.00	174.00
tblSequestration	NumberOfNewTrees	0.00	348.00
tblSequestration	NumberOfNewTrees	0.00	-590.00

tblSequestration	NumberOfNewTrees	0.00	-135.00
tblTripsAndVMT	HaulingTripNumber	831.00	102.00
tblTripsAndVMT	HaulingTripNumber	0.00	79.00
tblTripsAndVMT	HaulingTripNumber	0.00	107.00
tblTripsAndVMT	HaulingTripNumber	0.00	182.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	34.00	30.00
tblTripsAndVMT	WorkerTripNumber	7.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblVehicleEF	LDA	281.47	270.28
tblVehicleEF	LDA	58.96	67.63
tblVehicleEF	LDT1	347.51	313.47
tblVehicleEF	LDT1	71.63	78.38
tblVehicleEF	LDT2	414.17	369.87
tblVehicleEF	LDT2	85.19	92.69
tblVehicleEF	MDV	544.27	468.31
tblVehicleEF	MDV	111.66	116.30
tblVehicleTrips	ST_TR	7.16	7.50
tblVehicleTrips	SU_TR	6.07	7.50
tblVehicleTrips	WD_TR	6.59	7.50

## 2.0 Emissions Summary

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**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	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Energy	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
Mobile	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.944 3	1,396.944 3	0.0742		1,398.502 1
<b>Total</b>	<b>39.2485</b>	<b>2.8696</b>	<b>57.6217</b>	<b>0.0350</b>	<b>1.0991</b>	<b>6.4027</b>	<b>7.5018</b>	<b>0.2937</b>	<b>6.4005</b>	<b>6.6942</b>	<b>666.5215</b>	<b>1,830.688 8</b>	<b>2,497.210 4</b>	<b>0.6957</b>	<b>0.0552</b>	<b>2,528.929 3</b>

**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	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Energy	0.0115	0.0980	0.0417	6.3000e-004		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003		125.0854	125.0854	2.4000e-003	2.2900e-003	125.8466
Mobile	0.8552	2.2120	10.2604	0.0163	1.0885	0.0252	1.1137	0.2909	0.0232	0.3141		1,383.902 4	1,383.902 4	0.0735		1,385.446 8
<b>Total</b>	<b>39.2430</b>	<b>2.8316</b>	<b>57.5489</b>	<b>0.0347</b>	<b>1.0885</b>	<b>6.4009</b>	<b>7.4894</b>	<b>0.2909</b>	<b>6.3987</b>	<b>6.6895</b>	<b>666.5215</b>	<b>1,792.082 6</b>	<b>2,458.604 2</b>	<b>0.6946</b>	<b>0.0547</b>	<b>2,490.154 2</b>



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.01	1.32	0.13	0.77	0.96	0.03	0.17	0.96	0.03	0.07	0.00	2.11	1.55	0.16	0.85	1.53

### 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 excavation, rough grading, tree removal, site utilities	Site Preparation	8/1/2016	10/28/2016	6	77	
2	Site excavation, rough grading, tree removal, site utilities (PAVING ONLY)	Paving	8/1/2016	10/28/2016	6	77	
3	Foundations, finish grading	Grading	10/31/2016	1/13/2017	6	65	
4	Rough framing electrical, plumbing, sheetmetal, roof trusses	Building Construction	1/16/2017	4/28/2017	6	89	
5	Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Architectural Coating	4/3/2017	7/28/2017	6	101	
6	Finish sitework: driveways, exterior lighting, patios, landscaping	Trenching	7/31/2017	10/27/2017	6	77	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 48,600; Residential Outdoor: 16,200; Non-Residential Indoor: 1,803; Non-Residential Outdoor: 601 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site excavation, rough grading, tree removal, site utilities	Graders	1	8.00	174	0.41
Site excavation, rough grading, tree removal, site utilities	Pavers	2	8.00	125	0.42
Site excavation, rough grading, tree removal, site utilities	Paving Equipment	2	8.00	130	0.36
Site excavation, rough grading, tree removal, site utilities	Rollers	1	6.00	80	0.38
Site excavation, rough grading, tree removal, site utilities	Rubber Tired Dozers	1	7.00	255	0.40
Site excavation, rough grading, tree removal, site utilities	Trenchers	1	8.00	80	0.50
Foundations, finish grading	Forklifts	2	8.00	89	0.20
Foundations, finish grading	Graders	1	6.00	174	0.41
Foundations, finish grading	Off-Highway Trucks	2	8.00	400	0.38
Rough framing electrical, plumbing, sheetmetal, roof trusses	Aerial Lifts	2	8.00	62	0.31
Rough framing electrical, plumbing, sheetmetal, roof trusses	Forklifts	2	6.00	89	0.20
Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Graders	1	8.00	174	0.41
Finish sitework: driveways, exterior lighting, patios, landscaping	Off-Highway Trucks	1	8.00	400	0.38
Finish sitework: driveways, exterior lighting, patios, landscaping	Other Construction Equipment	1	8.00	171	0.42

**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 excavation, rough grading, tree removal	8	30.00	0.00	102.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site excavation, rough grading, tree removal				0.00	10.80	7.30				
Foundations, finish grading	5	30.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough framing electrical, plumbing, s	4	30.00	0.00	107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finishes: sheetrock, closing walls, painting	2	50.00	0.00	182.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish sitework: driveways, exterior li	5	30.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Site excavation, rough grading, tree removal, site utilities - 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					
Fugitive Dust					5.3199	0.0000	5.3199	2.9025	0.0000	2.9025			0.0000			0.0000
Off-Road	4.3268	45.8811	29.2162	0.0365		2.5042	2.5042		2.3039	2.3039		3,792.9150	3,792.9150	1.1441		3,816.9407
<b>Total</b>	<b>4.3268</b>	<b>45.8811</b>	<b>29.2162</b>	<b>0.0365</b>	<b>5.3199</b>	<b>2.5042</b>	<b>7.8241</b>	<b>2.9025</b>	<b>2.3039</b>	<b>5.2064</b>		<b>3,792.9150</b>	<b>3,792.9150</b>	<b>1.1441</b>		<b>3,816.9407</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	0.0379	0.3676	0.5278	9.8000e-004	0.0230	5.4200e-003	0.0285	6.3000e-003	4.9900e-003	0.0113		97.9406	97.9406	7.2000e-004		97.9557
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1928</b>	<b>0.6173</b>	<b>2.6814</b>	<b>4.0000e-003</b>	<b>0.2695</b>	<b>8.0100e-003</b>	<b>0.2775</b>	<b>0.0717</b>	<b>7.3600e-003</b>	<b>0.0790</b>		<b>349.3604</b>	<b>349.3604</b>	<b>0.0193</b>		<b>349.7651</b>

**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					2.0748	0.0000	2.0748	1.1320	0.0000	1.1320			0.0000			0.0000
Off-Road	4.3268	45.8811	29.2162	0.0365		2.5042	2.5042		2.3039	2.3039	0.0000	3,792.9150	3,792.9150	1.1441		3,816.9407
<b>Total</b>	<b>4.3268</b>	<b>45.8811</b>	<b>29.2162</b>	<b>0.0365</b>	<b>2.0748</b>	<b>2.5042</b>	<b>4.5790</b>	<b>1.1320</b>	<b>2.3039</b>	<b>3.4358</b>	<b>0.0000</b>	<b>3,792.9150</b>	<b>3,792.9150</b>	<b>1.1441</b>		<b>3,816.9407</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	0.0379	0.3676	0.5278	9.8000e-004	0.0230	5.4200e-003	0.0285	6.3000e-003	4.9900e-003	0.0113		97.9406	97.9406	7.2000e-004		97.9557
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1928</b>	<b>0.6173</b>	<b>2.6814</b>	<b>4.0000e-003</b>	<b>0.2695</b>	<b>8.0100e-003</b>	<b>0.2775</b>	<b>0.0717</b>	<b>7.3600e-003</b>	<b>0.0790</b>		<b>349.3604</b>	<b>349.3604</b>	<b>0.0193</b>		<b>349.7651</b>

**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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					
Paving	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.0313</b>					<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**3.3 Site excavation, rough grading, tree removal, site utilities  
(PAVING ONLY) - 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
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>					<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**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					
Paving	0.0313					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.0313</b>					<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>					<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

**3.4 Foundations, finish 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	lb/day										lb/day					
Fugitive Dust					0.0441	0.0000	0.0441	4.7600e-003	0.0000	4.7600e-003			0.0000			0.0000
Off-Road	3.1018	33.3954	16.3296	0.0341		1.5828	1.5828		1.4562	1.4562		3,538.188 1	3,538.188 1	1.0672		3,560.600 2
<b>Total</b>	<b>3.1018</b>	<b>33.3954</b>	<b>16.3296</b>	<b>0.0341</b>	<b>0.0441</b>	<b>1.5828</b>	<b>1.6269</b>	<b>4.7600e-003</b>	<b>1.4562</b>	<b>1.4610</b>		<b>3,538.188 1</b>	<b>3,538.188 1</b>	<b>1.0672</b>		<b>3,560.600 2</b>

### 3.4 Foundations, finish 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	lb/day										lb/day					
Hauling	0.0348	0.3373	0.4843	9.0000e-004	0.0244	4.9700e-003	0.0294	6.5900e-003	4.5800e-003	0.0112		89.8601	89.8601	6.6000e-004		89.8739
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1897</b>	<b>0.5870</b>	<b>2.6379</b>	<b>3.9200e-003</b>	<b>0.2709</b>	<b>7.5600e-003</b>	<b>0.2784</b>	<b>0.0720</b>	<b>6.9500e-003</b>	<b>0.0789</b>		<b>341.2799</b>	<b>341.2799</b>	<b>0.0192</b>		<b>341.6834</b>

