

# **Appendix E**

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**Air Quality and Greenhouse Gases  
Supporting Information**

## Yolo HCP/NCCP Construction and Operation Emissions Yolo County, Annual

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	100.00	Acre	100.00	4,356,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	6.8	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 - A park land use was used to represent a preserve

Construction Phase - Consolidated into one year

Off-road Equipment - Construction equipment required for preserve activities

Operational Off-Road Equipment - Anticipated equipment for preserve maintenance and operation

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	100.00
tblGrading	AcresOfGrading	250.00	387.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37
tblOperationalOffRoadEquipment	OperLoadFactor	0.38	0.38
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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	20.0410	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003
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	0.1099	0.3059	1.1318	2.2600e-003	8.8968	4.2200e-003	8.9010	0.9097	3.8800e-003	0.9136	0.0000	176.0617	176.0617	6.3900e-003	0.0000	176.1958
Offroad	0.1294	1.3130	1.0668	1.5000e-003		0.0851	0.0851		0.0783	0.0783	0.0000	138.9165	138.9165	0.0426	0.0000	139.8104
Waste						0.0000	0.0000		0.0000	0.0000	1.7457	0.0000	1.7457	0.1032	0.0000	3.9123
Water						0.0000	0.0000		0.0000	0.0000	0.0000	121.3155	121.3155	5.4900e-003	1.1300e-003	121.7825
<b>Total</b>	<b>20.2802</b>	<b>1.6189</b>	<b>2.1995</b>	<b>3.7600e-003</b>	<b>8.8968</b>	<b>0.0893</b>	<b>8.9861</b>	<b>0.9097</b>	<b>0.0822</b>	<b>0.9919</b>	<b>1.7457</b>	<b>436.2955</b>	<b>438.0412</b>	<b>0.1576</b>	<b>1.1300e-003</b>	<b>441.7029</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	20.0410	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003
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	0.1099	0.3059	1.1318	2.2600e-003	8.8968	4.2200e-003	8.9010	0.9097	3.8800e-003	0.9136	0.0000	176.0617	176.0617	6.3900e-003	0.0000	176.1958
Offroad	0.1294	1.3130	1.0668	1.5000e-003		0.0851	0.0851		0.0783	0.0783	0.0000	138.9165	138.9165	0.0426	0.0000	139.8104
Waste						0.0000	0.0000		0.0000	0.0000	1.7457	0.0000	1.7457	0.1032	0.0000	3.9123
Water						0.0000	0.0000		0.0000	0.0000	0.0000	121.3155	121.3155	5.4900e-003	1.1300e-003	121.7825
<b>Total</b>	<b>20.2802</b>	<b>1.6189</b>	<b>2.1995</b>	<b>3.7600e-003</b>	<b>8.8968</b>	<b>0.0893</b>	<b>8.9861</b>	<b>0.9097</b>	<b>0.0822</b>	<b>0.9919</b>	<b>1.7457</b>	<b>436.2955</b>	<b>438.0412</b>	<b>0.1576</b>	<b>1.1300e-003</b>	<b>441.7029</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.64</b>	<b>81.10</b>	<b>48.50</b>	<b>39.89</b>	<b>0.00</b>	<b>95.28</b>	<b>0.95</b>	<b>0.00</b>	<b>95.28</b>	<b>7.89</b>	<b>0.00</b>	<b>31.84</b>	<b>31.71</b>	<b>27.00</b>	<b>0.00</b>	<b>31.65</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/20/2017	8/11/2017	5	60	
2	Grading	Grading	8/12/2017	12/29/2017	5	100	

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

**Acres of Grading (Grading Phase): 387.5**

**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
Site Preparation	Off-Highway Trucks	3	4.00	400	0.38
Grading	Excavators	2	8.00	162	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	25.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

### 3.2 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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1846	1.9974	1.3938	1.7700e-003		0.0991	0.0991		0.0912	0.0912	0.0000	164.0978	164.0978	0.0503	0.0000	165.1537
<b>Total</b>	<b>0.1846</b>	<b>1.9974</b>	<b>1.3938</b>	<b>1.7700e-003</b>	<b>0.5420</b>	<b>0.0991</b>	<b>0.6411</b>	<b>0.2979</b>	<b>0.0912</b>	<b>0.3891</b>	<b>0.0000</b>	<b>164.0978</b>	<b>164.0978</b>	<b>0.0503</b>	<b>0.0000</b>	<b>165.1537</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6100e-003	4.4300e-003	0.0423	1.1000e-004	0.9569	6.0000e-005	0.9569	0.0969	6.0000e-005	0.0970	0.0000	7.8445	7.8445	3.8000e-004	0.0000	7.8524
<b>Total</b>	<b>2.6100e-003</b>	<b>4.4300e-003</b>	<b>0.0423</b>	<b>1.1000e-004</b>	<b>0.9569</b>	<b>6.0000e-005</b>	<b>0.9569</b>	<b>0.0969</b>	<b>6.0000e-005</b>	<b>0.0970</b>	<b>0.0000</b>	<b>7.8445</b>	<b>7.8445</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>7.8524</b>



