

## **APPENDIX B**

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Air Quality and GHG Emissions

## Kammerer Road/Highway 99 SOI EIR - Construction Emissions Sacramento County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,522.75	1000sqft	81.25	1,522,750.00	3696
Elementary School	674.00	Student	8.25	56,348.67	721
General Light Industry	584.50	1000sqft	31.25	584,500.00	863
City Park	27.00	Acre	27.00	1,176,120.00	0
Apartments Low Rise	446.50	Dwelling Unit	21.75	446,500.00	1192
Single Family Housing	803.50	Dwelling Unit	107.50	1,446,300.00	2145
Regional Shopping Center	340.50	1000sqft	12.00	340,500.00	403

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<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 -

Land Use - Construction emissions modeled for 25% of assumed land use scenario for 1 year based on SMAQMD guidance.

Construction Phase - Each construction phase modeled for 1 year.

Grading - Total Acres Disturbed = 289 acres.

Vehicle Trips - Operational emissions calculated separately.

Woodstoves - Operational emissions calculated separately.

Consumer Products - Operational emissions calculated separately.

Area Coating - Operational emissions calculated separately.

Landscape Equipment - Operational emissions calculated separately.

Energy Use - Operational emissions calculated separately.

Water And Wastewater - Operational emissions calculated separately.

Solid Waste - Operational emissions calculated separately.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	5520328	0
tblAreaCoating	Area_Residential_Exterior	1277640	0
tblAreaCoating	Area_Residential_Interior	3832920	0
tblConstructionPhase	NumDays	330.00	260.00
tblConstructionPhase	NumDays	4,650.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	465.00	260.00
tblConstructionPhase	NumDays	330.00	260.00
tblConstructionPhase	NumDays	180.00	260.00
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/29/2017	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017

tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConsumerProducts	ROG_EF	2.14E-05	1E-30
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.55	0.00
tblEnergyUse	LightingElect	5.19	0.00
tblEnergyUse	LightingElect	4.21	0.00
tblEnergyUse	LightingElect	6.01	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2,631.74	0.00
tblEnergyUse	NT24E	2.17	0.00
tblEnergyUse	NT24E	7.20	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24E	2.98	0.00
tblEnergyUse	NT24E	5,098.84	0.00
tblEnergyUse	NT24NG	2,498.00	0.00
tblEnergyUse	NT24NG	0.66	0.00
tblEnergyUse	NT24NG	12.42	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	NT24NG	0.93	0.00
tblEnergyUse	NT24NG	5,933.76	0.00
tblEnergyUse	T24E	348.18	0.00
tblEnergyUse	T24E	2.51	0.00

tblEnergyUse	T24E	4.17	0.00
tblEnergyUse	T24E	6.08	0.00
tblEnergyUse	T24E	3.98	0.00
tblEnergyUse	T24E	729.62	0.00
tblEnergyUse	T24NG	11,068.06	0.00
tblEnergyUse	T24NG	15.37	0.00
tblEnergyUse	T24NG	24.61	0.00
tblEnergyUse	T24NG	13.07	0.00
tblEnergyUse	T24NG	4.72	0.00
tblEnergyUse	T24NG	26,218.01	0.00
tblFireplaces	NumberNoFireplace	446.50	0.00
tblFireplaces	NumberNoFireplace	803.50	0.00
tblGrading	AcresOfGrading	650.00	289.00
tblLandUse	LotAcreage	34.96	81.25
tblLandUse	LotAcreage	1.29	8.25
tblLandUse	LotAcreage	13.42	31.25
tblLandUse	LotAcreage	27.91	21.75
tblLandUse	LotAcreage	260.88	107.50
tblLandUse	LotAcreage	7.82	12.00
tblLandUse	Population	0.00	3,696.00
tblLandUse	Population	0.00	721.00
tblLandUse	Population	0.00	863.00
tblLandUse	Population	0.00	403.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblSolidWaste	SolidWasteGenerationRate	205.39	0.00
tblSolidWaste	SolidWasteGenerationRate	2.32	0.00
tblSolidWaste	SolidWasteGenerationRate	123.00	0.00
tblSolidWaste	SolidWasteGenerationRate	724.78	0.00

tblSolidWaste	SolidWasteGenerationRate	1,416.16	0.00
tblSolidWaste	SolidWasteGenerationRate	357.53	0.00
tblSolidWaste	SolidWasteGenerationRate	772.20	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblWater	IndoorWaterUseRate	29,091,272.44	0.00
tblWater	IndoorWaterUseRate	1,633,937.76	0.00
tblWater	IndoorWaterUseRate	135,165,625.00	0.00
tblWater	IndoorWaterUseRate	270,644,064.76	0.00
tblWater	IndoorWaterUseRate	25,221,693.57	0.00
tblWater	IndoorWaterUseRate	52,351,259.59	0.00

tblWater	OutdoorWaterUseRate	18,340,150.02	0.00
tblWater	OutdoorWaterUseRate	32,169,996.44	0.00
tblWater	OutdoorWaterUseRate	4,201,554.24	0.00
tblWater	OutdoorWaterUseRate	165,878,620.34	0.00
tblWater	OutdoorWaterUseRate	15,458,457.35	0.00
tblWater	OutdoorWaterUseRate	33,004,054.96	0.00

## 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	1.0274	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.0274</b>	<b>0.1486</b>	<b>12.8855</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>21.1351</b>	<b>21.1351</b>	<b>0.0203</b>	<b>0.0000</b>	<b>21.5603</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	1.0274	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.0274</b>	<b>0.1486</b>	<b>12.8855</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>21.1351</b>	<b>21.1351</b>	<b>0.0203</b>	<b>0.0000</b>	<b>21.5603</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	Demolition	Demolition	1/1/2017	12/31/2017	5	260	
2	Site Preparation	Site Preparation	1/1/2017	12/31/2017	5	260	
3	Grading	Grading	1/1/2017	12/31/2017	5	260	
4	Building Construction	Building Construction	1/1/2017	12/31/2017	5	260	
5	Paving	Paving	1/1/2017	12/31/2017	5	260	
6	Architectural Coating	Architectural Coating	1/1/2017	12/31/2017	5	260	

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

**Acres of Grading (Grading Phase): 289**

**Acres of Paving: 0**

**Residential Indoor: 3,832,920; Residential Outdoor: 1,277,640; Non-Residential Indoor: 5,520,328; Non-Residential Outdoor: 1,840,109 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,970.00	737.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	394.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 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	0.5263	5.5506	4.4061	5.1900e-003		0.2763	0.2763		0.2574	0.2574	0.0000	476.0368	476.0368	0.1306	0.0000	478.7792
<b>Total</b>	<b>0.5263</b>	<b>5.5506</b>	<b>4.4061</b>	<b>5.1900e-003</b>		<b>0.2763</b>	<b>0.2763</b>		<b>0.2574</b>	<b>0.2574</b>	<b>0.0000</b>	<b>476.0368</b>	<b>476.0368</b>	<b>0.1306</b>	<b>0.0000</b>	<b>478.7792</b>

### 3.2 Demolition - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	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	5.8000e-003	6.9700e-003	0.0729	1.7000e-004	0.0143	1.1000e-004	0.0144	3.8100e-003	1.0000e-004	3.9100e-003	0.0000	12.2758	12.2758	6.2000e-004	0.0000	12.2888	12.2888
<b>Total</b>	<b>5.8000e-003</b>	<b>6.9700e-003</b>	<b>0.0729</b>	<b>1.7000e-004</b>	<b>0.0143</b>	<b>1.1000e-004</b>	<b>0.0144</b>	<b>3.8100e-003</b>	<b>1.0000e-004</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>12.2758</b>	<b>12.2758</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>12.2888</b>	<b>12.2888</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	0.5263	5.5506	4.4061	5.1900e-003		0.2763	0.2763		0.2574	0.2574	0.0000	476.0362	476.0362	0.1306	0.0000	478.7786
<b>Total</b>	<b>0.5263</b>	<b>5.5506</b>	<b>4.4061</b>	<b>5.1900e-003</b>		<b>0.2763</b>	<b>0.2763</b>		<b>0.2574</b>	<b>0.2574</b>	<b>0.0000</b>	<b>476.0362</b>	<b>476.0362</b>	<b>0.1306</b>	<b>0.0000</b>	<b>478.7786</b>

