

## **APPENDIX A – AIR QUALITY ANALYSIS**



Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**Peters Canyon Regional Park - Phase 1**  
Orange County, Summer

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.00	Acre	11.00	479,160.00	0

**1.2 Other Project Characteristics**

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 30  
 Climate Zone 8 Operational Year 2020

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr) 702.44 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

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

## Peters Canyon Regional Park - Phase 1 - Orange County, Summer

Project Characteristics - Phase 1 opening year 2020.

Land Use - 11 AC City Park with 2,300 square feet of building area.

Construction Phase - 40 days Demo, 40 days Grading, 300 days Construction, 32 days Paving, 28 days Painting.

Off-road Equipment -

Off-road Equipment - Construction - 2 cranes, 6 forklifts, 5 tractors/loaders/backhoes and default equipment.

Off-road Equipment -

Off-road Equipment - Grading - 2 graders, 4 tractors/loaders/backhoes and default equipment.

Off-road Equipment -

Trips and VMT - Default worker and vendor trips used as worst case. 166 Demo haul trips + 500 Grading haul trips = Phase 1 total of 666 haul trips. 31 paving haul trips.

Demolition - 420 CY of demo material x 1.4 tons per CY = 588 tons of demolition material.

Grading - 1,330 CY material exported from site and 1,890 CY material imported to site.

Vehicle Trips - Default operational vehicle trips utilized as worst case.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Architectural Coating - 2,300 square feet of building area.

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	239,580.00	2,300.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	718,740.00	2,300.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	30.00	40.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	PhaseEndDate	2/6/2020	2/7/2020
tblConstructionPhase	PhaseEndDate	9/19/2019	11/14/2019
tblConstructionPhase	PhaseEndDate	11/14/2019	12/30/2019
tblConstructionPhase	PhaseStartDate	11/15/2019	1/1/2020
tblConstructionPhase	PhaseStartDate	9/20/2019	11/15/2019
tblGrading	MaterialExported	0.00	1,330.00
tblGrading	MaterialImported	0.00	1,890.00
tblLandUse	BuildingSpacesSquareFeet	0.00	479,160.00
tblLandUse	GreenSpaceSquareFeet	479,160.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	HaulingTripNumber	58.00	166.00
tblTripsAndVMT	HaulingTripNumber	403.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	31.00

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## **2.0 Emissions Summary**

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

lb/day																
Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	6.3752	75.8990	43.6659	0.0880	9.7433	3.2556	12.9990	3.7977	2.9958	6.7935	0.0000	8,951.718 <sub>3</sub>	8,951.718 <sub>3</sub>	2.4695	0.0000	9,013.456 <sub>0</sub>
2019	4.8140	44.2183	36.3228	0.0845	2.7515	2.1933	4.9448	0.7411	2.0461	2.7872	0.0000	8,503.544 <sub>9</sub>	8,503.544 <sub>9</sub>	1.3411	0.0000	8,537.071 <sub>8</sub>
2020	1.1574	1.7807	3.1407	7.3400e-003	0.4471	0.1139	0.5610	0.1186	0.1137	0.2322	0.0000	717.4655	717.4655	0.0317	0.0000	718.2588
<b>Maximum</b>	<b>6.3752</b>	<b>75.8990</b>	<b>43.6659</b>	<b>0.0880</b>	<b>9.7433</b>	<b>3.2556</b>	<b>12.9990</b>	<b>3.7977</b>	<b>2.9958</b>	<b>6.7935</b>	<b>0.0000</b>	<b>8,951.718<sub>3</sub></b>	<b>8,951.718<sub>3</sub></b>	<b>2.4695</b>	<b>0.0000</b>	<b>9,013.456<sub>0</sub></b>

**Mitigated Construction**

lb/day																
Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	6.3752	75.8990	43.6659	0.0880	4.1236	3.2556	7.3792	1.5681	2.9958	4.5639	0.0000	8,951.718 <sub>3</sub>	8,951.718 <sub>3</sub>	2.4695	0.0000	9,013.456 <sub>0</sub>
2019	4.8140	44.2183	36.3228	0.0845	2.7515	2.1933	4.9448	0.7411	2.0461	2.7872	0.0000	8,503.544 <sub>9</sub>	8,503.544 <sub>9</sub>	1.3411	0.0000	8,537.071 <sub>8</sub>
2020	1.1574	1.7807	3.1407	7.3400e-003	0.4471	0.1139	0.5610	0.1186	0.1137	0.2322	0.0000	717.4655	717.4655	0.0317	0.0000	718.2588
<b>Maximum</b>	<b>6.3752</b>	<b>75.8990</b>	<b>43.6659</b>	<b>0.0880</b>	<b>4.1236</b>	<b>3.2556</b>	<b>7.3792</b>	<b>1.5681</b>	<b>2.9958</b>	<b>4.5639</b>	<b>0.0000</b>	<b>8,951.718<sub>3</sub></b>	<b>8,951.718<sub>3</sub></b>	<b>2.4695</b>	<b>0.0000</b>	<b>9,013.456<sub>0</sub></b>



Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**2.2 Overall Operational**  
**Unmitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.4000	1.5781	5.0657	0.0179	1.5274	0.0176	1.5450	0.4084	0.0165	0.4249	1,816.9210	1,816.9210	1,816.9210	0.0771	0.0000	1,818.8476
<b>Total</b>	<b>11.1044</b>	<b>1.5781</b>	<b>5.0669</b>	<b>0.0179</b>	<b>1.5274</b>	<b>0.0176</b>	<b>1.5450</b>	<b>0.4084</b>	<b>0.0165</b>	<b>0.4249</b>	<b>1,816.9234</b>	<b>1,816.9234</b>	<b>1,816.9234</b>	<b>0.0771</b>	<b>0.0000</b>	<b>1,818.8502</b>

**Mitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.4000	1.5781	5.0657	0.0179	1.5274	0.0176	1.5450	0.4084	0.0165	0.4249	1,816.9210	1,816.9210	1,816.9210	0.0771	0.0000	1,818.8476
<b>Total</b>	<b>11.1044</b>	<b>1.5781</b>	<b>5.0669</b>	<b>0.0179</b>	<b>1.5274</b>	<b>0.0176</b>	<b>1.5450</b>	<b>0.4084</b>	<b>0.0165</b>	<b>0.4249</b>	<b>1,816.9234</b>	<b>1,816.9234</b>	<b>1,816.9234</b>	<b>0.0771</b>	<b>0.0000</b>	<b>1,818.8502</b>



Peters Canyon Regional Park - Phase 1 - Orange County, Summer

	ROG	NOx	CO	SO2	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	6/1/2018	7/26/2018	5	40	
2	Grading	Grading	7/27/2018	9/20/2018	5	40	
3	Building Construction	Building Construction	9/21/2018	11/14/2019	5	300	
4	Paving	Paving	11/15/2019	12/30/2019	5	32	
5	Architectural Coating	Architectural Coating	1/1/2020	2/7/2020	5	28	

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

**Acres of Grading (Grading Phase): 120**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,300; Non-Residential Outdoor: 2,300; Striped Parking Area: 0 (Architectural Coating – sqft)**

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	166.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	201.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	31.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					0.3146	0.0000	0.3146	0.0476	0.0000	0.0476			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.3146</b>	<b>1.9386</b>	<b>2.2531</b>	<b>0.0476</b>	<b>1.8048</b>	<b>1.8525</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.2 Demolition - 2018**

**Unmitigated Construction Off-Site**

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																
Hauling	0.0358	1.2965	0.2950	3.2600e-003	0.0723	5.1500e-003	0.0774	0.0198	4.9300e-003	0.0247		361.1939	361.1939	0.0377		362.1373
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	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162
<b>Total</b>	<b>0.1030</b>	<b>1.3421</b>	<b>0.8842</b>	<b>5.0000e-003</b>	<b>0.2399</b>	<b>6.2600e-003</b>	<b>0.2462</b>	<b>0.0643</b>	<b>5.9500e-003</b>	<b>0.0702</b>		<b>534.6953</b>	<b>534.6953</b>	<b>0.0423</b>		<b>535.7535</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					0.1227	0.0000	0.1227	0.0186	0.0000	0.0186			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386	1.8048	1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.1227</b>	<b>1.9386</b>	<b>2.0612</b>	<b>0.0186</b>	<b>1.8048</b>	<b>1.8234</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

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**3.2 Demolition - 2018**

**Mitigated Construction Off-Site**

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																
Hauling	0.0358	1.2965	0.2950	3.2600e-003	0.0723	5.1500e-003	0.0774	0.0198	4.9300e-003	0.0247		361.1939	361.1939	0.0377		362.1373
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	0.0672	0.0457	0.5892	1.7400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		173.5014	173.5014	4.5900e-003		173.6162
<b>Total</b>	<b>0.1030</b>	<b>1.3421</b>	<b>0.8842</b>	<b>5.0000e-003</b>	<b>0.2399</b>	<b>6.2600e-003</b>	<b>0.2462</b>	<b>0.0643</b>	<b>5.9500e-003</b>	<b>0.0702</b>		<b>534.6953</b>	<b>534.6953</b>	<b>0.0423</b>		<b>535.7535</b>