#### 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					0.0172	0.0000	0.0172	1.8600e-003	0.0000	1.8600e-003			0.0000			0.0000
Off-Road	3.1018	33.3954	16.3296	0.0341		1.5828	1.5828		1.4562	1.4562	0.0000	3,538.188 1	3,538.188 1	1.0672		3,560.600 2
<b>Total</b>	<b>3.1018</b>	<b>33.3954</b>	<b>16.3296</b>	<b>0.0341</b>	<b>0.0172</b>	<b>1.5828</b>	<b>1.6000</b>	<b>1.8600e-003</b>	<b>1.4562</b>	<b>1.4581</b>	<b>0.0000</b>	<b>3,538.188 1</b>	<b>3,538.188 1</b>	<b>1.0672</b>		<b>3,560.600 2</b>



### 3.4 Foundations, finish 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	lb/day										lb/day					
Hauling	0.0348	0.3373	0.4843	9.0000e-004	0.0244	4.9700e-003	0.0294	6.5900e-003	4.5800e-003	0.0112		89.8601	89.8601	6.6000e-004		89.8739
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	0.1549	0.2497	2.1536	3.0200e-003	0.2464	2.5900e-003	0.2490	0.0654	2.3700e-003	0.0677		251.4198	251.4198	0.0186		251.8094
<b>Total</b>	<b>0.1897</b>	<b>0.5870</b>	<b>2.6379</b>	<b>3.9200e-003</b>	<b>0.2709</b>	<b>7.5600e-003</b>	<b>0.2784</b>	<b>0.0720</b>	<b>6.9500e-003</b>	<b>0.0789</b>		<b>341.2799</b>	<b>341.2799</b>	<b>0.0192</b>		<b>341.6834</b>

### 3.4 Foundations, finish grading - 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	lb/day										lb/day					
Fugitive Dust					0.0441	0.0000	0.0441	4.7600e-003	0.0000	4.7600e-003			0.0000			0.0000
Off-Road	2.8803	30.5525	15.4975	0.0340		1.4377	1.4377		1.3227	1.3227		3,479.2355	3,479.2355	1.0660		3,501.6221
<b>Total</b>	<b>2.8803</b>	<b>30.5525</b>	<b>15.4975</b>	<b>0.0340</b>	<b>0.0441</b>	<b>1.4377</b>	<b>1.4817</b>	<b>4.7600e-003</b>	<b>1.3227</b>	<b>1.3274</b>		<b>3,479.2355</b>	<b>3,479.2355</b>	<b>1.0660</b>		<b>3,501.6221</b>

### 3.4 Foundations, finish grading - 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	lb/day										lb/day					
Hauling	0.0303	0.2954	0.4544	8.9000e-004	0.1000	4.2500e-003	0.1043	0.0252	3.9100e-003	0.0291		88.3291	88.3291	6.2000e-004		88.3420
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1642</b>	<b>0.5184</b>	<b>2.3519</b>	<b>3.9000e-003</b>	<b>0.3465</b>	<b>6.6900e-003</b>	<b>0.3532</b>	<b>0.0905</b>	<b>6.1500e-003</b>	<b>0.0967</b>		<b>330.2069</b>	<b>330.2069</b>	<b>0.0175</b>		<b>330.5738</b>

#### 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					0.0172	0.0000	0.0172	1.8600e-003	0.0000	1.8600e-003			0.0000			0.0000
Off-Road	2.8803	30.5525	15.4975	0.0340		1.4377	1.4377		1.3227	1.3227	0.0000	3,479.2355	3,479.2355	1.0660		3,501.6221
<b>Total</b>	<b>2.8803</b>	<b>30.5525</b>	<b>15.4975</b>	<b>0.0340</b>	<b>0.0172</b>	<b>1.4377</b>	<b>1.4549</b>	<b>1.8600e-003</b>	<b>1.3227</b>	<b>1.3245</b>	<b>0.0000</b>	<b>3,479.2355</b>	<b>3,479.2355</b>	<b>1.0660</b>		<b>3,501.6221</b>

**3.4 Foundations, finish grading - 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	lb/day										lb/day						
Hauling	0.0303	0.2954	0.4544	8.9000e-004	0.1000	4.2500e-003	0.1043	0.0252	3.9100e-003	0.0291		88.3291	88.3291	6.2000e-004			88.3420
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169			242.2317
<b>Total</b>	<b>0.1642</b>	<b>0.5184</b>	<b>2.3519</b>	<b>3.9000e-003</b>	<b>0.3465</b>	<b>6.6900e-003</b>	<b>0.3532</b>	<b>0.0905</b>	<b>6.1500e-003</b>	<b>0.0967</b>		<b>330.2069</b>	<b>330.2069</b>	<b>0.0175</b>			<b>330.5738</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day						
Off-Road	0.4131	4.3421	4.0325	5.6000e-003		0.2826	0.2826		0.2600	0.2600		572.2414	572.2414	0.1753			575.9234
<b>Total</b>	<b>0.4131</b>	<b>4.3421</b>	<b>4.0325</b>	<b>5.6000e-003</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>		<b>572.2414</b>	<b>572.2414</b>	<b>0.1753</b>			<b>575.9234</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day					
Hauling	0.0300	0.2922	0.4495	8.8000e-004	0.0209	4.2000e-003	0.0251	5.7200e-003	3.8700e-003	9.5900e-003		87.3743	87.3743	6.1000e-004		87.3871
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1639</b>	<b>0.5152</b>	<b>2.3470</b>	<b>3.8900e-003</b>	<b>0.2674</b>	<b>6.6400e-003</b>	<b>0.2740</b>	<b>0.0711</b>	<b>6.1100e-003</b>	<b>0.0772</b>		<b>329.2521</b>	<b>329.2521</b>	<b>0.0175</b>		<b>329.6189</b>

**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	0.4131	4.3421	4.0325	5.6000e-003		0.2826	0.2826		0.2600	0.2600	0.0000	572.2414	572.2414	0.1753		575.9234
<b>Total</b>	<b>0.4131</b>	<b>4.3421</b>	<b>4.0325</b>	<b>5.6000e-003</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>	<b>0.0000</b>	<b>572.2414</b>	<b>572.2414</b>	<b>0.1753</b>		<b>575.9234</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	lb/day										lb/day					
Hauling	0.0300	0.2922	0.4495	8.8000e-004	0.0209	4.2000e-003	0.0251	5.7200e-003	3.8700e-003	9.5900e-003		87.3743	87.3743	6.1000e-004		87.3871
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1639</b>	<b>0.5152</b>	<b>2.3470</b>	<b>3.8900e-003</b>	<b>0.2674</b>	<b>6.6400e-003</b>	<b>0.2740</b>	<b>0.0711</b>	<b>6.1100e-003</b>	<b>0.0772</b>		<b>329.2521</b>	<b>329.2521</b>	<b>0.0175</b>		<b>329.6189</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Archit. Coating	7.7102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4219	3.6528	2.4982	3.0500e-003		0.3014	0.3014		0.2773	0.2773		312.5095	312.5095	0.0958		314.5203
<b>Total</b>	<b>8.1320</b>	<b>3.6528</b>	<b>2.4982</b>	<b>3.0500e-003</b>		<b>0.3014</b>	<b>0.3014</b>		<b>0.2773</b>	<b>0.2773</b>		<b>312.5095</b>	<b>312.5095</b>	<b>0.0958</b>		<b>314.5203</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Hauling	0.0449	0.4380	0.6737	1.3300e-003	0.0313	6.3000e-003	0.0376	8.5800e-003	5.7900e-003	0.0144		130.9604	130.9604	9.2000e-004		130.9796
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	0.2232	0.3716	3.1626	5.0200e-003	0.4107	4.0600e-003	0.4148	0.1090	3.7300e-003	0.1127		403.1297	403.1297	0.0281		403.7196
<b>Total</b>	<b>0.2682</b>	<b>0.8096</b>	<b>3.8363</b>	<b>6.3500e-003</b>	<b>0.4421</b>	<b>0.0104</b>	<b>0.4524</b>	<b>0.1175</b>	<b>9.5200e-003</b>	<b>0.1271</b>		<b>534.0900</b>	<b>534.0900</b>	<b>0.0290</b>		<b>534.6992</b>