### 3.2 Site Preparation - 2017

#### 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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1846	1.9974	1.3938	1.7700e-003		0.0991	0.0991		0.0912	0.0912	0.0000	164.0976	164.0976	0.0503	0.0000	165.1535
<b>Total</b>	<b>0.1846</b>	<b>1.9974</b>	<b>1.3938</b>	<b>1.7700e-003</b>	<b>0.5420</b>	<b>0.0991</b>	<b>0.6411</b>	<b>0.2979</b>	<b>0.0912</b>	<b>0.3891</b>	<b>0.0000</b>	<b>164.0976</b>	<b>164.0976</b>	<b>0.0503</b>	<b>0.0000</b>	<b>165.1535</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6100e-003	4.4300e-003	0.0423	1.1000e-004	8.7900e-003	6.0000e-005	8.8500e-003	2.3500e-003	6.0000e-005	2.4000e-003	0.0000	7.8445	7.8445	3.8000e-004	0.0000	7.8524
<b>Total</b>	<b>2.6100e-003</b>	<b>4.4300e-003</b>	<b>0.0423</b>	<b>1.1000e-004</b>	<b>8.7900e-003</b>	<b>6.0000e-005</b>	<b>8.8500e-003</b>	<b>2.3500e-003</b>	<b>6.0000e-005</b>	<b>2.4000e-003</b>	<b>0.0000</b>	<b>7.8445</b>	<b>7.8445</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>7.8524</b>

### 3.3 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					0.5066	0.0000	0.5066	0.1877	0.0000	0.1877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3050	3.4796	2.3403	3.0900e-003		0.1659	0.1659		0.1526	0.1526	0.0000	286.3696	286.3696	0.0877	0.0000	288.2122
<b>Total</b>	<b>0.3050</b>	<b>3.4796</b>	<b>2.3403</b>	<b>3.0900e-003</b>	<b>0.5066</b>	<b>0.1659</b>	<b>0.6724</b>	<b>0.1877</b>	<b>0.1526</b>	<b>0.3403</b>	<b>0.0000</b>	<b>286.3696</b>	<b>286.3696</b>	<b>0.0877</b>	<b>0.0000</b>	<b>288.2122</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4900e-003	5.9000e-003	0.0564	1.4000e-004	1.2758	8.0000e-005	1.2759	0.1293	8.0000e-005	0.1293	0.0000	10.4593	10.4593	5.0000e-004	0.0000	10.4698
<b>Total</b>	<b>3.4900e-003</b>	<b>5.9000e-003</b>	<b>0.0564</b>	<b>1.4000e-004</b>	<b>1.2758</b>	<b>8.0000e-005</b>	<b>1.2759</b>	<b>0.1293</b>	<b>8.0000e-005</b>	<b>0.1293</b>	<b>0.0000</b>	<b>10.4593</b>	<b>10.4593</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>10.4698</b>

### 3.3 Grading - 2017

#### 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					0.5066	0.0000	0.5066	0.1877	0.0000	0.1877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3050	3.4796	2.3403	3.0900e-003		0.1659	0.1659		0.1526	0.1526	0.0000	286.3693	286.3693	0.0877	0.0000	288.2119
<b>Total</b>	<b>0.3050</b>	<b>3.4796</b>	<b>2.3403</b>	<b>3.0900e-003</b>	<b>0.5066</b>	<b>0.1659</b>	<b>0.6724</b>	<b>0.1877</b>	<b>0.1526</b>	<b>0.3403</b>	<b>0.0000</b>	<b>286.3693</b>	<b>286.3693</b>	<b>0.0877</b>	<b>0.0000</b>	<b>288.2119</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4900e-003	5.9000e-003	0.0564	1.4000e-004	0.0117	8.0000e-005	0.0118	3.1300e-003	8.0000e-005	3.2100e-003	0.0000	10.4593	10.4593	5.0000e-004	0.0000	10.4698
<b>Total</b>	<b>3.4900e-003</b>	<b>5.9000e-003</b>	<b>0.0564</b>	<b>1.4000e-004</b>	<b>0.0117</b>	<b>8.0000e-005</b>	<b>0.0118</b>	<b>3.1300e-003</b>	<b>8.0000e-005</b>	<b>3.2100e-003</b>	<b>0.0000</b>	<b>10.4593</b>	<b>10.4593</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>10.4698</b>