### 3.2 Demolition - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-003	6.9700e-003	0.0729	1.7000e-004	0.0143	1.1000e-004	0.0144	3.8100e-003	1.0000e-004	3.9100e-003	0.0000	12.2758	12.2758	6.2000e-004	0.0000	12.2888
<b>Total</b>	<b>5.8000e-003</b>	<b>6.9700e-003</b>	<b>0.0729</b>	<b>1.7000e-004</b>	<b>0.0143</b>	<b>1.1000e-004</b>	<b>0.0144</b>	<b>3.8100e-003</b>	<b>1.0000e-004</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>12.2758</b>	<b>12.2758</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>12.2888</b>

### 3.3 Site Preparation - 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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6290	6.7280	5.1216	5.0800e-003		0.3581	0.3581		0.3294	0.3294	0.0000	472.1000	472.1000	0.1447	0.0000	475.1377
<b>Total</b>	<b>0.6290</b>	<b>6.7280</b>	<b>5.1216</b>	<b>5.0800e-003</b>	<b>2.3486</b>	<b>0.3581</b>	<b>2.7067</b>	<b>1.2910</b>	<b>0.3294</b>	<b>1.6204</b>	<b>0.0000</b>	<b>472.1000</b>	<b>472.1000</b>	<b>0.1447</b>	<b>0.0000</b>	<b>475.1377</b>

### 3.3 Site Preparation - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9600e-003	8.3600e-003	0.0875	2.1000e-004	0.0172	1.3000e-004	0.0173	4.5700e-003	1.2000e-004	4.6900e-003	0.0000	14.7309	14.7309	7.5000e-004	0.0000	14.7466
<b>Total</b>	<b>6.9600e-003</b>	<b>8.3600e-003</b>	<b>0.0875</b>	<b>2.1000e-004</b>	<b>0.0172</b>	<b>1.3000e-004</b>	<b>0.0173</b>	<b>4.5700e-003</b>	<b>1.2000e-004</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>14.7309</b>	<b>14.7309</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>14.7466</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					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6290	6.7279	5.1216	5.0800e-003		0.3581	0.3581		0.3294	0.3294	0.0000	472.0994	472.0994	0.1447	0.0000	475.1371
<b>Total</b>	<b>0.6290</b>	<b>6.7279</b>	<b>5.1216</b>	<b>5.0800e-003</b>	<b>2.3486</b>	<b>0.3581</b>	<b>2.7067</b>	<b>1.2910</b>	<b>0.3294</b>	<b>1.6204</b>	<b>0.0000</b>	<b>472.0994</b>	<b>472.0994</b>	<b>0.1447</b>	<b>0.0000</b>	<b>475.1371</b>

### 3.3 Site Preparation - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9600e-003	8.3600e-003	0.0875	2.1000e-004	0.0172	1.3000e-004	0.0173	4.5700e-003	1.2000e-004	4.6900e-003	0.0000	14.7309	14.7309	7.5000e-004	0.0000	14.7466
<b>Total</b>	<b>6.9600e-003</b>	<b>8.3600e-003</b>	<b>0.0875</b>	<b>2.1000e-004</b>	<b>0.0172</b>	<b>1.3000e-004</b>	<b>0.0173</b>	<b>4.5700e-003</b>	<b>1.2000e-004</b>	<b>4.6900e-003</b>	<b>0.0000</b>	<b>14.7309</b>	<b>14.7309</b>	<b>7.5000e-004</b>	<b>0.0000</b>	<b>14.7466</b>

### 3.4 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					0.9361	0.0000	0.9361	0.4469	0.0000	0.4469	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7929	9.0470	6.0847	8.0200e-003		0.4312	0.4312		0.3967	0.3967	0.0000	744.5610	744.5610	0.2281	0.0000	749.3517
<b>Total</b>	<b>0.7929</b>	<b>9.0470</b>	<b>6.0847</b>	<b>8.0200e-003</b>	<b>0.9361</b>	<b>0.4312</b>	<b>1.3673</b>	<b>0.4469</b>	<b>0.3967</b>	<b>0.8436</b>	<b>0.0000</b>	<b>744.5610</b>	<b>744.5610</b>	<b>0.2281</b>	<b>0.0000</b>	<b>749.3517</b>

**3.4 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	0.0000	0.0000	0.0000	0.0000	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	7.7300e-003	9.2900e-003	0.0973	2.3000e-004	0.0191	1.4000e-004	0.0192	5.0800e-003	1.3000e-004	5.2100e-003	0.0000	16.3677	16.3677	8.3000e-004	0.0000	16.3851
<b>Total</b>	<b>7.7300e-003</b>	<b>9.2900e-003</b>	<b>0.0973</b>	<b>2.3000e-004</b>	<b>0.0191</b>	<b>1.4000e-004</b>	<b>0.0192</b>	<b>5.0800e-003</b>	<b>1.3000e-004</b>	<b>5.2100e-003</b>	<b>0.0000</b>	<b>16.3677</b>	<b>16.3677</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>16.3851</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					0.9361	0.0000	0.9361	0.4469	0.0000	0.4469	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7929	9.0470	6.0847	8.0200e-003		0.4312	0.4312		0.3967	0.3967	0.0000	744.5601	744.5601	0.2281	0.0000	749.3509
<b>Total</b>	<b>0.7929</b>	<b>9.0470</b>	<b>6.0847</b>	<b>8.0200e-003</b>	<b>0.9361</b>	<b>0.4312</b>	<b>1.3673</b>	<b>0.4469</b>	<b>0.3967</b>	<b>0.8436</b>	<b>0.0000</b>	<b>744.5601</b>	<b>744.5601</b>	<b>0.2281</b>	<b>0.0000</b>	<b>749.3509</b>

### 3.4 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	0.0000	0.0000	0.0000	0.0000	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	7.7300e-003	9.2900e-003	0.0973	2.3000e-004	0.0191	1.4000e-004	0.0192	5.0800e-003	1.3000e-004	5.2100e-003	0.0000	16.3677	16.3677	8.3000e-004	0.0000	16.3851
<b>Total</b>	<b>7.7300e-003</b>	<b>9.2900e-003</b>	<b>0.0973</b>	<b>2.3000e-004</b>	<b>0.0191</b>	<b>1.4000e-004</b>	<b>0.0192</b>	<b>5.0800e-003</b>	<b>1.3000e-004</b>	<b>5.2100e-003</b>	<b>0.0000</b>	<b>16.3677</b>	<b>16.3677</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>16.3851</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3228	311.3228	0.0766	0.0000	312.9319
<b>Total</b>	<b>0.4033</b>	<b>3.4327</b>	<b>2.3568</b>	<b>3.4900e-003</b>		<b>0.2316</b>	<b>0.2316</b>		<b>0.2175</b>	<b>0.2175</b>	<b>0.0000</b>	<b>311.3228</b>	<b>311.3228</b>	<b>0.0766</b>	<b>0.0000</b>	<b>312.9319</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1006	7.1794	14.4355	0.0200	0.5466	0.1070	0.6535	0.1563	0.0982	0.2545	0.0000	1,777.5970	1,777.5970	0.0135	0.0000	1,777.8802	
Worker	0.7617	0.9148	9.5789	0.0225	1.8809	0.0138	1.8947	0.5003	0.0128	0.5130	0.0000	1,612.2152	1,612.2152	0.0819	0.0000	1,613.9341	
<b>Total</b>	<b>1.8623</b>	<b>8.0943</b>	<b>24.0144</b>	<b>0.0425</b>	<b>2.4275</b>	<b>0.1208</b>	<b>2.5483</b>	<b>0.6565</b>	<b>0.1110</b>	<b>0.7675</b>	<b>0.0000</b>	<b>3,389.8122</b>	<b>3,389.8122</b>	<b>0.0953</b>	<b>0.0000</b>	<b>3,391.8143</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	0.4033	3.4327	2.3568	3.4900e-003		0.2316	0.2316		0.2175	0.2175	0.0000	311.3225	311.3225	0.0766	0.0000	312.9315
<b>Total</b>	<b>0.4033</b>	<b>3.4327</b>	<b>2.3568</b>	<b>3.4900e-003</b>		<b>0.2316</b>	<b>0.2316</b>		<b>0.2175</b>	<b>0.2175</b>	<b>0.0000</b>	<b>311.3225</b>	<b>311.3225</b>	<b>0.0766</b>	<b>0.0000</b>	<b>312.9315</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1006	7.1794	14.4355	0.0200	0.5466	0.1070	0.6535	0.1563	0.0982	0.2545	0.0000	1,777.5970	1,777.5970	0.0135	0.0000	1,777.8802	
Worker	0.7617	0.9148	9.5789	0.0225	1.8809	0.0138	1.8947	0.5003	0.0128	0.5130	0.0000	1,612.2152	1,612.2152	0.0819	0.0000	1,613.9341	
<b>Total</b>	<b>1.8623</b>	<b>8.0943</b>	<b>24.0144</b>	<b>0.0425</b>	<b>2.4275</b>	<b>0.1208</b>	<b>2.5483</b>	<b>0.6565</b>	<b>0.1110</b>	<b>0.7675</b>	<b>0.0000</b>	<b>3,389.8122</b>	<b>3,389.8122</b>	<b>0.0953</b>	<b>0.0000</b>	<b>3,391.8143</b>	