**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	7.7102					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4219	3.6528	2.4982	3.0500e-003		0.3014	0.3014		0.2773	0.2773	0.0000	312.5095	312.5095	0.0958		314.5203
<b>Total</b>	<b>8.1320</b>	<b>3.6528</b>	<b>2.4982</b>	<b>3.0500e-003</b>		<b>0.3014</b>	<b>0.3014</b>		<b>0.2773</b>	<b>0.2773</b>	<b>0.0000</b>	<b>312.5095</b>	<b>312.5095</b>	<b>0.0958</b>		<b>314.5203</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	lb/day										lb/day					
Hauling	0.0449	0.4380	0.6737	1.3300e-003	0.0313	6.3000e-003	0.0376	8.5800e-003	5.7900e-003	0.0144		130.9604	130.9604	9.2000e-004		130.9796
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	0.2232	0.3716	3.1626	5.0200e-003	0.4107	4.0600e-003	0.4148	0.1090	3.7300e-003	0.1127		403.1297	403.1297	0.0281		403.7196
<b>Total</b>	<b>0.2682</b>	<b>0.8096</b>	<b>3.8363</b>	<b>6.3500e-003</b>	<b>0.4421</b>	<b>0.0104</b>	<b>0.4524</b>	<b>0.1175</b>	<b>9.5200e-003</b>	<b>0.1271</b>		<b>534.0900</b>	<b>534.0900</b>	<b>0.0290</b>		<b>534.6992</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Off-Road	2.8804	30.0880	16.2494	0.0286		1.5757	1.5757		1.4497	1.4497		2,922.5633	2,922.5633	0.8955		2,941.3681
<b>Total</b>	<b>2.8804</b>	<b>30.0880</b>	<b>16.2494</b>	<b>0.0286</b>		<b>1.5757</b>	<b>1.5757</b>		<b>1.4497</b>	<b>1.4497</b>		<b>2,922.5633</b>	<b>2,922.5633</b>	<b>0.8955</b>		<b>2,941.3681</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Hauling	0.0301	0.2936	0.4515	8.9000e-004	0.0210	4.2200e-003	0.0252	5.7500e-003	3.8800e-003	9.6300e-003		87.7773	87.7773	6.1000e-004		87.7902
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1641</b>	<b>0.5165</b>	<b>2.3491</b>	<b>3.9000e-003</b>	<b>0.2674</b>	<b>6.6600e-003</b>	<b>0.2741</b>	<b>0.0711</b>	<b>6.1200e-003</b>	<b>0.0772</b>		<b>329.6551</b>	<b>329.6551</b>	<b>0.0175</b>		<b>330.0219</b>

**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	2.8804	30.0880	16.2494	0.0286		1.5757	1.5757		1.4497	1.4497	0.0000	2,922.5633	2,922.5633	0.8955		2,941.3681
<b>Total</b>	<b>2.8804</b>	<b>30.0880</b>	<b>16.2494</b>	<b>0.0286</b>		<b>1.5757</b>	<b>1.5757</b>		<b>1.4497</b>	<b>1.4497</b>	<b>0.0000</b>	<b>2,922.5633</b>	<b>2,922.5633</b>	<b>0.8955</b>		<b>2,941.3681</b>



**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	lb/day										lb/day					
Hauling	0.0301	0.2936	0.4515	8.9000e-004	0.0210	4.2200e-003	0.0252	5.7500e-003	3.8800e-003	9.6300e-003		87.7773	87.7773	6.1000e-004		87.7902
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	0.1339	0.2230	1.8976	3.0100e-003	0.2464	2.4400e-003	0.2489	0.0654	2.2400e-003	0.0676		241.8778	241.8778	0.0169		242.2317
<b>Total</b>	<b>0.1641</b>	<b>0.5165</b>	<b>2.3491</b>	<b>3.9000e-003</b>	<b>0.2674</b>	<b>6.6600e-003</b>	<b>0.2741</b>	<b>0.0711</b>	<b>6.1200e-003</b>	<b>0.0772</b>		<b>329.6551</b>	<b>329.6551</b>	<b>0.0175</b>		<b>330.0219</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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					
Mitigated	0.8552	2.2120	10.2604	0.0163	1.0885	0.0252	1.1137	0.2909	0.0232	0.3141		1,383.9024	1,383.9024	0.0735		1,385.4468
Unmitigated	0.8583	2.2300	10.3247	0.0164	1.0991	0.0254	1.1245	0.2937	0.0234	0.3171		1,396.9443	1,396.9443	0.0742		1,398.5021

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	180.00	180.00	180.00	518,560	513,582
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>180.00</b>	<b>180.00</b>	<b>180.00</b>	<b>518,560</b>	<b>513,582</b>

### 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
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
0.466577	0.039911	0.201733	0.176253	0.050904	0.007245	0.019183	0.021019	0.004490	0.001936	0.007540	0.000947	0.002261

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	0.0115	0.0980	0.0417	6.3000e-004		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003		125.0854	125.0854	2.4000e-003	2.2900e-003	125.8466
NaturalGas Unmitigated	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665

### 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					
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
Condo/Townhouse	1280.52	0.0138	0.1180	0.0502	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003		150.6497	150.6497	2.8900e-003	2.7600e-003	151.5665
<b>Total</b>		<b>0.0138</b>	<b>0.1180</b>	<b>0.0502</b>	<b>7.5000e-004</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>9.5400e-003</b>	<b>9.5400e-003</b>		<b>150.6497</b>	<b>150.6497</b>	<b>2.8900e-003</b>	<b>2.7600e-003</b>	<b>151.5665</b>

### 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					
Condo/Townhouse	1.06323	0.0115	0.0980	0.0417	6.3000e-004		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003		125.0854	125.0854	2.4000e-003	2.2900e-003	125.8466
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
<b>Total</b>		<b>0.0115</b>	<b>0.0980</b>	<b>0.0417</b>	<b>6.3000e-004</b>		<b>7.9200e-003</b>	<b>7.9200e-003</b>		<b>7.9200e-003</b>	<b>7.9200e-003</b>		<b>125.0854</b>	<b>125.0854</b>	<b>2.4000e-003</b>	<b>2.2900e-003</b>	<b>125.8466</b>

### 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	lb/day										lb/day					
Mitigated	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608
Unmitigated	38.3763	0.5216	47.2469	0.0178		6.3678	6.3678		6.3676	6.3676	666.5215	283.0949	949.6164	0.6187	0.0524	978.8608

**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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	36.7295	0.4983	45.2468	0.0177		6.3569	6.3569		6.3567	6.3567	666.5215	279.5294	946.0510	0.6151	0.0524	975.2202
Landscaping	0.0623	0.0233	2.0001	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5655	3.5655	3.5800e-003		3.6406
<b>Total</b>	<b>38.3763</b>	<b>0.5216</b>	<b>47.2468</b>	<b>0.0178</b>		<b>6.3678</b>	<b>6.3678</b>		<b>6.3676</b>	<b>6.3676</b>	<b>666.5215</b>	<b>283.0949</b>	<b>949.6164</b>	<b>0.6187</b>	<b>0.0524</b>	<b>978.8608</b>

## 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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3712					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	36.7295	0.4983	45.2468	0.0177		6.3569	6.3569		6.3567	6.3567	666.5215	279.5294	946.0510	0.6151	0.0524	975.2202
Landscaping	0.0623	0.0233	2.0001	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5655	3.5655	3.5800e-003		3.6406
<b>Total</b>	<b>38.3763</b>	<b>0.5216</b>	<b>47.2468</b>	<b>0.0178</b>		<b>6.3678</b>	<b>6.3678</b>		<b>6.3676</b>	<b>6.3676</b>	<b>666.5215</b>	<b>283.0949</b>	<b>949.6164</b>	<b>0.6187</b>	<b>0.0524</b>	<b>978.8608</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

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

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

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**PBC Inclusionary Housing - with Mitigation and State Measures  
Monterey County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.92	Acre	0.92	40,075.20	0
Condo/Townhouse	24.00	Dwelling Unit	1.78	24,000.00	69

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.8	<b>Precipitation Freq (Days)</b>	51
<b>Climate Zone</b>	4			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	290	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - PGE 2020 RPS-adjusted:  
[http://www.pge.com/includes/docs/pdfs/shared/environment/calculator/pge\\_ghg\\_emission\\_factor\\_info\\_sheet.pdf](http://www.pge.com/includes/docs/pdfs/shared/environment/calculator/pge_ghg_emission_factor_info_sheet.pdf)  
 Land Use - 2.7 acre total development. 0.92 acres of parking (35,000 sf of parking, 5,000 sf of walkways), remainder is buildings  
 Construction Phase - schedule from applicant  
 Off-road Equipment - Finish sitework equip from applicant. "other" is the auger.  
 Off-road Equipment - Finishes equip from applicant  
 Off-road Equipment - Foundations equip from applicant  
 Off-road Equipment - Rough framing equip from applicant  
 Off-road Equipment - Equip from applicant. Dozer represents "forestry equipment"  
 Off-road Equipment - additional phase is for Paving VOC only



Trips and VMT - Trips from project applicant. All using "hauling" factors (HHDT, 20 mi r/t). Assumes 2 ADT/worker/day.

Grading - 2.7 acre site per PD, 3,325 cy cut and fill balanced onsite

Vehicle Trips - 6.65 adt/du per tia.

Vehicle Emission Factors - CO2 rates include pav1, pav2, and lcfs reductions shown in analysis

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - default stove and fireplace settings

Consumer Products - default consumer products

Area Coating - default coating settings (250 g/L) and 10% reapplication rate

Energy Use - default energy use

Water And Wastewater - default water use

Solid Waste - default waste

Land Use Change -

Sequestration - -590 oak trees = hardwood. -135 Monterey Pines = Pine. 174 New trees assumed to be "miscellaneous". Plus 348 new "misc" as mitigation.