### 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1099	0.3059	1.1318	2.2600e-003	8.8968	4.2200e-003	8.9010	0.9097	3.8800e-003	0.9136	0.0000	176.0617	176.0617	6.3900e-003	0.0000	176.1958
Unmitigated	0.1099	0.3059	1.1318	2.2600e-003	8.8968	4.2200e-003	8.9010	0.9097	3.8800e-003	0.9136	0.0000	176.0617	176.0617	6.3900e-003	0.0000	176.1958

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	159.00	159.00	159.00	392,127	392,127
Total	159.00	159.00	159.00	392,127	392,127

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479563	0.067953	0.152843	0.149548	0.059518	0.006725	0.036021	0.034679	0.000926	0.001898	0.007583	0.000671	0.002073

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N



### 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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<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			
City Park	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

	ROG	NOx	CO	SO2	Fugitive 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	20.0410	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003
Unmitigated	20.0410	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003

### 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	3.0285					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.0124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003
<b>Total</b>	<b>20.0410</b>	<b>1.0000e-005</b>	<b>9.4000e-004</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>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8900e-003</b>

#### 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	3.0285					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.0124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7900e-003	1.7900e-003	0.0000	0.0000	1.8900e-003
<b>Total</b>	<b>20.0410</b>	<b>1.0000e-005</b>	<b>9.4000e-004</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>1.7900e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8900e-003</b>

### 7.0 Water Detail



### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	121.3155	5.4900e-003	1.1300e-003	121.7825
Unmitigated	121.3155	5.4900e-003	1.1300e-003	121.7825

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 119.148	121.3155	5.4900e-003	1.1300e-003	121.7825
<b>Total</b>		<b>121.3155</b>	<b>5.4900e-003</b>	<b>1.1300e-003</b>	<b>121.7825</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 119.148	121.3155	5.4900e-003	1.1300e-003	121.7825
<b>Total</b>		<b>121.3155</b>	<b>5.4900e-003</b>	<b>1.1300e-003</b>	<b>121.7825</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.7457	0.1032	0.0000	3.9123
Unmitigated	1.7457	0.1032	0.0000	3.9123

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	8.6	1.7457	0.1032	0.0000	3.9123
<b>Total</b>		<b>1.7457</b>	<b>0.1032</b>	<b>0.0000</b>	<b>3.9123</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	8.6	1.7457	0.1032	0.0000	3.9123
<b>Total</b>		<b>1.7457</b>	<b>0.1032</b>	<b>0.0000</b>	<b>3.9123</b>

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	2	8.00	260	97	0.37	Diesel
Excavators	1	8.00	260	162	0.38	Diesel

**UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Excavators	0.0473	0.5248	0.4470	6.9000e-004		0.0258	0.0258		0.0238	0.0238	0.0000	64.1523	64.1523	0.0197	0.0000	64.5651
Tractors/Loaders/Backhoes	0.0820	0.7882	0.6199	8.1000e-004		0.0593	0.0593		0.0545	0.0545	0.0000	74.7642	74.7642	0.0229	0.0000	75.2453
<b>Total</b>	<b>0.1294</b>	<b>1.3130</b>	<b>1.0668</b>	<b>1.5000e-003</b>		<b>0.0851</b>	<b>0.0851</b>		<b>0.0783</b>	<b>0.0783</b>	<b>0.0000</b>	<b>138.9165</b>	<b>138.9165</b>	<b>0.0426</b>	<b>0.0000</b>	<b>139.8104</b>

**10.0 Vegetation**

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## Yolo HCP/NCCP Construction and Operation Emissions

### Yolo County, Summer

### 1.0 Project Characteristics

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#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	100.00	Acre	100.00	4,356,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	6.8	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2017
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<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 Phase - Consolidated into one year

Off-road Equipment - Construction equipment required for preserve activities

Operational Off-Road Equipment - Anticipated equipment for preserve maintenance and operation