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2480	2.6385	1.9145	2.9000e-003		0.1480	0.1480		0.1362	0.1362	0.0000	269.0144	269.0144	0.0824	0.0000	270.7454
Paving	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>0.2480</b>	<b>2.6385</b>	<b>1.9145</b>	<b>2.9000e-003</b>		<b>0.1480</b>	<b>0.1480</b>		<b>0.1362</b>	<b>0.1362</b>	<b>0.0000</b>	<b>269.0144</b>	<b>269.0144</b>	<b>0.0824</b>	<b>0.0000</b>	<b>270.7454</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-003	6.9700e-003	0.0729	1.7000e-004	0.0143	1.1000e-004	0.0144	3.8100e-003	1.0000e-004	3.9100e-003	0.0000	12.2758	12.2758	6.2000e-004	0.0000	12.2888
<b>Total</b>	<b>5.8000e-003</b>	<b>6.9700e-003</b>	<b>0.0729</b>	<b>1.7000e-004</b>	<b>0.0143</b>	<b>1.1000e-004</b>	<b>0.0144</b>	<b>3.8100e-003</b>	<b>1.0000e-004</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>12.2758</b>	<b>12.2758</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>12.2888</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	0.2480	2.6385	1.9145	2.9000e-003		0.1480	0.1480		0.1362	0.1362	0.0000	269.0141	269.0141	0.0824	0.0000	270.7450
Paving	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>0.2480</b>	<b>2.6385</b>	<b>1.9145</b>	<b>2.9000e-003</b>		<b>0.1480</b>	<b>0.1480</b>		<b>0.1362</b>	<b>0.1362</b>	<b>0.0000</b>	<b>269.0141</b>	<b>269.0141</b>	<b>0.0824</b>	<b>0.0000</b>	<b>270.7450</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-003	6.9700e-003	0.0729	1.7000e-004	0.0143	1.1000e-004	0.0144	3.8100e-003	1.0000e-004	3.9100e-003	0.0000	12.2758	12.2758	6.2000e-004	0.0000	12.2888
<b>Total</b>	<b>5.8000e-003</b>	<b>6.9700e-003</b>	<b>0.0729</b>	<b>1.7000e-004</b>	<b>0.0143</b>	<b>1.1000e-004</b>	<b>0.0144</b>	<b>3.8100e-003</b>	<b>1.0000e-004</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>12.2758</b>	<b>12.2758</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>12.2888</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	37.4304					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.2841	0.2429	3.9000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	33.2659
<b>Total</b>	<b>37.4736</b>	<b>0.2841</b>	<b>0.2429</b>	<b>3.9000e-004</b>		<b>0.0225</b>	<b>0.0225</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>33.2659</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1523	0.1830	1.9158	4.5000e-003	0.3762	2.7700e-003	0.3790	0.1001	2.5500e-003	0.1026	0.0000	322.4430	322.4430	0.0164	0.0000	322.7868	
<b>Total</b>	<b>0.1523</b>	<b>0.1830</b>	<b>1.9158</b>	<b>4.5000e-003</b>	<b>0.3762</b>	<b>2.7700e-003</b>	<b>0.3790</b>	<b>0.1001</b>	<b>2.5500e-003</b>	<b>0.1026</b>	<b>0.0000</b>	<b>322.4430</b>	<b>322.4430</b>	<b>0.0164</b>	<b>0.0000</b>	<b>322.7868</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	37.4304					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.2841	0.2429	3.9000e-004		0.0225	0.0225		0.0225	0.0225	0.0000	33.1923	33.1923	3.5000e-003	0.0000	33.2659
<b>Total</b>	<b>37.4736</b>	<b>0.2841</b>	<b>0.2429</b>	<b>3.9000e-004</b>		<b>0.0225</b>	<b>0.0225</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>33.2659</b>



### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.507436	0.069689	0.176394	0.141978	0.043819	0.006429	0.022470	0.018349	0.002445	0.002160	0.006237	0.000474	0.002120

### 5.0 Energy Detail

#### 5.1 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy







### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	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>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	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>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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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	tons/yr										MT/yr					
Mitigated	1.0274	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603
Unmitigated	1.0274	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603

## 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	0.6397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3877	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603
<b>Total</b>	<b>1.0274</b>	<b>0.1486</b>	<b>12.8855</b>	<b>6.8000e-004</b>		<b>0.0716</b>	<b>0.0716</b>		<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>21.1351</b>	<b>21.1351</b>	<b>0.0203</b>	<b>0.0000</b>	<b>21.5603</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	0.6397					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3877	0.1486	12.8855	6.8000e-004		0.0716	0.0716		0.0716	0.0716	0.0000	21.1351	21.1351	0.0203	0.0000	21.5603
<b>Total</b>	<b>1.0274</b>	<b>0.1486</b>	<b>12.8855</b>	<b>6.8000e-004</b>		<b>0.0716</b>	<b>0.0716</b>		<b>0.0716</b>	<b>0.0716</b>	<b>0.0000</b>	<b>21.1351</b>	<b>21.1351</b>	<b>0.0203</b>	<b>0.0000</b>	<b>21.5603</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Elementary School	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	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>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Elementary School	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	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>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	0.0000	0.0000	0.0000	0.0000
Mitigated	0.0000	0.0000	0.0000	0.0000

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	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>

### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	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>

### 9.0 Operational Offroad

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

## Kammerer Road/Highway 99 SOI EIR - Construction Emissions

### Sacramento County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,522.75	1000sqft	81.25	1,522,750.00	3696
Elementary School	674.00	Student	8.25	56,348.67	721
General Light Industry	584.50	1000sqft	31.25	584,500.00	863
City Park	27.00	Acre	27.00	1,176,120.00	0
Apartments Low Rise	446.50	Dwelling Unit	21.75	446,500.00	1192
Single Family Housing	803.50	Dwelling Unit	107.50	1,446,300.00	2145
Regional Shopping Center	340.50	1000sqft	12.00	340,500.00	403

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	590.31	<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 -

Land Use - Construction emissions modeled for 25% of assumed land use scenario for 1 year based on SMAQMD guidance.

Construction Phase - Each construction phase modeled for 1 year.

Grading - Total Acres Disturbed = 289 acres.

Vehicle Trips - Operational emissions calculated separately.

Woodstoves - Operational emissions calculated separately.

Consumer Products - Operational emissions calculated separately.

Area Coating - Operational emissions calculated separately.

Landscape Equipment - Operational emissions calculated separately.

Energy Use - Operational emissions calculated separately.

Water And Wastewater - Operational emissions calculated separately.