Construction Off-road Equipment Mitigation - Watering 3x mit

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	220.00	89.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	77.00
tblConstructionPhase	NumDays	3.00	77.00
tblConstructionPhase	NumDaysWeek	5.00	6.00

tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	8/24/2017	7/28/2017
tblConstructionPhase	PhaseEndDate	4/27/2017	4/28/2017
tblConstructionPhase	PhaseEndDate	1/12/2017	1/13/2017
tblConstructionPhase	PhaseEndDate	1/26/2017	10/28/2016
tblConstructionPhase	PhaseEndDate	10/26/2017	10/27/2017
tblConstructionPhase	PhaseStartDate	4/29/2017	4/3/2017
tblConstructionPhase	PhaseStartDate	1/14/2017	1/16/2017
tblConstructionPhase	PhaseStartDate	10/29/2016	10/31/2016
tblConstructionPhase	PhaseStartDate	10/29/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	7/29/2017	7/31/2017
tblGrading	AcresOfGrading	24.38	2.70
tblGrading	AcresOfGrading	38.50	2.70
tblGrading	MaterialExported	0.00	3,325.00
tblGrading	MaterialImported	0.00	3,325.00
tblLandUse	LotAcreage	1.50	1.78
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	PrecipitationFrequency	55	51
tblSequestration	NumberOfNewTrees	0.00	174.00
tblSequestration	NumberOfNewTrees	0.00	348.00
tblSequestration	NumberOfNewTrees	0.00	-590.00

tblSequestration	NumberOfNewTrees	0.00	-135.00
tblTripsAndVMT	HaulingTripNumber	831.00	102.00
tblTripsAndVMT	HaulingTripNumber	0.00	79.00
tblTripsAndVMT	HaulingTripNumber	0.00	107.00
tblTripsAndVMT	HaulingTripNumber	0.00	182.00
tblTripsAndVMT	HaulingTripNumber	0.00	93.00
tblTripsAndVMT	VendorTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	34.00	30.00
tblTripsAndVMT	WorkerTripNumber	7.00	50.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblVehicleEF	LDA	281.47	270.28
tblVehicleEF	LDA	58.96	67.63
tblVehicleEF	LDT1	347.51	313.47
tblVehicleEF	LDT1	71.63	78.38
tblVehicleEF	LDT2	414.17	369.87
tblVehicleEF	LDT2	85.19	92.69
tblVehicleEF	MDV	544.27	468.31
tblVehicleEF	MDV	111.66	116.30
tblVehicleTrips	ST_TR	7.16	7.50
tblVehicleTrips	SU_TR	6.07	7.50
tblVehicleTrips	WD_TR	6.59	7.50

## 2.0 Emissions Summary

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**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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Energy	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	43.1912	43.1912	2.3000e-003	8.3000e-004	43.4984
Mobile	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	216.9701	216.9701	0.0122	0.0000	217.2269
Waste						0.0000	0.0000		0.0000	0.0000	2.2410	0.0000	2.2410	0.1324	0.0000	5.0223
Water						0.0000	0.0000		0.0000	0.0000	0.4961	1.5669	2.0630	0.0511	1.2400e-003	3.5193
<b>Total</b>	<b>1.9510</b>	<b>0.4306</b>	<b>3.8260</b>	<b>3.8800e-003</b>	<b>0.1940</b>	<b>0.2683</b>	<b>0.4624</b>	<b>0.0520</b>	<b>0.2680</b>	<b>0.3199</b>	<b>27.5281</b>	<b>272.5294</b>	<b>300.0575</b>	<b>0.2214</b>	<b>4.0200e-003</b>	<b>305.9525</b>

**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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Energy	2.0900e-003	0.0179	7.6100e-003	1.1000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	36.8229	36.8229	2.0100e-003	7.1000e-004	37.0861
Mobile	0.1450	0.3826	1.7002	2.9700e-003	0.1922	4.5600e-003	0.1967	0.0515	4.2000e-003	0.0557	0.0000	214.9535	214.9535	0.0121	0.0000	215.2081
Waste						0.0000	0.0000		0.0000	0.0000	1.1205	0.0000	1.1205	0.0662	0.0000	2.5111
Water						0.0000	0.0000		0.0000	0.0000	0.3969	1.3166	1.7135	0.0409	9.9000e-004	2.8784
<b>Total</b>	<b>1.9500</b>	<b>0.4239</b>	<b>3.8129</b>	<b>3.8200e-003</b>	<b>0.1922</b>	<b>0.2680</b>	<b>0.4602</b>	<b>0.0515</b>	<b>0.2676</b>	<b>0.3191</b>	<b>26.3084</b>	<b>263.8943</b>	<b>290.2027</b>	<b>0.1445</b>	<b>3.6500e-003</b>	<b>294.3695</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.05</b>	<b>1.57</b>	<b>0.34</b>	<b>1.55</b>	<b>0.96</b>	<b>0.13</b>	<b>0.48</b>	<b>0.96</b>	<b>0.12</b>	<b>0.26</b>	<b>4.43</b>	<b>3.17</b>	<b>3.28</b>	<b>34.71</b>	<b>9.20</b>	<b>3.79</b>

### 2.3 Vegetation

#### Vegetation

	CO2e
Category	MT
New Trees	-149.6140
Vegetation Land Change	-299.7000
<b>Total</b>	<b>-449.3140</b>

### 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 excavation, rough grading, tree removal, site utilities	Site Preparation	8/1/2016	10/28/2016	6	77	
2	Site excavation, rough grading, tree removal, site utilities (PAVING ONLY)	Paving	8/1/2016	10/28/2016	6	77	
3	Foundations, finish grading	Grading	10/31/2016	1/13/2017	6	65	
4	Rough framing electrical, plumbing, sheetmetal, roof trusses	Building Construction	1/16/2017	4/28/2017	6	89	
5	Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Architectural Coating	4/3/2017	7/28/2017	6	101	
6	Finish sitework: driveways, exterior lighting, patios, landscaping	Trenching	7/31/2017	10/27/2017	6	77	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 48,600; Residential Outdoor: 16,200; Non-Residential Indoor: 1,803; Non-Residential Outdoor: 601 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site excavation, rough grading, tree removal, site utilities	Graders	1	8.00	174	0.41
Site excavation, rough grading, tree removal, site utilities	Pavers	2	8.00	125	0.42
Site excavation, rough grading, tree removal, site utilities	Paving Equipment	2	8.00	130	0.36
Site excavation, rough grading, tree removal, site utilities	Rollers	1	6.00	80	0.38
Site excavation, rough grading, tree removal, site utilities	Rubber Tired Dozers	1	7.00	255	0.40
Site excavation, rough grading, tree removal, site utilities	Trenchers	1	8.00	80	0.50
Foundations, finish grading	Forklifts	2	8.00	89	0.20
Foundations, finish grading	Graders	1	6.00	174	0.41
Foundations, finish grading	Off-Highway Trucks	2	8.00	400	0.38
Rough framing electrical, plumbing, sheetmetal, roof trusses	Aerial Lifts	2	8.00	62	0.31
Rough framing electrical, plumbing, sheetmetal, roof trusses	Forklifts	2	6.00	89	0.20
Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Forklifts	2	8.00	89	0.20
Finish sitework: driveways, exterior lighting, patios, landscaping	Graders	1	8.00	174	0.41
Finish sitework: driveways, exterior lighting, patios, landscaping	Off-Highway Trucks	1	8.00	400	0.38
Finish sitework: driveways, exterior lighting, patios, landscaping	Other Construction Equipment	1	8.00	171	0.42

**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 excavation, rough grading, tree removal	8	30.00	0.00	102.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site excavation, rough grading, tree removal				0.00	10.80	7.30				
Foundations, finish grading	5	30.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough framing	4	30.00	0.00	107.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
electrical, plumbing, s										
Finishes: sheetrock, closing walls, painting	2	50.00	0.00	182.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish sitework: driveways, exterior lig	5	30.00	0.00	93.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Water Exposed Area

### 3.2 Site excavation, rough grading, tree removal, site utilities - 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					0.2048	0.0000	0.2048	0.1118	0.0000	0.1118	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1666	1.7664	1.1248	1.4000e-003		0.0964	0.0964		0.0887	0.0887	0.0000	132.4737	132.4737	0.0400	0.0000	133.3128
<b>Total</b>	<b>0.1666</b>	<b>1.7664</b>	<b>1.1248</b>	<b>1.4000e-003</b>	<b>0.2048</b>	<b>0.0964</b>	<b>0.3012</b>	<b>0.1118</b>	<b>0.0887</b>	<b>0.2005</b>	<b>0.0000</b>	<b>132.4737</b>	<b>132.4737</b>	<b>0.0400</b>	<b>0.0000</b>	<b>133.3128</b>

**3.2 Site excavation, rough grading, tree removal, site utilities - 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	1.3200e-003	0.0139	0.0167	4.0000e-005	8.6000e-004	2.1000e-004	1.0700e-003	2.4000e-004	1.9000e-004	4.3000e-004	0.0000	3.4255	3.4255	2.0000e-005	0.0000	3.4260
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	5.5600e-003	8.7500e-003	0.0784	1.2000e-004	9.2000e-003	1.0000e-004	9.3000e-003	2.4500e-003	9.0000e-005	2.5400e-003	0.0000	8.8320	8.8320	6.5000e-004	0.0000	8.8456
<b>Total</b>	<b>6.8800e-003</b>	<b>0.0227</b>	<b>0.0950</b>	<b>1.6000e-004</b>	<b>0.0101</b>	<b>3.1000e-004</b>	<b>0.0104</b>	<b>2.6900e-003</b>	<b>2.8000e-004</b>	<b>2.9700e-003</b>	<b>0.0000</b>	<b>12.2575</b>	<b>12.2575</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>12.2716</b>

**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					0.0799	0.0000	0.0799	0.0436	0.0000	0.0436	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1666	1.7664	1.1248	1.4000e-003		0.0964	0.0964		0.0887	0.0887	0.0000	132.4735	132.4735	0.0400	0.0000	133.3127
<b>Total</b>	<b>0.1666</b>	<b>1.7664</b>	<b>1.1248</b>	<b>1.4000e-003</b>	<b>0.0799</b>	<b>0.0964</b>	<b>0.1763</b>	<b>0.0436</b>	<b>0.0887</b>	<b>0.1323</b>	<b>0.0000</b>	<b>132.4735</b>	<b>132.4735</b>	<b>0.0400</b>	<b>0.0000</b>	<b>133.3127</b>