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	100.00
tblGrading	AcresOfGrading	250.00	387.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOperationalOffRoadEquipment	OperLoadFactor	0.37	0.37
tblOperationalOffRoadEquipment	OperLoadFactor	0.38	0.38
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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	109.8140	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232
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	0.6572	1.5730	6.1966	0.0133	48.9082	0.0232	48.9313	5.0045	0.0213	5.0258		1,138.0863	1,138.0863	0.0387		1,138.8990
Offroad	0.9950	10.1000	8.2064	0.0115		0.6546	0.6546		0.6022	0.6022		1,177.9174	1,177.9174	0.3609		1,185.4966
<b>Total</b>	<b>111.4662</b>	<b>11.6731</b>	<b>14.4134</b>	<b>0.0248</b>	<b>48.9082</b>	<b>0.6778</b>	<b>49.5860</b>	<b>5.0045</b>	<b>0.6236</b>	<b>5.6281</b>		<b>2,316.0256</b>	<b>2,316.0256</b>	<b>0.3997</b>	<b>0.0000</b>	<b>2,324.4187</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	lb/day										lb/day					
Area	109.8140	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232
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	0.6572	1.5730	6.1966	0.0133	48.9082	0.0232	48.9313	5.0045	0.0213	5.0258		1,138.0863	1,138.0863	0.0387		1,138.8990
Offroad	0.9950	10.1000	8.2064	0.0115		0.6546	0.6546		0.6022	0.6022		1,177.9174	1,177.9174	0.3609		1,185.4966
<b>Total</b>	<b>111.4662</b>	<b>11.6731</b>	<b>14.4134</b>	<b>0.0248</b>	<b>48.9082</b>	<b>0.6778</b>	<b>49.5860</b>	<b>5.0045</b>	<b>0.6236</b>	<b>5.6281</b>		<b>2,316.0256</b>	<b>2,316.0256</b>	<b>0.3997</b>	<b>0.0000</b>	<b>2,324.4187</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.89</b>	<b>86.52</b>	<b>56.94</b>	<b>46.45</b>	<b>0.00</b>	<b>96.58</b>	<b>1.32</b>	<b>0.00</b>	<b>96.58</b>	<b>10.70</b>	<b>0.00</b>	<b>50.86</b>	<b>50.86</b>	<b>90.30</b>	<b>0.00</b>	<b>51.00</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/20/2017	8/11/2017	5	60	
2	Grading	Grading	8/12/2017	12/29/2017	5	100	

Acres of Grading (Site Preparation Phase): 0

**Acres of Grading (Grading Phase): 387.5**

**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
Site Preparation	Off-Highway Trucks	3	4.00	400	0.38
Grading	Excavators	2	8.00	162	0.38
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	25.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 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	6.1527	66.5787	46.4602	0.0589		3.3046	3.3046		3.0402	3.0402		6,029.5615	6,029.5615	1.8475		6,068.3579
<b>Total</b>	<b>6.1527</b>	<b>66.5787</b>	<b>46.4602</b>	<b>0.0589</b>	<b>18.0663</b>	<b>3.3046</b>	<b>21.3708</b>	<b>9.9307</b>	<b>3.0402</b>	<b>12.9709</b>		<b>6,029.5615</b>	<b>6,029.5615</b>	<b>1.8475</b>		<b>6,068.3579</b>

**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	0.1031	0.1324	1.6512	4.0000e-003	37.3917	2.0800e-003	37.3938	3.7813	1.9200e-003	3.7833		317.7335	317.7335	0.0138		318.0236
<b>Total</b>	<b>0.1031</b>	<b>0.1324</b>	<b>1.6512</b>	<b>4.0000e-003</b>	<b>37.3917</b>	<b>2.0800e-003</b>	<b>37.3938</b>	<b>3.7813</b>	<b>1.9200e-003</b>	<b>3.7833</b>		<b>317.7335</b>	<b>317.7335</b>	<b>0.0138</b>		<b>318.0236</b>

**3.2 Site Preparation - 2017**

**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	6.1527	66.5787	46.4602	0.0589		3.3046	3.3046		3.0402	3.0402	0.0000	6,029.5615	6,029.5615	1.8475		6,068.3579
<b>Total</b>	<b>6.1527</b>	<b>66.5787</b>	<b>46.4602</b>	<b>0.0589</b>	<b>18.0663</b>	<b>3.3046</b>	<b>21.3708</b>	<b>9.9307</b>	<b>3.0402</b>	<b>12.9709</b>	<b>0.0000</b>	<b>6,029.5615</b>	<b>6,029.5615</b>	<b>1.8475</b>		<b>6,068.3579</b>