Solid Waste - Operational emissions calculated separately.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	5520328	0
tblAreaCoating	Area_Residential_Exterior	1277640	0
tblAreaCoating	Area_Residential_Interior	3832920	0
tblConstructionPhase	NumDays	330.00	260.00
tblConstructionPhase	NumDays	4,650.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	465.00	260.00
tblConstructionPhase	NumDays	330.00	260.00
tblConstructionPhase	NumDays	180.00	260.00
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/29/2017	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017

tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	12/28/2018	12/31/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	1/1/2017
tblConsumerProducts	ROG_EF	2.14E-05	1E-30
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	3.55	0.00
tblEnergyUse	LightingElect	5.19	0.00
tblEnergyUse	LightingElect	4.21	0.00
tblEnergyUse	LightingElect	6.01	0.00
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	NT24E	2,631.74	0.00
tblEnergyUse	NT24E	2.17	0.00
tblEnergyUse	NT24E	7.20	0.00
tblEnergyUse	NT24E	5.75	0.00
tblEnergyUse	NT24E	2.98	0.00
tblEnergyUse	NT24E	5,098.84	0.00
tblEnergyUse	NT24NG	2,498.00	0.00
tblEnergyUse	NT24NG	0.66	0.00
tblEnergyUse	NT24NG	12.42	0.00
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	NT24NG	0.93	0.00
tblEnergyUse	NT24NG	5,933.76	0.00
tblEnergyUse	T24E	348.18	0.00
tblEnergyUse	T24E	2.51	0.00

tblEnergyUse	T24E	4.17	0.00
tblEnergyUse	T24E	6.08	0.00
tblEnergyUse	T24E	3.98	0.00
tblEnergyUse	T24E	729.62	0.00
tblEnergyUse	T24NG	11,068.06	0.00
tblEnergyUse	T24NG	15.37	0.00
tblEnergyUse	T24NG	24.61	0.00
tblEnergyUse	T24NG	13.07	0.00
tblEnergyUse	T24NG	4.72	0.00
tblEnergyUse	T24NG	26,218.01	0.00
tblFireplaces	NumberNoFireplace	446.50	0.00
tblFireplaces	NumberNoFireplace	803.50	0.00
tblGrading	AcresOfGrading	650.00	289.00
tblLandUse	LotAcreage	34.96	81.25
tblLandUse	LotAcreage	1.29	8.25
tblLandUse	LotAcreage	13.42	31.25
tblLandUse	LotAcreage	27.91	21.75
tblLandUse	LotAcreage	260.88	107.50
tblLandUse	LotAcreage	7.82	12.00
tblLandUse	Population	0.00	3,696.00
tblLandUse	Population	0.00	721.00
tblLandUse	Population	0.00	863.00
tblLandUse	Population	0.00	403.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblSolidWaste	SolidWasteGenerationRate	205.39	0.00
tblSolidWaste	SolidWasteGenerationRate	2.32	0.00
tblSolidWaste	SolidWasteGenerationRate	123.00	0.00
tblSolidWaste	SolidWasteGenerationRate	724.78	0.00

tblSolidWaste	SolidWasteGenerationRate	1,416.16	0.00
tblSolidWaste	SolidWasteGenerationRate	357.53	0.00
tblSolidWaste	SolidWasteGenerationRate	772.20	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	10.08	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.98	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.77	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	1.29	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblVehicleTrips	WD_TR	11.01	0.00
tblVehicleTrips	WD_TR	42.94	0.00
tblVehicleTrips	WD_TR	9.57	0.00
tblWater	IndoorWaterUseRate	29,091,272.44	0.00
tblWater	IndoorWaterUseRate	1,633,937.76	0.00
tblWater	IndoorWaterUseRate	135,165,625.00	0.00
tblWater	IndoorWaterUseRate	270,644,064.76	0.00
tblWater	IndoorWaterUseRate	25,221,693.57	0.00
tblWater	IndoorWaterUseRate	52,351,259.59	0.00

tblWater	OutdoorWaterUseRate	18,340,150.02	0.00
tblWater	OutdoorWaterUseRate	32,169,996.44	0.00
tblWater	OutdoorWaterUseRate	4,201,554.24	0.00
tblWater	OutdoorWaterUseRate	165,878,620.34	0.00
tblWater	OutdoorWaterUseRate	15,458,457.35	0.00
tblWater	OutdoorWaterUseRate	33,004,054.96	0.00

## 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	6.6069	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730	0.0000	186.3795	186.3795	0.1785	0.0000	190.1289
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>6.6069</b>	<b>1.1885</b>	<b>103.0838</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>186.3795</b>	<b>186.3795</b>	<b>0.1785</b>	<b>0.0000</b>	<b>190.1289</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	6.6069	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730	0.0000	186.3795	186.3795	0.1785	0.0000	190.1289
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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>6.6069</b>	<b>1.1885</b>	<b>103.0838</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>186.3795</b>	<b>186.3795</b>	<b>0.1785</b>	<b>0.0000</b>	<b>190.1289</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	Demolition	Demolition	1/1/2017	12/31/2017	5	260	
2	Site Preparation	Site Preparation	1/1/2017	12/31/2017	5	260	
3	Grading	Grading	1/1/2017	12/31/2017	5	260	
4	Building Construction	Building Construction	1/1/2017	12/31/2017	5	260	
5	Paving	Paving	1/1/2017	12/31/2017	5	260	
6	Architectural Coating	Architectural Coating	1/1/2017	12/31/2017	5	260	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 289

Acres of Paving: 0

Residential Indoor: 3,832,920; Residential Outdoor: 1,277,640; Non-Residential Indoor: 5,520,328; Non-Residential Outdoor: 1,840,109  
(Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,970.00	737.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	394.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 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	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797		4,036.4674	4,036.4674	1.1073		4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>		<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>		<b>4,059.7211</b>

### 3.2 Demolition - 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	0.0000	0.0000	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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003			101.2257
<b>Total</b>	<b>0.0463</b>	<b>0.0599</b>	<b>0.5804</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>101.1147</b>	<b>101.1147</b>	<b>5.2800e-003</b>			<b>101.2257</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	4.0482	42.6971	33.8934	0.0399		2.1252	2.1252		1.9797	1.9797	0.0000	4,036.4674	4,036.4674	1.1073			4,059.7211
<b>Total</b>	<b>4.0482</b>	<b>42.6971</b>	<b>33.8934</b>	<b>0.0399</b>		<b>2.1252</b>	<b>2.1252</b>		<b>1.9797</b>	<b>1.9797</b>	<b>0.0000</b>	<b>4,036.4674</b>	<b>4,036.4674</b>	<b>1.1073</b>			<b>4,059.7211</b>

### 3.2 Demolition - 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	0.0000	0.0000	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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003		101.2257
<b>Total</b>	<b>0.0463</b>	<b>0.0599</b>	<b>0.5804</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>101.1147</b>	<b>101.1147</b>	<b>5.2800e-003</b>		<b>101.2257</b>

### 3.3 Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339		4,003.0859	4,003.0859	1.2265		4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>		<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>		<b>4,028.8432</b>

### 3.3 Site Preparation - 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	0.0000	0.0000	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	0.0556	0.0719	0.6965	1.5400e-003	0.1369	9.7000e-004	0.1379	0.0363	9.0000e-004	0.0372		121.3376	121.3376	6.3400e-003			121.4708
<b>Total</b>	<b>0.0556</b>	<b>0.0719</b>	<b>0.6965</b>	<b>1.5400e-003</b>	<b>0.1369</b>	<b>9.7000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.0000e-004</b>	<b>0.0372</b>		<b>121.3376</b>	<b>121.3376</b>	<b>6.3400e-003</b>			<b>121.4708</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.8382	51.7535	39.3970	0.0391		2.7542	2.7542		2.5339	2.5339	0.0000	4,003.0859	4,003.0859	1.2265			4,028.8432
<b>Total</b>	<b>4.8382</b>	<b>51.7535</b>	<b>39.3970</b>	<b>0.0391</b>	<b>18.0663</b>	<b>2.7542</b>	<b>20.8205</b>	<b>9.9307</b>	<b>2.5339</b>	<b>12.4646</b>	<b>0.0000</b>	<b>4,003.0859</b>	<b>4,003.0859</b>	<b>1.2265</b>			<b>4,028.8432</b>