**3.3 Site excavation, rough grading, tree removal, site utilities (PAVING ONLY) - 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
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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>					<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**3.4 Foundations, finish 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					1.4300e-003	0.0000	1.4300e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9017	0.4409	9.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	86.6643	86.6643	0.0261	0.0000	87.2133
<b>Total</b>	<b>0.0838</b>	<b>0.9017</b>	<b>0.4409</b>	<b>9.2000e-004</b>	<b>1.4300e-003</b>	<b>0.0427</b>	<b>0.0442</b>	<b>1.5000e-004</b>	<b>0.0393</b>	<b>0.0395</b>	<b>0.0000</b>	<b>86.6643</b>	<b>86.6643</b>	<b>0.0261</b>	<b>0.0000</b>	<b>87.2133</b>

### 3.4 Foundations, finish 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	8.5000e-004	8.9600e-003	0.0107	2.0000e-005	6.4000e-004	1.3000e-004	7.7000e-004	1.7000e-004	1.2000e-004	3.0000e-004	0.0000	2.2041	2.2041	2.0000e-005	0.0000	2.2044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	6.1400e-003	0.0550	8.0000e-005	6.4500e-003	7.0000e-005	6.5200e-003	1.7200e-003	6.0000e-005	1.7800e-003	0.0000	6.1939	6.1939	4.5000e-004	0.0000	6.2034
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0151</b>	<b>0.0657</b>	<b>1.0000e-004</b>	<b>7.0900e-003</b>	<b>2.0000e-004</b>	<b>7.2900e-003</b>	<b>1.8900e-003</b>	<b>1.8000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>8.3979</b>	<b>8.3979</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.4078</b>

#### 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					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9017	0.4409	9.2000e-004		0.0427	0.0427		0.0393	0.0393	0.0000	86.6642	86.6642	0.0261	0.0000	87.2132
<b>Total</b>	<b>0.0838</b>	<b>0.9017</b>	<b>0.4409</b>	<b>9.2000e-004</b>	<b>5.6000e-004</b>	<b>0.0427</b>	<b>0.0433</b>	<b>6.0000e-005</b>	<b>0.0393</b>	<b>0.0394</b>	<b>0.0000</b>	<b>86.6642</b>	<b>86.6642</b>	<b>0.0261</b>	<b>0.0000</b>	<b>87.2132</b>

### 3.4 Foundations, finish 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	8.5000e-004	8.9600e-003	0.0107	2.0000e-005	6.4000e-004	1.3000e-004	7.7000e-004	1.7000e-004	1.2000e-004	3.0000e-004	0.0000	2.2041	2.2041	2.0000e-005	0.0000	2.2044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	6.1400e-003	0.0550	8.0000e-005	6.4500e-003	7.0000e-005	6.5200e-003	1.7200e-003	6.0000e-005	1.7800e-003	0.0000	6.1939	6.1939	4.5000e-004	0.0000	6.2034
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0151</b>	<b>0.0657</b>	<b>1.0000e-004</b>	<b>7.0900e-003</b>	<b>2.0000e-004</b>	<b>7.2900e-003</b>	<b>1.8900e-003</b>	<b>1.8000e-004</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>8.3979</b>	<b>8.3979</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>8.4078</b>

### 3.4 Foundations, finish grading - 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					
Fugitive Dust					1.4300e-003	0.0000	1.4300e-003	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1680	0.0852	1.9000e-004		7.9100e-003	7.9100e-003		7.2700e-003	7.2700e-003	0.0000	17.3597	17.3597	5.3200e-003	0.0000	17.4714
<b>Total</b>	<b>0.0158</b>	<b>0.1680</b>	<b>0.0852</b>	<b>1.9000e-004</b>	<b>1.4300e-003</b>	<b>7.9100e-003</b>	<b>9.3400e-003</b>	<b>1.5000e-004</b>	<b>7.2700e-003</b>	<b>7.4200e-003</b>	<b>0.0000</b>	<b>17.3597</b>	<b>17.3597</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>17.4714</b>

### 3.4 Foundations, finish grading - 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	1.5000e-004	1.6000e-003	2.0300e-003	0.0000	5.3000e-004	2.0000e-005	5.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.4413	0.4413	0.0000	0.0000	0.4414
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	6.9000e-004	1.1200e-003	9.9000e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2138	1.2138	8.0000e-005	0.0000	1.2156
<b>Total</b>	<b>8.4000e-004</b>	<b>2.7200e-003</b>	<b>0.0119</b>	<b>2.0000e-005</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8900e-003</b>	<b>4.8000e-004</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6552</b>	<b>1.6552</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.6570</b>

#### 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					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0158	0.1680	0.0852	1.9000e-004		7.9100e-003	7.9100e-003		7.2700e-003	7.2700e-003	0.0000	17.3597	17.3597	5.3200e-003	0.0000	17.4714
<b>Total</b>	<b>0.0158</b>	<b>0.1680</b>	<b>0.0852</b>	<b>1.9000e-004</b>	<b>5.6000e-004</b>	<b>7.9100e-003</b>	<b>8.4700e-003</b>	<b>6.0000e-005</b>	<b>7.2700e-003</b>	<b>7.3300e-003</b>	<b>0.0000</b>	<b>17.3597</b>	<b>17.3597</b>	<b>5.3200e-003</b>	<b>0.0000</b>	<b>17.4714</b>



**3.4 Foundations, finish grading - 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	1.5000e-004	1.6000e-003	2.0300e-003	0.0000	5.3000e-004	2.0000e-005	5.6000e-004	1.3000e-004	2.0000e-005	1.6000e-004	0.0000	0.4413	0.4413	0.0000	0.0000	0.4414
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	6.9000e-004	1.1200e-003	9.9000e-003	2.0000e-005	1.3100e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2138	1.2138	8.0000e-005	0.0000	1.2156
<b>Total</b>	<b>8.4000e-004</b>	<b>2.7200e-003</b>	<b>0.0119</b>	<b>2.0000e-005</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8900e-003</b>	<b>4.8000e-004</b>	<b>3.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6552</b>	<b>1.6552</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.6570</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	0.0184	0.1932	0.1795	2.5000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.1012	23.1012	7.0800e-003	0.0000	23.2499
<b>Total</b>	<b>0.0184</b>	<b>0.1932</b>	<b>0.1795</b>	<b>2.5000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>23.1012</b>	<b>23.1012</b>	<b>7.0800e-003</b>	<b>0.0000</b>	<b>23.2499</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	1.2200e-003	0.0128	0.0163	4.0000e-005	9.1000e-004	1.9000e-004	1.0900e-003	2.5000e-004	1.7000e-004	4.2000e-004	0.0000	3.5322	3.5322	2.0000e-005	0.0000	3.5327
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	5.5700e-003	9.0300e-003	0.0801	1.3000e-004	0.0106	1.1000e-004	0.0107	2.8300e-003	1.0000e-004	2.9300e-003	0.0000	9.8211	9.8211	6.8000e-004	0.0000	9.8354
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0218</b>	<b>0.0964</b>	<b>1.7000e-004</b>	<b>0.0115</b>	<b>3.0000e-004</b>	<b>0.0118</b>	<b>3.0800e-003</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.3533</b>	<b>13.3533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>13.3681</b>

**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	0.0184	0.1932	0.1795	2.5000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.1012	23.1012	7.0800e-003	0.0000	23.2498
<b>Total</b>	<b>0.0184</b>	<b>0.1932</b>	<b>0.1795</b>	<b>2.5000e-004</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0116</b>	<b>0.0116</b>	<b>0.0000</b>	<b>23.1012</b>	<b>23.1012</b>	<b>7.0800e-003</b>	<b>0.0000</b>	<b>23.2498</b>

**3.5 Rough framing electrical, plumbing, sheetmetal, roof trusses - 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	1.2200e-003	0.0128	0.0163	4.0000e-005	9.1000e-004	1.9000e-004	1.0900e-003	2.5000e-004	1.7000e-004	4.2000e-004	0.0000	3.5322	3.5322	2.0000e-005	0.0000	3.5327
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	5.5700e-003	9.0300e-003	0.0801	1.3000e-004	0.0106	1.1000e-004	0.0107	2.8300e-003	1.0000e-004	2.9300e-003	0.0000	9.8211	9.8211	6.8000e-004	0.0000	9.8354
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0218</b>	<b>0.0964</b>	<b>1.7000e-004</b>	<b>0.0115</b>	<b>3.0000e-004</b>	<b>0.0118</b>	<b>3.0800e-003</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>13.3533</b>	<b>13.3533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>13.3681</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	0.3894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.1845	0.1262	1.5000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	14.3170	14.3170	4.3900e-003	0.0000	14.4091
<b>Total</b>	<b>0.4107</b>	<b>0.1845</b>	<b>0.1262</b>	<b>1.5000e-004</b>		<b>0.0152</b>	<b>0.0152</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>14.3170</b>	<b>14.3170</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>14.4091</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	2.0800e-003	0.0218	0.0277	7.0000e-005	1.5400e-003	3.2000e-004	1.8600e-003	4.2000e-004	2.9000e-004	7.1000e-004	0.0000	6.0080	6.0080	4.0000e-005	0.0000	6.0089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	0.0171	0.1515	2.5000e-004	0.0201	2.1000e-004	0.0203	5.3500e-003	1.9000e-004	5.5400e-003	0.0000	18.5755	18.5755	1.2900e-003	0.0000	18.6025
<b>Total</b>	<b>0.0126</b>	<b>0.0388</b>	<b>0.1792</b>	<b>3.2000e-004</b>	<b>0.0217</b>	<b>5.3000e-004</b>	<b>0.0222</b>	<b>5.7700e-003</b>	<b>4.8000e-004</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>24.5835</b>	<b>24.5835</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>24.6113</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.1845	0.1262	1.5000e-004		0.0152	0.0152		0.0140	0.0140	0.0000	14.3169	14.3169	4.3900e-003	0.0000	14.4091
<b>Total</b>	<b>0.4107</b>	<b>0.1845</b>	<b>0.1262</b>	<b>1.5000e-004</b>		<b>0.0152</b>	<b>0.0152</b>		<b>0.0140</b>	<b>0.0140</b>	<b>0.0000</b>	<b>14.3169</b>	<b>14.3169</b>	<b>4.3900e-003</b>	<b>0.0000</b>	<b>14.4091</b>