**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	0.1031	0.1324	1.6512	4.0000e-003	0.3027	2.0800e-003	0.3048	0.0806	1.9200e-003	0.0825		317.7335	317.7335	0.0138		318.0236
<b>Total</b>	<b>0.1031</b>	<b>0.1324</b>	<b>1.6512</b>	<b>4.0000e-003</b>	<b>0.3027</b>	<b>2.0800e-003</b>	<b>0.3048</b>	<b>0.0806</b>	<b>1.9200e-003</b>	<b>0.0825</b>		<b>317.7335</b>	<b>317.7335</b>	<b>0.0138</b>		<b>318.0236</b>

### 3.3 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					10.1315	0.0000	10.1315	3.7540	0.0000	3.7540			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>10.1315</b>	<b>3.3172</b>	<b>13.4487</b>	<b>3.7540</b>	<b>3.0518</b>	<b>6.8058</b>		<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>

#### 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	0.0824	0.1059	1.3209	3.2000e-003	29.9134	1.6700e-003	29.9151	3.0251	1.5300e-003	3.0266		254.1868	254.1868	0.0111		254.4188
<b>Total</b>	<b>0.0824</b>	<b>0.1059</b>	<b>1.3209</b>	<b>3.2000e-003</b>	<b>29.9134</b>	<b>1.6700e-003</b>	<b>29.9151</b>	<b>3.0251</b>	<b>1.5300e-003</b>	<b>3.0266</b>		<b>254.1868</b>	<b>254.1868</b>	<b>0.0111</b>		<b>254.4188</b>

### 3.3 Grading - 2017

#### 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					10.1315	0.0000	10.1315	3.7540	0.0000	3.7540			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>10.1315</b>	<b>3.3172</b>	<b>13.4487</b>	<b>3.7540</b>	<b>3.0518</b>	<b>6.8058</b>	<b>0.0000</b>	<b>6,313.3690</b>	<b>6,313.3690</b>	<b>1.9344</b>		<b>6,353.9915</b>

#### 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	0.0824	0.1059	1.3209	3.2000e-003	0.2421	1.6700e-003	0.2438	0.0645	1.5300e-003	0.0660		254.1868	254.1868	0.0111		254.4188
<b>Total</b>	<b>0.0824</b>	<b>0.1059</b>	<b>1.3209</b>	<b>3.2000e-003</b>	<b>0.2421</b>	<b>1.6700e-003</b>	<b>0.2438</b>	<b>0.0645</b>	<b>1.5300e-003</b>	<b>0.0660</b>		<b>254.1868</b>	<b>254.1868</b>	<b>0.0111</b>		<b>254.4188</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	0.6572	1.5730	6.1966	0.0133	48.9082	0.0232	48.9313	5.0045	0.0213	5.0258		1,138.0863	1,138.0863	0.0387		1,138.8990
Unmitigated	0.6572	1.5730	6.1966	0.0133	48.9082	0.0232	48.9313	5.0045	0.0213	5.0258		1,138.0863	1,138.0863	0.0387		1,138.8990

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	159.00	159.00	159.00	392,127	392,127
Total	159.00	159.00	159.00	392,127	392,127

### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.479563	0.067953	0.152843	0.149548	0.059518	0.006725	0.036021	0.034679	0.000926	0.001898	0.007583	0.000671	0.002073

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
<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
<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>

### 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	109.8140	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232
Unmitigated	109.8140	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232

### 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	16.5946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	93.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-003	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232
<b>Total</b>	<b>109.8140</b>	<b>1.0000e-004</b>	<b>0.0104</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0232</b>

#### 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	16.5946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	93.2184					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-003	1.0000e-004	0.0104	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0232
<b>Total</b>	<b>109.8140</b>	<b>1.0000e-004</b>	<b>0.0104</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0232</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
Tractors/Loaders/Backhoes	2	8.00	260	97	0.37	Diesel
Excavators	1	8.00	260	162	0.38	Diesel

**UnMitigated/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
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6310	6.0631	4.7683	6.2000e-003		0.4560	0.4560		0.4195	0.4195		633.9494	633.9494	0.1942		638.0284
Excavators	0.3640	4.0369	3.4382	5.3200e-003		0.1986	0.1986		0.1827	0.1827		543.9681	543.9681	0.1667		547.4682
<b>Total</b>	<b>0.9950</b>	<b>10.1000</b>	<b>8.2064</b>	<b>0.0115</b>		<b>0.6546</b>	<b>0.6546</b>		<b>0.6022</b>	<b>0.6022</b>		<b>1,177.9174</b>	<b>1,177.9174</b>	<b>0.3609</b>		<b>1,185.4966</b>

**10.0 Vegetation**