### 3.3 Site Preparation - 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	0.0000	0.0000	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	0.0556	0.0719	0.6965	1.5400e-003	0.1369	9.7000e-004	0.1379	0.0363	9.0000e-004	0.0372		121.3376	121.3376	6.3400e-003		121.4708
<b>Total</b>	<b>0.0556</b>	<b>0.0719</b>	<b>0.6965</b>	<b>1.5400e-003</b>	<b>0.1369</b>	<b>9.7000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>9.0000e-004</b>	<b>0.0372</b>		<b>121.3376</b>	<b>121.3376</b>	<b>6.3400e-003</b>		<b>121.4708</b>

### 3.4 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					7.2009	0.0000	7.2009	3.4375	0.0000	3.4375			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518		6,313.3690	6,313.3690	1.9344		6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.2009</b>	<b>3.3172</b>	<b>10.5181</b>	<b>3.4375</b>	<b>3.0518</b>	<b>6.4893</b>		<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>

### 3.4 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	0.0000	0.0000	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	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003		134.9676
<b>Total</b>	<b>0.0617</b>	<b>0.0799</b>	<b>0.7739</b>	<b>1.7100e-003</b>	<b>0.1521</b>	<b>1.0800e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>1.0000e-003</b>	<b>0.0414</b>		<b>134.8196</b>	<b>134.8196</b>	<b>7.0500e-003</b>		<b>134.9676</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					7.2009	0.0000	7.2009	3.4375	0.0000	3.4375			0.0000			0.0000
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518	0.0000	6,313.3690	6,313.3690	1.9344		6,353.9915
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.2009</b>	<b>3.3172</b>	<b>10.5181</b>	<b>3.4375</b>	<b>3.0518</b>	<b>6.4893</b>	<b>0.0000</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>

### 3.4 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	0.0000	0.0000	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	0.0617	0.0799	0.7739	1.7100e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		134.8196	134.8196	7.0500e-003			134.9676
<b>Total</b>	<b>0.0617</b>	<b>0.0799</b>	<b>0.7739</b>	<b>1.7100e-003</b>	<b>0.1521</b>	<b>1.0800e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>1.0000e-003</b>	<b>0.0414</b>		<b>134.8196</b>	<b>134.8196</b>	<b>7.0500e-003</b>			<b>134.9676</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>		<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	10.0132	56.1630	140.5692	0.1532	4.3302	0.8297	5.1599	1.2329	0.7621	1.9950		14,996.0588	14,996.0588	0.1165			14,998.5046
Worker	6.0813	7.8691	76.2271	0.1681	14.9858	0.1064	15.0922	3.9751	0.0981	4.0733		13,279.7304	13,279.7304	0.6941			13,294.3057
<b>Total</b>	<b>16.0945</b>	<b>64.0322</b>	<b>216.7963</b>	<b>0.3213</b>	<b>19.3159</b>	<b>0.9361</b>	<b>20.2520</b>	<b>5.2080</b>	<b>0.8602</b>	<b>6.0683</b>		<b>28,275.7892</b>	<b>28,275.7892</b>	<b>0.8105</b>			<b>28,292.8103</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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730	0.0000	2,639.8053	2,639.8053	0.6497			2,653.4490
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>	<b>0.0000</b>	<b>2,639.8053</b>	<b>2,639.8053</b>	<b>0.6497</b>			<b>2,653.4490</b>

### 3.5 Building Construction - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	10.0132	56.1630	140.5692	0.1532	4.3302	0.8297	5.1599	1.2329	0.7621	1.9950		14,996.0588	14,996.0588	0.1165			14,998.5046
Worker	6.0813	7.8691	76.2271	0.1681	14.9858	0.1064	15.0922	3.9751	0.0981	4.0733		13,279.7304	13,279.7304	0.6941			13,294.3057
<b>Total</b>	<b>16.0945</b>	<b>64.0322</b>	<b>216.7963</b>	<b>0.3213</b>	<b>19.3159</b>	<b>0.9361</b>	<b>20.2520</b>	<b>5.2080</b>	<b>0.8602</b>	<b>6.0683</b>		<b>28,275.7892</b>	<b>28,275.7892</b>	<b>0.8105</b>			<b>28,292.8103</b>

### 3.6 Paving - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473		2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.9074</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>		<b>2,281.0588</b>	<b>2,281.0588</b>	<b>0.6989</b>			<b>2,295.7360</b>

### 3.6 Paving - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003			101.2257
<b>Total</b>	<b>0.0463</b>	<b>0.0599</b>	<b>0.5804</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>101.1147</b>	<b>101.1147</b>	<b>5.2800e-003</b>			<b>101.2257</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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473	0.0000	2,281.0588	2,281.0588	0.6989			2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.9074</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>	<b>0.0000</b>	<b>2,281.0588</b>	<b>2,281.0588</b>	<b>0.6989</b>			<b>2,295.7360</b>

### 3.6 Paving - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0463	0.0599	0.5804	1.2800e-003	0.1141	8.1000e-004	0.1149	0.0303	7.5000e-004	0.0310		101.1147	101.1147	5.2800e-003			101.2257
<b>Total</b>	<b>0.0463</b>	<b>0.0599</b>	<b>0.5804</b>	<b>1.2800e-003</b>	<b>0.1141</b>	<b>8.1000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.5000e-004</b>	<b>0.0310</b>		<b>101.1147</b>	<b>101.1147</b>	<b>5.2800e-003</b>			<b>101.2257</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	287.9265					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>288.2588</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	1.2163	1.5738	15.2454	0.0336	2.9972	0.0213	3.0184	0.7950	0.0196	0.8147		2,655.946 1	2,655.946 1	0.1388			2,658.861 1
<b>Total</b>	<b>1.2163</b>	<b>1.5738</b>	<b>15.2454</b>	<b>0.0336</b>	<b>2.9972</b>	<b>0.0213</b>	<b>3.0184</b>	<b>0.7950</b>	<b>0.0196</b>	<b>0.8147</b>		<b>2,655.946 1</b>	<b>2,655.946 1</b>	<b>0.1388</b>			<b>2,658.861 1</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	287.9265					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297			282.0721
<b>Total</b>	<b>288.2588</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0297</b>			<b>282.0721</b>

### 3.7 Architectural Coating - 2017

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.2163	1.5738	15.2454	0.0336	2.9972	0.0213	3.0184	0.7950	0.0196	0.8147		2,655.946 1	2,655.946 1	0.1388		2,658.861 1
<b>Total</b>	<b>1.2163</b>	<b>1.5738</b>	<b>15.2454</b>	<b>0.0336</b>	<b>2.9972</b>	<b>0.0213</b>	<b>3.0184</b>	<b>0.7950</b>	<b>0.0196</b>	<b>0.8147</b>		<b>2,655.946 1</b>	<b>2,655.946 1</b>	<b>0.1388</b>		<b>2,658.861 1</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Elementary School	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.507436	0.069689	0.176394	0.141978	0.043819	0.006429	0.022470	0.018349	0.002445	0.002160	0.006237	0.000474	0.002120

### 5.0 Energy Detail

#### 5.1 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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

### 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	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
General Light Industry	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
General Office Building	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
Regional Shopping Center	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
Single Family Housing	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
Apartments Low Rise	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>0.0000</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>

### 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						
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	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
Regional Shopping Center	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
Single Family Housing	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
Apartments Low Rise	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>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>

### 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	6.6069	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730	0.0000	186.3795	186.3795	0.1785	0.0000	190.1289
Unmitigated	6.6069	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730	0.0000	186.3795	186.3795	0.1785	0.0000	190.1289

## 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	3.5050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1018	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730		186.3795	186.3795	0.1785		190.1289
<b>Total</b>	<b>6.6069</b>	<b>1.1885</b>	<b>103.0838</b>	<b>5.4700e-003</b>		<b>0.5730</b>	<b>0.5730</b>		<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>186.3795</b>	<b>186.3795</b>	<b>0.1785</b>	<b>0.0000</b>	<b>190.1289</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	3.5050					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1018	1.1885	103.0838	5.4700e-003		0.5730	0.5730		0.5730	0.5730		186.3795	186.3795	0.1785		190.1289
<b>Total</b>	<b>6.6069</b>	<b>1.1885</b>	<b>103.0838</b>	<b>5.4700e-003</b>		<b>0.5730</b>	<b>0.5730</b>		<b>0.5730</b>	<b>0.5730</b>	<b>0.0000</b>	<b>186.3795</b>	<b>186.3795</b>	<b>0.1785</b>	<b>0.0000</b>	<b>190.1289</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## Kammerer Road/Highway 99 SOI EIR - Operational Emissions Sacramento County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6,091.00	1000sqft	325.00	6,091,000.00	0
Elementary School	2,696.00	Student	33.00	225,394.69	0
General Light Industry	2,338.00	1000sqft	125.00	2,338,000.00	0
City Park	108.00	Acre	108.00	4,704,480.00	0
Apartments Low Rise	1,786.00	Dwelling Unit	87.00	1,786,000.00	4769
Single Family Housing	3,214.00	Dwelling Unit	430.00	5,785,200.00	8581
Regional Shopping Center	1,362.00	1000sqft	48.00	1,362,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<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 -

Land Use - Assumed land use scenario.