**3.6 Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing - 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	2.0800e-003	0.0218	0.0277	7.0000e-005	1.5400e-003	3.2000e-004	1.8600e-003	4.2000e-004	2.9000e-004	7.1000e-004	0.0000	6.0080	6.0080	4.0000e-005	0.0000	6.0089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0105	0.0171	0.1515	2.5000e-004	0.0201	2.1000e-004	0.0203	5.3500e-003	1.9000e-004	5.5400e-003	0.0000	18.5755	18.5755	1.2900e-003	0.0000	18.6025
<b>Total</b>	<b>0.0126</b>	<b>0.0388</b>	<b>0.1792</b>	<b>3.2000e-004</b>	<b>0.0217</b>	<b>5.3000e-004</b>	<b>0.0222</b>	<b>5.7700e-003</b>	<b>4.8000e-004</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>24.5835</b>	<b>24.5835</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>24.6113</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	0.1109	1.1584	0.6256	1.1000e-003		0.0607	0.0607		0.0558	0.0558	0.0000	102.0752	102.0752	0.0313	0.0000	102.7320
<b>Total</b>	<b>0.1109</b>	<b>1.1584</b>	<b>0.6256</b>	<b>1.1000e-003</b>		<b>0.0607</b>	<b>0.0607</b>		<b>0.0558</b>	<b>0.0558</b>	<b>0.0000</b>	<b>102.0752</b>	<b>102.0752</b>	<b>0.0313</b>	<b>0.0000</b>	<b>102.7320</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	1.0600e-003	0.0111	0.0142	3.0000e-005	7.9000e-004	1.6000e-004	9.5000e-004	2.2000e-004	1.5000e-004	3.7000e-004	0.0000	3.0700	3.0700	2.0000e-005	0.0000	3.0705
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	4.8200e-003	7.8100e-003	0.0693	1.2000e-004	9.2000e-003	9.0000e-005	9.2900e-003	2.4500e-003	9.0000e-005	2.5300e-003	0.0000	8.4969	8.4969	5.9000e-004	0.0000	8.5093
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0189</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>9.9900e-003</b>	<b>2.5000e-004</b>	<b>0.0102</b>	<b>2.6700e-003</b>	<b>2.4000e-004</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>11.5669</b>	<b>11.5669</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>11.5797</b>

**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	0.1109	1.1584	0.6256	1.1000e-003		0.0607	0.0607		0.0558	0.0558	0.0000	102.0751	102.0751	0.0313	0.0000	102.7319
<b>Total</b>	<b>0.1109</b>	<b>1.1584</b>	<b>0.6256</b>	<b>1.1000e-003</b>		<b>0.0607</b>	<b>0.0607</b>		<b>0.0558</b>	<b>0.0558</b>	<b>0.0000</b>	<b>102.0751</b>	<b>102.0751</b>	<b>0.0313</b>	<b>0.0000</b>	<b>102.7319</b>

**3.7 Finish sitework: driveways, exterior lighting, patios, landscaping - 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	1.0600e-003	0.0111	0.0142	3.0000e-005	7.9000e-004	1.6000e-004	9.5000e-004	2.2000e-004	1.5000e-004	3.7000e-004	0.0000	3.0700	3.0700	2.0000e-005	0.0000	3.0705
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	4.8200e-003	7.8100e-003	0.0693	1.2000e-004	9.2000e-003	9.0000e-005	9.2900e-003	2.4500e-003	9.0000e-005	2.5300e-003	0.0000	8.4969	8.4969	5.9000e-004	0.0000	8.5093
<b>Total</b>	<b>5.8800e-003</b>	<b>0.0189</b>	<b>0.0835</b>	<b>1.5000e-004</b>	<b>9.9900e-003</b>	<b>2.5000e-004</b>	<b>0.0102</b>	<b>2.6700e-003</b>	<b>2.4000e-004</b>	<b>2.9000e-003</b>	<b>0.0000</b>	<b>11.5669</b>	<b>11.5669</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>11.5797</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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	0.1450	0.3826	1.7002	2.9700e-003	0.1922	4.5600e-003	0.1967	0.0515	4.2000e-003	0.0557	0.0000	214.9535	214.9535	0.0121	0.0000	215.2081
Unmitigated	0.1456	0.3857	1.7117	3.0000e-003	0.1940	4.6100e-003	0.1987	0.0520	4.2400e-003	0.0562	0.0000	216.9701	216.9701	0.0122	0.0000	217.2269

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	180.00	180.00	180.00	518,560	513,582
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>180.00</b>	<b>180.00</b>	<b>180.00</b>	<b>518,560</b>	<b>513,582</b>

### 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
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
0.466577	0.039911	0.201733	0.176253	0.050904	0.007245	0.019183	0.021019	0.004490	0.001936	0.007540	0.000947	0.002261

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N



### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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	16.1136	16.1136	1.6100e-003	3.3000e-004	16.2508
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.2495	18.2495	1.8200e-003	3.8000e-004	18.4048
Natural Gas Mitigated	2.0900e-003	0.0179	7.6100e-003	1.1000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	20.7093	20.7093	4.0000e-004	3.8000e-004	20.8353
Natural Gas Unmitigated	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935

### 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					
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	467391	2.5200e-003	0.0215	9.1600e-003	1.4000e-004		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003	0.0000	24.9417	24.9417	4.8000e-004	4.6000e-004	25.0935
<b>Total</b>		<b>2.5200e-003</b>	<b>0.0215</b>	<b>9.1600e-003</b>	<b>1.4000e-004</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>24.9417</b>	<b>24.9417</b>	<b>4.8000e-004</b>	<b>4.6000e-004</b>	<b>25.0935</b>

#### 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					
Condo/Townhouse	388077	2.0900e-003	0.0179	7.6100e-003	1.1000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	20.7093	20.7093	4.0000e-004	3.8000e-004	20.8353
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
<b>Total</b>		<b>2.0900e-003</b>	<b>0.0179</b>	<b>7.6100e-003</b>	<b>1.1000e-004</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>20.7093</b>	<b>20.7093</b>	<b>4.0000e-004</b>	<b>3.8000e-004</b>	<b>20.8353</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	103469	13.6105	1.3600e-003	2.8000e-004	13.7264
Parking Lot	35266.2	4.6390	4.6000e-004	1.0000e-004	4.6785
<b>Total</b>		<b>18.2495</b>	<b>1.8200e-003</b>	<b>3.8000e-004</b>	<b>18.4048</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	94285.2	12.4024	1.2400e-003	2.6000e-004	12.5080
Parking Lot	28212.9	3.7112	3.7000e-004	8.0000e-005	3.7428
<b>Total</b>		<b>16.1136</b>	<b>1.6100e-003</b>	<b>3.4000e-004</b>	<b>16.2508</b>

### 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	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857
Unmitigated	1.8029	0.0234	2.1051	7.4000e-004		0.2620	0.2620		0.2620	0.2620	24.7910	10.8013	35.5923	0.0233	1.9500e-003	36.6857

## 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	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5059	0.0204	1.8551	7.2000e-004		0.2606	0.2606		0.2606	0.2606	24.7910	10.3970	35.1880	0.0229	1.9500e-003	36.2729
Landscaping	7.7900e-003	2.9100e-003	0.2500	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.1000e-004	0.0000	0.4128
<b>Total</b>	<b>1.8029</b>	<b>0.0233</b>	<b>2.1051</b>	<b>7.3000e-004</b>		<b>0.2620</b>	<b>0.2620</b>		<b>0.2620</b>	<b>0.2620</b>	<b>24.7910</b>	<b>10.8013</b>	<b>35.5923</b>	<b>0.0233</b>	<b>1.9500e-003</b>	<b>36.6857</b>

## 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	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5059	0.0204	1.8551	7.2000e-004		0.2606	0.2606		0.2606	0.2606	24.7910	10.3970	35.1880	0.0229	1.9500e-003	36.2729
Landscaping	7.7900e-003	2.9100e-003	0.2500	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.1000e-004	0.0000	0.4128
<b>Total</b>	<b>1.8029</b>	<b>0.0233</b>	<b>2.1051</b>	<b>7.3000e-004</b>		<b>0.2620</b>	<b>0.2620</b>		<b>0.2620</b>	<b>0.2620</b>	<b>24.7910</b>	<b>10.8013</b>	<b>35.5923</b>	<b>0.0233</b>	<b>1.9500e-003</b>	<b>36.6857</b>

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.7135	0.0409	9.9000e-004	2.8784
Unmitigated	2.0630	0.0511	1.2400e-003	3.5193

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.5637 / 0.985809	2.0630	0.0511	1.2400e-003	3.5193
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0630</b>	<b>0.0511</b>	<b>1.2400e-003</b>	<b>3.5193</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.25096 / 0.925674	1.7135	0.0409	9.9000e-004	2.8784
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.7135</b>	<b>0.0409</b>	<b>9.9000e-004</b>	<b>2.8784</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1205	0.0662	0.0000	2.5111
Unmitigated	2.2410	0.1324	0.0000	5.0223