Construction Phase - Construction emissions calculated separately.

Off-road Equipment - Construction emissions calculated separately.



**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	103.5848	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410
Energy	1.6673	14.7817	9.9804	0.0909		1.1519	1.1519		1.1519	1.1519	0.0000	66,466.8276	66,466.8276	2.7710	0.8104	66,776.2327
Mobile	50.4685	83.8672	473.3507	1.7824	123.7078	1.9965	125.7043	33.1467	1.8445	34.9911	0.0000	113,424.3501	113,424.3501	3.1768	0.0000	113,491.0631
Waste						0.0000	0.0000		0.0000	0.0000	2,924.2635	0.0000	2,924.2635	172.8190	0.0000	6,553.4629
Water						0.0000	0.0000		0.0000	0.0000	727.5687	3,752.1532	4,479.7219	2.6886	1.6204	5,038.4934
<b>Total</b>	<b>155.7206</b>	<b>99.2432</b>	<b>534.8730</b>	<b>1.8761</b>	<b>123.7078</b>	<b>3.4349</b>	<b>127.1428</b>	<b>33.1467</b>	<b>3.2829</b>	<b>36.4296</b>	<b>3,651.8321</b>	<b>183,727.8711</b>	<b>187,379.7032</b>	<b>181.5363</b>	<b>2.4307</b>	<b>191,945.4930</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	103.5848	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410
Energy	1.6673	14.7817	9.9804	0.0909		1.1519	1.1519		1.1519	1.1519	0.0000	66,466.8276	66,466.8276	2.7710	0.8104	66,776.2327
Mobile	50.4685	83.8672	473.3507	1.7824	123.7078	1.9965	125.7043	33.1467	1.8445	34.9911	0.0000	113,424.3501	113,424.3501	3.1768	0.0000	113,491.0631
Waste						0.0000	0.0000		0.0000	0.0000	2,924.2635	0.0000	2,924.2635	172.8190	0.0000	6,553.4629
Water						0.0000	0.0000		0.0000	0.0000	727.5687	3,752.1532	4,479.7219	2.6981	1.6223	5,039.3059
<b>Total</b>	<b>155.7206</b>	<b>99.2432</b>	<b>534.8730</b>	<b>1.8761</b>	<b>123.7078</b>	<b>3.4349</b>	<b>127.1428</b>	<b>33.1467</b>	<b>3.2829</b>	<b>36.4296</b>	<b>3,651.8321</b>	<b>183,727.8711</b>	<b>187,379.7032</b>	<b>181.5459</b>	<b>2.4327</b>	<b>191,946.3055</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	-0.01	-0.08	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	Demolition	Demolition	1/1/2017	12/30/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

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**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	50.4685	83.8672	473.3507	1.7824	123.7078	1.9965	125.7043	33.1467	1.8445	34.9911	0.0000	113,424.3501	113,424.3501	3.1768	0.0000	113,491.0631
Unmitigated	50.4685	83.8672	473.3507	1.7824	123.7078	1.9965	125.7043	33.1467	1.8445	34.9911	0.0000	113,424.3501	113,424.3501	3.1768	0.0000	113,491.0631

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	11,769.74	12,787.76	10841.02	30,235,172	30,235,172
City Park	171.72	171.72	171.72	316,815	316,815
Elementary School	3,477.84	0.00	0.00	5,223,842	5,223,842
General Light Industry	16,295.86	3,086.16	1589.84	34,040,566	34,040,566
General Office Building	67,061.91	14,435.67	5969.18	104,941,030	104,941,030
Regional Shopping Center	58,484.28	68,059.14	34376.88	78,819,464	78,819,464
Single Family Housing	30,757.98	32,397.12	28186.78	78,586,648	78,586,648
<b>Total</b>	<b>188,019.33</b>	<b>130,937.57</b>	<b>81,135.42</b>	<b>332,163,538</b>	<b>332,163,538</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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.507436	0.069689	0.176394	0.141978	0.043819	0.006429	0.022470	0.018349	0.002445	0.002160	0.006237	0.000474	0.002120

## 5.0 Energy Detail

### 5.1 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	tons/yr										MT/yr					
NaturalGas Mitigated	1.6673	14.7817	9.9804	0.0909		1.1519	1.1519		1.1519	1.1519	0.0000	16,500.1183	16,500.1183	0.3163	0.3025	16,600.5352
NaturalGas Unmitigated	1.6673	14.7817	9.9804	0.0909		1.1519	1.1519		1.1519	1.1519	0.0000	16,500.1183	16,500.1183	0.3163	0.3025	16,600.5352
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	49,966.7093	49,966.7093	2.4547	0.5079	50,175.6975
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	49,966.7093	49,966.7093	2.4547	0.5079	50,175.6975

### 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					
Apartments Low Rise	2.4229e+007	0.1307	1.1164	0.4751	7.1300e-003		0.0903	0.0903		0.0903	0.0903	0.0000	1,292.9508	1,292.9508	0.0248	0.0237	1,300.8195
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	3.61308e+006	0.0195	0.1771	0.1488	1.0600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	192.8075	192.8075	3.7000e-003	3.5300e-003	193.9809
General Light Industry	8.65761e+007	0.4668	4.2439	3.5649	0.0255		0.3225	0.3225		0.3225	0.3225	0.0000	4,620.0325	4,620.0325	0.0886	0.0847	4,648.1493
General Office Building	8.37513e+007	0.4516	4.1055	3.4486	0.0246		0.3120	0.3120		0.3120	0.3120	0.0000	4,469.2856	4,469.2856	0.0857	0.0819	4,496.4850
Regional Shopping Center	7.6953e+006	0.0415	0.3772	0.3169	2.2600e-003		0.0287	0.0287		0.0287	0.0287	0.0000	410.6505	410.6505	7.8700e-003	7.5300e-003	413.1497
Single Family Housing	1.03336e+008	0.5572	4.7616	2.0262	0.0304		0.3850	0.3850		0.3850	0.3850	0.0000	5,514.3912	5,514.3912	0.1057	0.1011	5,547.9509
<b>Total</b>		<b>1.6673</b>	<b>14.7817</b>	<b>9.9804</b>	<b>0.0909</b>		<b>1.1519</b>	<b>1.1519</b>		<b>1.1519</b>	<b>1.1519</b>	<b>0.0000</b>	<b>16,500.1183</b>	<b>16,500.1183</b>	<b>0.3163</b>	<b>0.3025</b>	<b>16,600.5352</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					
Apartments Low Rise	2.4229e+007	0.1307	1.1164	0.4751	7.1300e-003		0.0903	0.0903		0.0903	0.0903	0.0000	1,292.9508	1,292.9508	0.0248	0.0237	1,300.8195
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	3.61308e+006	0.0195	0.1771	0.1488	1.0600e-003		0.0135	0.0135		0.0135	0.0135	0.0000	192.8075	192.8075	3.7000e-003	3.5300e-003	193.9809
General Light Industry	8.65761e+007	0.4668	4.2439	3.5649	0.0255		0.3225	0.3225		0.3225	0.3225	0.0000	4,620.0325	4,620.0325	0.0886	0.0847	4,648.1493
General Office Building	8.37513e+007	0.4516	4.1055	3.4486	0.0246		0.3120	0.3120		0.3120	0.3120	0.0000	4,469.2856	4,469.2856	0.0857	0.0819	4,496.4850
Regional Shopping Center	7.6953e+006	0.0415	0.3772	0.3169	2.2600e-003		0.0287	0.0287		0.0287	0.0287	0.0000	410.6505	410.6505	7.8700e-003	7.5300e-003	413.1497
Single Family Housing	1.03336e+008	0.5572	4.7616	2.0262	0.0304		0.3850	0.3850		0.3850	0.3850	0.0000	5,514.3912	5,514.3912	0.1057	0.1011	5,547.9509
<b>Total</b>		<b>1.6673</b>	<b>14.7817</b>	<b>9.9804</b>	<b>0.0909</b>		<b>1.1519</b>	<b>1.1519</b>		<b>1.1519</b>	<b>1.1519</b>	<b>0.0000</b>	<b>16,500.1183</b>	<b>16,500.1183</b>	<b>0.3163</b>	<b>0.3025</b>	<b>16,600.5352</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	6.76944e+006	1,812.5860	0.0891	0.0184	1,820.1673
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.855e+006	496.6946	0.0244	5.0500e-003	498.7720
General Light Industry	3.87173e+007	10,366.9432	0.5093	0.1054	10,410.3035
General Office Building	9.76996e+007	26,160.0665	1.2852	0.2659	26,269.4823
Regional Shopping Center	1.76651e+007	4,730.0199	0.2324	0.0481	4,749.8034
Single Family Housing	2.39035e+007	6,400.3991	0.3144	0.0651	6,427.1691
<b>Total</b>		<b>49,966.7093</b>	<b>2.4547</b>	<b>0.5079</b>	<b>50,175.6975</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	6.76944e+006	1,812.5860	0.0891	0.0184	1,820.1673
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	1.855e+006	496.6946	0.0244	5.0500e-003	498.7720
General Light Industry	3.87173e+007	10,366.9432	0.5093	0.1054	10,410.3035
General Office Building	9.76996e+007	26,160.0665	1.2852	0.2659	26,269.4823
Regional Shopping Center	1.76651e+007	4,730.0199	0.2324	0.0481	4,749.8034
Single Family Housing	2.39035e+007	6,400.3991	0.3144	0.0651	6,427.1691
<b>Total</b>		<b>49,966.7093</b>	<b>2.4547</b>	<b>0.5079</b>	<b>50,175.6975</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	103.5848	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410
Unmitigated	103.5848	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410

## 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	14.9722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	87.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5509	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410
<b>Total</b>	<b>103.5848</b>	<b>0.5942</b>	<b>51.5419</b>	<b>2.7300e-003</b>		<b>0.2865</b>	<b>0.2865</b>		<b>0.2865</b>	<b>0.2865</b>	<b>0.0000</b>	<b>84.5403</b>	<b>84.5403</b>	<b>0.0810</b>	<b>0.0000</b>	<b>86.2410</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	14.9722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	87.0617					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5509	0.5942	51.5419	2.7300e-003		0.2865	0.2865		0.2865	0.2865	0.0000	84.5403	84.5403	0.0810	0.0000	86.2410
<b>Total</b>	<b>103.5848</b>	<b>0.5942</b>	<b>51.5419</b>	<b>2.7300e-003</b>		<b>0.2865</b>	<b>0.2865</b>		<b>0.2865</b>	<b>0.2865</b>	<b>0.0000</b>	<b>84.5403</b>	<b>84.5403</b>	<b>0.0810</b>	<b>0.0000</b>	<b>86.2410</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	4,479.7219	2.6886	1.6204	5,038.4934
Mitigated	4,479.7219	2.6981	1.6223	5,039.3059

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	116.365 / 73.3606	265.1683	0.1527	0.0918	296.8358
City Park	0 / 128.68	120.5938	5.9200e-003	1.2300e-003	121.0982
Elementary School	6.53575 / 16.8062	26.7821	9.1600e-003	5.2800e-003	28.6105
General Light Industry	540.663 / 0	912.6075	0.6938	0.4233	1,058.4067
General Office Building	1082.58 / 663.514	2,449.1466	1.4198	0.8539	2,743.6833
Regional Shopping Center	100.887 / 61.8338	228.2394	0.1323	0.0796	255.6876
Single Family Housing	209.405 / 132.016	477.1842	0.2748	0.1652	534.1714
<b>Total</b>		<b>4,479.7219</b>	<b>2.6886</b>	<b>1.6204</b>	<b>5,038.4934</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	116.365 / 73.3606	265.1683	0.1533	0.0919	296.8817
City Park	0 / 128.68	120.5938	5.9200e-003	1.2300e-003	121.0982
Elementary School	6.53575 / 16.8062	26.7821	9.1900e-003	5.2800e-003	28.6130
General Light Industry	540.663 / 0	912.6075	0.6963	0.4238	1,058.6204
General Office Building	1082.58 / 663.514	2,449.1466	1.4248	0.8550	2,744.1110
Regional Shopping Center	100.887 / 61.8338	228.2394	0.1328	0.0797	255.7275
Single Family Housing	209.405 / 132.016	477.1842	0.2758	0.1654	534.2541
<b>Total</b>		<b>4,479.7219</b>	<b>2.6981</b>	<b>1.6224</b>	<b>5,039.3059</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,924.263 5	172.8190	0.0000	6,553.462 9
Unmitigated	2,924.263 5	172.8190	0.0000	6,553.462 9

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	821.56	166.7693	9.8558	0.0000	373.7407
City Park	9.29	1.8858	0.1115	0.0000	4.2262
Elementary School	492.02	99.8756	5.9025	0.0000	223.8277
General Light Industry	2899.12	588.4952	34.7791	0.0000	1,318.8556
General Office Building	5664.63	1,149.8687	67.9553	0.0000	2,576.9299
Regional Shopping Center	1430.1	290.2974	17.1561	0.0000	650.5751
Single Family Housing	3089.16	627.0716	37.0589	0.0000	1,405.3078
<b>Total</b>		<b>2,924.2635</b>	<b>172.8190</b>	<b>0.0000</b>	<b>6,553.4629</b>

### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	821.56	166.7693	9.8558	0.0000	373.7407
City Park	9.29	1.8858	0.1115	0.0000	4.2262
Elementary School	492.02	99.8756	5.9025	0.0000	223.8277
General Light Industry	2899.12	588.4952	34.7791	0.0000	1,318.8556
General Office Building	5664.63	1,149.8687	67.9553	0.0000	2,576.9299
Regional Shopping Center	1430.1	290.2974	17.1561	0.0000	650.5751
Single Family Housing	3089.16	627.0716	37.0589	0.0000	1,405.3078
<b>Total</b>		<b>2,924.2635</b>	<b>172.8190</b>	<b>0.0000</b>	<b>6,553.4629</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

## Kammerer Road/Highway 99 SOI EIR - Operational Emissions Sacramento County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6,091.00	1000sqft	325.00	6,091,000.00	0
Elementary School	2,696.00	Student	33.00	225,394.69	0
General Light Industry	2,338.00	1000sqft	125.00	2,338,000.00	0
City Park	108.00	Acre	108.00	4,704,480.00	0
Apartments Low Rise	1,786.00	Dwelling Unit	87.00	1,786,000.00	4769
Single Family Housing	3,214.00	Dwelling Unit	430.00	5,785,200.00	8581
Regional Shopping Center	1,362.00	1000sqft	48.00	1,362,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<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 -

Land Use - Assumed land use scenario.

Construction Phase - Construction emissions calculated separately.

Off-road Equipment - Construction emissions calculated separately.