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	11.04	2.2410	0.1324	0.0000	5.0223
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.2410</b>	<b>0.1324</b>	<b>0.0000</b>	<b>5.0223</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	5.52	1.1205	0.0662	0.0000	2.5111
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.1205</b>	<b>0.0662</b>	<b>0.0000</b>	<b>2.5111</b>

## 9.0 Operational Offroad

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

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-449.3140	0.0000	0.0000	-449.3140

## 10.1 Vegetation Land Change

### Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	2.7 / 0	-299.7000	0.0000	0.0000	-299.7000
<b>Total</b>		<b>-299.7000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-299.7000</b>

## 10.2 Net New Trees

### Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	174	123.1920	0.0000	0.0000	123.1920
Miscellaneous	348	246.3840	0.0000	0.0000	246.3840
Mixed Hardwood	-590	-433.0600	0.0000	0.0000	-433.0600
Pine	-135	-86.1300	0.0000	0.0000	-86.1300
<b>Total</b>		<b>-149.6140</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-149.6140</b>

**Calemod efs - adjust for state measures**

	running exhaust				starting exhaust				
non pav/lcfs	361.130	418.830	494.190	625.720	73.190	84.830	100.310	125.870	
<i>Pav/acc</i>	<i>19.0%</i>				-				
<i>LCFS</i>	<i>7.6%</i>				<i>7.6%</i>				
<i>combined</i>	<i>25.2%</i>				<i>7.6%</i>				
pav/lcfs	270.284	313.469	369.872	468.314	67.628	78.383	92.686	116.304	input into caleemod
	<i>(startexonly includes LCFS)</i>								

*Vehicle efficiency measures (Pavley/Advanced Clean Cars) (19.5% reduction in mobile emissions).*

*Low Carbon Fuel Standard (7.6% reduction in mobile emissions).*

**MBUAPCD CONSISTENCY DETERMINATION PROCEDURE Ver. 4.0**

Data entry   Data entered by user.

Consistency Finding NO YES

6	Jurisdiction:	County of Monterey Unincorp				Lead Agency selects from pull down
7	Project Name:	Pebble Beach Inclusionary				Lead Agency enters
8	Base Year for this determination:	2010	Project Buildout/ Occupancy Year	2015	Lead Agency enters	
9			Proposed Project Occupied DU	24	Total buildout of Project. Sum of all years, row 26.	

**JURISDICTION DATA FROM AQMP & DOF (no data entry)**

	Base Year	Period ending January 1st of:					Notes	
		2010	2015	2020	2025	2030		2035
14	DOF Population	109,607	From Calif. Dept of Finance. Est. for Jan 1 -- released in June of each year.					
15	AMBAG DU Forecast for Jurisdiction	42,506	44,442	45,406	46,668	47,139	48,688	DUs from AMBAG Travel Model, current version.
16	AMBAG Pop Forecast for Jurisdiction	109,509	111,105	113,778	114,469	113,628	114,052	Latest AMBAG Pop. & Employment forecasts.
17	AMBAG Forecast Population/ DU	2.58	2.50	2.51	2.45	2.41	2.34	Row 16/ row 15
18	Estimated Built DUs	39,859	Entry for 2010 is the DOF 1/2010 Housing Unit Estimate. Lead agency may overwrite if they have better data.					

**JURISDICTION DUs w/o PROJECT**

	2010	2015	2020	2025	2030	2035	Notes
21	Housing Stock (Built DUs, Total)	38,971		38,971	38,971	38,971	2010 Housing Stock is baseline across the project life
22	Approved but not Built DUs		2,700	2,700	2,700	2,700	Lead Agency estimates value at period end.
23	Total Built & Approved DUs	38,971	2,700	41,671	41,671	41,671	Sum of Row 21 + 22

Table 11 of AMBAG 2014 forecast from June 2014

Table 11: <http://ambag.org/sites/default/files/documents/FINAL%20Adopted%20Forecast%20and%20Documentation.pdf>

Pers Comm with County Staff plus 100 from previous PB EIR

**PROPOSED NEW PROJECT DUs**

	2015	2020	2025	2030	2035	Notes	
26	Proposed New Project DUs	24	24	24	24	24	Data entry by Lead Agency.
27	TOTAL, New Project + Built & Approved DUs	2,724	41,695	41,695	41,695	41,695	Sum of Row 23 + 26

**NEW PROJECT CONSISTENCY DETERMINATION**

29	Over (Under) AQMP DUs	(41,718)	(3,711)	(4,973)	(5,444)	(6,993)	Row 27 - Row 15
30	Is the project consistent in this Period?	YES	YES	YES	YES	YES	If Row 30 is (negative) = YES, if positive = NO.

**OPTIONS IF INCONSISTENT (Choose one):**

Year:	2015	2020	2025	2030	2035
38	<b>A. Consult CEQA Statute and Guidelines for appropriate mitigation options</b>				
	<b>B. Lead Agency preparation of consistency determination via an alternative method</b>				
40	<b>C. Regional offset of significant cumulative air quality impact; For EIRs, declare Statement of Overriding Consideration</b>				

Screen Level Health Risk Assessment - Construction

Construction Emissions and Emission Rates

Construction Phase	DPM* Emissions (tons/year) ONSITE only	Construction hours/day	Construction days/period	DPM Emission Rate (g/s)
Site excavation, rough grading, tree removal, site utilities	0.09614		77	
Foundations, finish grading	0.05061		65	
Rough framing electrical, plumbing, sheetmetal, roof trusses	0.01260		89	
Finishes: sheetrock, closing walls, painting, plumbing, electrical, cabinetry, roofing	0.01520		101	
Finish sitework: driveways, exterior lighting, patios, landscaping	0.06070		77	
<b>Total</b>	<b>0.23525</b>	<b>8</b>	<b>409</b>	<b>0.01812</b>

\*DPM emissions are assumed to be equal to PM10 exhaust emission

Construction Health Risk

Construction Phase	Distance (m)	Hourly DPM Concentration (ug/m3)	Annual Average DPM Concentration (ug/m3) (70yr avg)	70-yr	
				Chronic Non-Cancer Hazard Index (HI)	DPM Cancer Risk (per Million)
Neast Residence	15	27.08	0.02	0.003	0.13
Maximum Concentration	71	38.18	0.02	0.005	0.18
<b>Thresholds</b>				<b>1</b>	<b>10</b>

Health Risk Calculation Factors

Hourly to Annual Concentration scaling factor	0.1	(per BAAQMD 2007 guidance)
Chronic Reference Exposure Level	5	(per OEHHA)
Daily Breath Rate - adult (L/kg-day)	302	
Daily Breath Rate - child (L/kg-day)	581	
Conversion Factor (mg/ug)	0.001	
Conversion Factor (m3/L)	0.001	
DPM Cancer Potency Factor ([mg/kg-day] <sup>-1</sup> )	1.1	
Average Age Sensitivity Factor - residence	1.7	
Average Age Sensitivity Factor - office	1	
Average Age Sensitivity Factor - school	3	
Average Life Time (years)	70	
Average Life Time (days)	25550	
<u>Exposure Frequency</u>	<u>Hours/day</u>	<u>Days/year</u>
Residence	24	350
School	8	200
Office	12	280
Construction duration fraction of 70-years	0.016007828	

AERSCREEN outputs

	m in aerscreen)	1hr
	0	103
103	1	104
	5	108
	10	113
	15	118
	20	123
	22	125

24.14 (const fenceline, 103 ft from center of area source)

## Screen Level Health Risk Assessment - AERScreen Inputs for Construction

<b>AERScreen inputs for Construction</b>	input	unit
Rate	0.018199867	g/s
Source Type		Area
Source release height	5.00	m
larger side length	205	m
smaller side length	51	m
initial vertical dimension	1.50	m
<b>AERScreen general inputs</b>	input	unit
Urban or Rural		U
Urban Area Population	111,105	Unincorporated Monterey County, from ABAG c
min distance to ambient air	51.50	m Default
NO2/NO chemistry	1, No	
max distance to probe	5,000	m Default
discrete receptors	No	
flagpole receptors	Yes	
flagpole height	1.50	m
source elevation	0.00	m Default
min temp (K)	250	k Default
max temp (K)	310	k Default
min wind speed (m/s)	0.5	m/s Default
anemometer height (m)	10	m Default
<u>Surface characteristics</u>		
AERMET Seasonal Tables	2	
Urban	7	
Average Weather Conditions	1	

AERSCREEN 14147 / AERMOD 14134  
10/17/14

17:10:57

TITLE: SCENARIO 1

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-----  
\*\*\*\*\* AREA PARAMETERS  
\*\*\*\*\*  
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SOURCE EMISSION RATE:	0.0181 g/s	0.144 lb/hr
AREA EMISSION RATE:	0.172E-05 g/(s-m2)	0.137E-04 lb/(hr-m2)
AREA HEIGHT:	5.00 meters	16.40 feet
AREA SOURCE LONG SIDE:	102.50 meters	336.29 feet
AREA SOURCE SHORT SIDE:	102.50 meters	336.29 feet
INITIAL VERTICAL DIMENSION:	1.50 meters	4.92 feet
RURAL OR URBAN:	URBAN	
POPULATION:	111105	
INITIAL PROBE DISTANCE =	10000. meters	32808. feet

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\*\*\*\*\* BUILDING DOWNWASH PARAMETERS  
\*\*\*\*\*  
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BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

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-----  
\*\*\*\*\* FLOW SECTOR ANALYSIS  
\*\*\*\*\*

25 meter receptor spacing: 1. meters - 5000. meters  
50 meter receptor spacing: 5050. meters - 10000. meters