**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	571.4971	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921	0.0000	745.5180	745.5180	0.7142	0.0000	760.5155
Energy	9.1357	80.9956	54.6871	0.4983		6.3119	6.3119		6.3119	6.3119		99,661.73 69	99,661.73 69	1.9102	1.8271	100,268.2 617
Mobile	349.3659	589.6222	3,532.312 7	11.6115	852.1302	13.3448	865.4750	227.6699	12.3285	239.9984		815,437.4 803	815,437.4 803	23.3655		815,928.1 566
<b>Total</b>	<b>929.9987</b>	<b>675.3717</b>	<b>3,999.334 7</b>	<b>12.1317</b>	<b>852.1302</b>	<b>21.9488</b>	<b>874.0790</b>	<b>227.6699</b>	<b>20.9325</b>	<b>248.6024</b>	<b>0.0000</b>	<b>915,844.7 352</b>	<b>915,844.7 352</b>	<b>25.9899</b>	<b>1.8271</b>	<b>916,956.9 338</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	571.4971	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921	0.0000	745.5180	745.5180	0.7142	0.0000	760.5155
Energy	9.1357	80.9956	54.6871	0.4983		6.3119	6.3119		6.3119	6.3119		99,661.73 69	99,661.73 69	1.9102	1.8271	100,268.2 617
Mobile	349.3659	589.6222	3,532.312 7	11.6115	852.1302	13.3448	865.4750	227.6699	12.3285	239.9984		815,437.4 803	815,437.4 803	23.3655		815,928.1 566
<b>Total</b>	<b>929.9987</b>	<b>675.3717</b>	<b>3,999.334 7</b>	<b>12.1317</b>	<b>852.1302</b>	<b>21.9488</b>	<b>874.0790</b>	<b>227.6699</b>	<b>20.9325</b>	<b>248.6024</b>	<b>0.0000</b>	<b>915,844.7 352</b>	<b>915,844.7 352</b>	<b>25.9899</b>	<b>1.8271</b>	<b>916,956.9 338</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	Demolition	Demolition	1/1/2017	12/30/2016	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	162	0.38
Demolition	Rubber Tired Dozers	0	8.00	255	0.40

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 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					
Unmitigated	349.3659	589.6222	3,532.3127	11.6115	852.1302	13.3448	865.4750	227.6699	12.3285	239.9984		815,437.4803	815,437.4803	23.3655		815,928.1566
Mitigated	349.3659	589.6222	3,532.3127	11.6115	852.1302	13.3448	865.4750	227.6699	12.3285	239.9984		815,437.4803	815,437.4803	23.3655		815,928.1566

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	11,769.74	12,787.76	10841.02	30,235,172	30,235,172
City Park	171.72	171.72	171.72	316,815	316,815
Elementary School	3,477.84	0.00	0.00	5,223,842	5,223,842
General Light Industry	16,295.86	3,086.16	1589.84	34,040,566	34,040,566
General Office Building	67,061.91	14,435.67	5969.18	104,941,030	104,941,030
Regional Shopping Center	58,484.28	68,059.14	34376.88	78,819,464	78,819,464
Single Family Housing	30,757.98	32,397.12	28186.78	78,586,648	78,586,648
<b>Total</b>	<b>188,019.33</b>	<b>130,937.57</b>	<b>81,135.42</b>	<b>332,163,538</b>	<b>332,163,538</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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.507436	0.069689	0.176394	0.141978	0.043819	0.006429	0.022470	0.018349	0.002445	0.002160	0.006237	0.000474	0.002120

### 5.0 Energy Detail

#### 2.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	9.1357	80.9956	54.6871	0.4983		6.3119	6.3119		6.3119	6.3119		99,661.7369	99,661.7369	1.9102	1.8271	100,268.2617
NaturalGas Unmitigated	9.1357	80.9956	54.6871	0.4983		6.3119	6.3119		6.3119	6.3119		99,661.7369	99,661.7369	1.9102	1.8271	100,268.2617

## 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					
Apartments Low Rise	66380.8	0.7159	6.1174	2.6032	0.0391		0.4946	0.4946		0.4946	0.4946		7,809.5030	7,809.5030	0.1497	0.1432	7,857.0304
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	9898.84	0.1068	0.9705	0.8152	5.8200e-003		0.0738	0.0738		0.0738	0.0738		1,164.5695	1,164.5695	0.0223	0.0214	1,171.6569
General Light Industry	237195	2.5580	23.2544	19.5337	0.1395		1.7673	1.7673		1.7673	1.7673		27,905.2828	27,905.2828	0.5349	0.5116	28,075.1097
General Office Building	229455	2.4745	22.4956	18.8963	0.1350		1.7097	1.7097		1.7097	1.7097		26,994.7623	26,994.7623	0.5174	0.4949	27,159.0479
Regional Shopping Center	21083	0.2274	2.0670	1.7363	0.0124		0.1571	0.1571		0.1571	0.1571		2,480.3546	2,480.3546	0.0475	0.0455	2,495.4496
Single Family Housing	283112	3.0532	26.0907	11.1024	0.1665		2.1095	2.1095		2.1095	2.1095		33,307.2647	33,307.2647	0.6384	0.6106	33,509.9672
<b>Total</b>		<b>9.1357</b>	<b>80.9956</b>	<b>54.6871</b>	<b>0.4983</b>		<b>6.3119</b>	<b>6.3119</b>		<b>6.3119</b>	<b>6.3119</b>		<b>99,661.7369</b>	<b>99,661.7369</b>	<b>1.9102</b>	<b>1.8271</b>	<b>100,268.2617</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					
Apartments Low Rise	66.3808	0.7159	6.1174	2.6032	0.0391		0.4946	0.4946		0.4946	0.4946		7,809.5030	7,809.5030	0.1497	0.1432	7,857.0304
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Elementary School	9.89884	0.1068	0.9705	0.8152	5.8200e-003		0.0738	0.0738		0.0738	0.0738		1,164.5695	1,164.5695	0.0223	0.0214	1,171.6569
General Light Industry	237.195	2.5580	23.2544	19.5337	0.1395		1.7673	1.7673		1.7673	1.7673		27,905.2828	27,905.2828	0.5349	0.5116	28,075.1097
General Office Building	229.455	2.4745	22.4956	18.8963	0.1350		1.7097	1.7097		1.7097	1.7097		26,994.7623	26,994.7623	0.5174	0.4949	27,159.0479
Regional Shopping Center	21.083	0.2274	2.0670	1.7363	0.0124		0.1571	0.1571		0.1571	0.1571		2,480.3546	2,480.3546	0.0475	0.0455	2,495.4496
Single Family Housing	283.112	3.0532	26.0907	11.1024	0.1665		2.1095	2.1095		2.1095	2.1095		33,307.2647	33,307.2647	0.6384	0.6106	33,509.9672
<b>Total</b>		<b>9.1357</b>	<b>80.9956</b>	<b>54.6871</b>	<b>0.4983</b>		<b>6.3119</b>	<b>6.3119</b>		<b>6.3119</b>	<b>6.3119</b>		<b>99,661.7369</b>	<b>99,661.7369</b>	<b>1.9102</b>	<b>1.8271</b>	<b>100,268.2617</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					
Unmitigated	571.4971	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921	0.0000	745.5180	745.5180	0.7142	0.0000	760.5155
Mitigated	571.4971	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921	0.0000	745.5180	745.5180	0.7142	0.0000	760.5155

## 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	82.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	477.0504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	12.4074	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921		745.5180	745.5180	0.7142		760.5155
<b>Total</b>	<b>571.4971</b>	<b>4.7539</b>	<b>412.3350</b>	<b>0.0219</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.2921</b>	<b>2.2921</b>	<b>0.0000</b>	<b>745.5180</b>	<b>745.5180</b>	<b>0.7142</b>	<b>0.0000</b>	<b>760.5155</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	82.0393					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	477.0504					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	12.4074	4.7539	412.3350	0.0219		2.2921	2.2921		2.2921	2.2921		745.5180	745.5180	0.7142		760.5155
<b>Total</b>	<b>571.4971</b>	<b>4.7539</b>	<b>412.3350</b>	<b>0.0219</b>		<b>2.2921</b>	<b>2.2921</b>		<b>2.2921</b>	<b>2.2921</b>	<b>0.0000</b>	<b>745.5180</b>	<b>745.5180</b>	<b>0.7142</b>	<b>0.0000</b>	<b>760.5155</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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