-----  
-----  
MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	1.000	36.86	45	75.0	ANN

\* = worst case diagonal

\*\*\*\*\* MAKEMET METEOROLOGY PARAMETERS \*\*\*\*\*

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: USER ENTERED

ALBEDO: 0.21  
 BOWEN RATIO: 1.62  
 ROUGHNESS LENGTH: 1.000 (meters)

-----  
 METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT  
 -----

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO
10	01	10	10	01	-1.30	0.043	-9.000	0.020	-999.	21.	6.0	1.000	1.000	1.62	0.21
REF WS															
-----															
0.50															
-----															
HT	REF	TA	HT												
10.0	310.0	2.0													

-----  
 METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT  
 -----

YR MO DY JDY HR  
 -- -- -- -- --  
 10 01 10 10 01



```

      H0      U*      W*  DT/DZ  ZICNV  ZIMCH  M-O  LEN      Z0  BOWEN  ALBEDO
REF WS
-----
- -
-1.30  0.043 -9.000  0.020 -999.   21.    6.0  1.000   1.62   0.21
0.50

```

```

      HT  REF TA      HT
-----
    10.0   310.0   2.0

```

```

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***** AERSCREEN AUTOMATED DISTANCES
*****

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OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE
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MAXIMUM		MAXIMUM	
DIST	1-HR CONC	DIST	1-HR CONC
(m)	(ug/m3)	(m)	(ug/m3)
1.00	23.60	3750.00	0.3235
15.00	27.08	3775.00	0.3220
25.00	29.33	3800.00	0.3205
50.00	34.41	3825.00	0.3190
75.00	36.86	3849.99	0.3175
100.00	25.17	3875.00	0.3161
125.00	18.20	3900.00	0.3147
150.01	14.26	3924.99	0.3133
174.99	11.66	3950.00	0.3119
200.00	9.816	3975.00	0.3105
225.00	8.432	4000.00	0.3091
250.00	7.362	4025.00	0.3078
274.99	6.504	4050.00	0.3064
300.00	5.808	4074.99	0.3051
325.00	5.231	4100.00	0.3038
350.00	4.746	4125.00	0.3025
375.01	4.336	4150.00	0.3012
400.00	3.983	4175.00	0.3000
425.00	3.675	4200.00	0.2987
450.00	3.408	4225.00	0.2975
475.00	3.173	4250.00	0.2963
500.00	2.963	4275.00	0.2950
525.00	2.776	4300.00	0.2938
549.99	2.609	4325.00	0.2926
575.00	2.459	4350.00	0.2915
600.00	2.324	4375.00	0.2903
625.00	2.200	4400.00	0.2891
650.00	2.088	4425.00	0.2880

675.00	1.984	4450.00	0.2869
700.00	1.890	4475.00	0.2857
725.00	1.803	4500.00	0.2846
750.00	1.723	4525.00	0.2835
775.00	1.648	4550.00	0.2824
800.01	1.580	4575.00	0.2813
825.00	1.516	4600.00	0.2803
850.00	1.457	4625.00	0.2792
875.00	1.401	4650.00	0.2782
900.00	1.349	4674.99	0.2771
925.00	1.300	4700.00	0.2761
950.00	1.254	4725.00	0.2751
975.00	1.212	4750.00	0.2740
1000.00	1.171	4775.00	0.2730
1025.00	1.134	4800.00	0.2720
1050.00	1.098	4825.00	0.2710
1075.00	1.065	4850.00	0.2701
1100.00	1.033	4875.00	0.2691
1125.00	1.003	4900.00	0.2681
1150.00	0.9749	4925.00	0.2672
1175.00	0.9481	4950.00	0.2662
1200.00	0.9229	4975.00	0.2653
1225.00	0.8991	5000.00	0.2644
1250.01	0.8765	5050.00	0.2625
1275.00	0.8550	5100.00	0.2607
1300.00	0.8347	5150.00	0.2590
1325.00	0.8152	5200.00	0.2572
1350.01	0.7967	5250.00	0.2555
1375.00	0.7790	5300.00	0.2538
1400.00	0.7624	5350.00	0.2521
1425.00	0.7464	5400.00	0.2505
1450.00	0.7313	5450.00	0.2489
1475.00	0.7168	5500.00	0.2473
1500.00	0.7030	5550.00	0.2457
1525.00	0.6898	5600.00	0.2442
1550.00	0.6772	5650.00	0.2427
1575.00	0.6652	5700.00	0.2412
1600.00	0.6537	5750.00	0.2397
1625.00	0.6427	5800.00	0.2383
1650.00	0.6322	5850.00	0.2368
1675.00	0.6222	5900.00	0.2354
1700.00	0.6125	5950.00	0.2341
1725.00	0.6033	6000.00	0.2327
1750.00	0.5990	6050.00	0.2313
1775.00	0.5903	6100.00	0.2300
1800.00	0.5820	6150.00	0.2287
1825.00	0.5739	6200.00	0.2274
1850.00	0.5662	6250.00	0.2261
1875.00	0.5588	6300.00	0.2249
1900.00	0.5517	6350.00	0.2236
1924.99	0.5448	6400.00	0.2224
1950.00	0.5382	6450.00	0.2212
1975.00	0.5318	6500.00	0.2200
2000.00	0.5256	6550.00	0.2188

2025.00	0.5196	6599.99	0.2177
2050.00	0.5139	6650.00	0.2165
2075.00	0.5083	6700.00	0.2154
2100.00	0.5029	6750.00	0.2143
2125.00	0.4977	6800.00	0.2132
2150.00	0.4926	6850.00	0.2121
2175.00	0.4877	6900.00	0.2110
2200.00	0.4829	6950.00	0.2099
2225.00	0.4783	7000.00	0.2089
2250.00	0.4738	7050.00	0.2078
2275.00	0.4694	7100.00	0.2068
2300.00	0.4652	7150.00	0.2058
2325.00	0.4610	7200.00	0.2048
2350.00	0.4570	7250.00	0.2038
2375.00	0.4531	7300.00	0.2028
2400.00	0.4493	7350.00	0.2019
2425.00	0.4456	7400.00	0.2009
2449.99	0.4420	7450.00	0.2000
2475.00	0.4384	7500.00	0.1990
2500.00	0.4350	7550.00	0.1981
2524.99	0.4316	7600.00	0.1972
2550.00	0.4283	7650.00	0.1963
2575.00	0.4251	7700.00	0.1954
2600.00	0.4219	7750.00	0.1945
2625.00	0.4188	7800.00	0.1936
2650.00	0.4158	7850.00	0.1928
2675.00	0.4129	7900.00	0.1919
2700.00	0.4100	7950.00	0.1911
2725.00	0.4071	8000.00	0.1902
2750.00	0.4044	8050.00	0.1894
2775.00	0.4016	8100.00	0.1886
2800.00	0.3990	8150.00	0.1878
2825.00	0.3963	8200.00	0.1870
2850.00	0.3938	8250.00	0.1862
2875.00	0.3912	8300.00	0.1854
2900.00	0.3887	8350.00	0.1846
2925.00	0.3863	8400.00	0.1838
2950.00	0.3839	8450.00	0.1831
2975.00	0.3816	8500.00	0.1823
3000.00	0.3792	8550.00	0.1816
3025.00	0.3770	8600.00	0.1808
3050.00	0.3747	8650.00	0.1801
3074.99	0.3725	8700.00	0.1794
3100.00	0.3703	8750.00	0.1787
3125.00	0.3682	8800.00	0.1780
3150.00	0.3661	8850.00	0.1773
3175.00	0.3640	8900.00	0.1766
3200.00	0.3620	8949.99	0.1759
3225.00	0.3600	9000.00	0.1752
3250.00	0.3580	9050.00	0.1745
3275.00	0.3560	9100.00	0.1738
3300.00	0.3541	9150.00	0.1732
3325.00	0.3522	9200.00	0.1725
3350.00	0.3503	9250.00	0.1718

3375.00	0.3485	9300.00	0.1712
3400.00	0.3467	9350.00	0.1706
3425.00	0.3449	9400.00	0.1699
3450.00	0.3431	9450.00	0.1693
3475.00	0.3413	9500.00	0.1687
3500.00	0.3396	9550.00	0.1681
3525.00	0.3379	9600.00	0.1674
3550.00	0.3362	9650.00	0.1668
3575.00	0.3346	9700.00	0.1662
3600.00	0.3329	9750.00	0.1656
3625.00	0.3313	9800.00	0.1650
3650.00	0.3297	9850.00	0.1645
3675.00	0.3281	9900.00	0.1639
3700.00	0.3265	9950.00	0.1633
3725.00	0.3250	10000.00	0.1627

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 \*\*\*\*\* AERSCREEN MAXIMUM IMPACT SUMMARY \*\*\*\*\*  
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3-hour, 8-hour, and 24-hour scaled concentrations are equal to the 1-hour concentration as referenced in SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4) Report number EPA-454/R-92-019 [http://www.epa.gov/scram001/guidance\\_permit.htm](http://www.epa.gov/scram001/guidance_permit.htm) under Screening Guidance

SCALED	MAXIMUM	SCALED	SCALED	SCALED
	1-HOUR	3-HOUR	8-HOUR	24-HOUR
ANNUAL				
CALCULATION	CONC	CONC	CONC	CONC
CONC				
PROCEDURE	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)
(ug/m3)				
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FLAT TERRAIN	38.18	38.18	38.18	38.18
N/A				
DISTANCE FROM SOURCE		70.99 meters		
IMPACT AT THE				
AMBIENT BOUNDARY	23.60	23.60	23.60	23.60
N/A				

DISTANCE FROM SOURCE

1.00 meters