**3.3 Grading - 2018**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					9.2127	0.0000	9.2127	3.6551	0.0000	3.6551			0.0000			0.0000
Off-Road	6.1420	71.9088	41.6775	0.0749		3.2380	3.2380	2.9790	2.9790	2.9790		7,539.9156	7,539.9156	2.3473		7,598.5976
<b>Total</b>	<b>6.1420</b>	<b>71.9088</b>	<b>41.6775</b>	<b>0.0749</b>	<b>9.2127</b>	<b>3.2380</b>	<b>12.4507</b>	<b>3.6551</b>	<b>2.9790</b>	<b>6.6341</b>		<b>7,539.9156</b>	<b>7,539.9156</b>	<b>2.3473</b>		<b>7,598.5976</b>

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**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

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																
Hauling	0.1078	3.9050	0.8886	9.8100e-003	0.2177	0.0155	0.2332	0.0596	0.0149	0.0744		1,087.9334	1,087.9334	0.1137		1,090.7748
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	0.1254	0.0852	1.0999	3.2500e-003	0.3130	2.0700e-003	0.3150	0.0830	1.9000e-003	0.0849		323.8692	323.8692	8.5800e-003		324.0836
<b>Total</b>	<b>0.2332</b>	<b>3.9903</b>	<b>1.9884</b>	<b>0.0131</b>	<b>0.5307</b>	<b>0.0176</b>	<b>0.5482</b>	<b>0.1426</b>	<b>0.0168</b>	<b>0.1594</b>		<b>1,411.8026</b>	<b>1,411.8026</b>	<b>0.1222</b>		<b>1,414.8584</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					3.5930	0.0000	3.5930	1.4255	0.0000	1.4255			0.0000			0.0000
Off-Road	6.1420	71.9088	41.6775	0.0749		3.2380	3.2380	2.9790	2.9790	2.9790	0.0000	7,539.9156	7,539.9156	2.3473		7,598.5976
<b>Total</b>	<b>6.1420</b>	<b>71.9088</b>	<b>41.6775</b>	<b>0.0749</b>	<b>3.5930</b>	<b>3.2380</b>	<b>6.8310</b>	<b>1.4255</b>	<b>2.9790</b>	<b>4.4045</b>	<b>0.0000</b>	<b>7,539.9156</b>	<b>7,539.9156</b>	<b>2.3473</b>		<b>7,598.5976</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.3 Grading - 2018**

**Mitigated Construction Off-Site**

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																
Hauling	0.1078	3.9050	0.8886	9.8100e-003	0.2177	0.0155	0.2332	0.0596	0.0149	0.0744		1,087.9334	1,087.9334	0.1137		1,090.7748
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	0.1254	0.0852	1.0999	3.2500e-003	0.3130	2.0700e-003	0.3150	0.0830	1.9000e-003	0.0849		323.8692	323.8692	8.5800e-003		324.0836
<b>Total</b>	<b>0.2332</b>	<b>3.9903</b>	<b>1.9884</b>	<b>0.0131</b>	<b>0.5307</b>	<b>0.0176</b>	<b>0.5482</b>	<b>0.1426</b>	<b>0.0168</b>	<b>0.1594</b>		<b>1,411.8026</b>	<b>1,411.8026</b>	<b>0.1222</b>		<b>1,414.8584</b>

**3.4 Building Construction - 2018**

**Unmitigated Construction On-Site**

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																
Off-Road	4.1790	38.6837	27.5100	0.0420		2.4612	2.4612		2.2943	2.2943		4,137.6790	4,137.6790	1.1143		4,165.5367
<b>Total</b>	<b>4.1790</b>	<b>38.6837</b>	<b>27.5100</b>	<b>0.0420</b>		<b>2.4612</b>	<b>2.4612</b>		<b>2.2943</b>	<b>2.2943</b>		<b>4,137.6790</b>	<b>4,137.6790</b>	<b>1.1143</b>		<b>4,165.5367</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.4 Building Construction - 2018**  
**Unmitigated Construction Off-Site**

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																
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
Vendor	0.3200	9.4242	2.5285	0.0200	0.5048	0.0697	0.5745	0.1453	0.0667	0.2120	2,167.1939	2,167.1939	2,167.1939	0.1881			2,171.8956
Worker	0.8999	0.6118	7.8954	0.0233	2.2467	0.0148	2.2616	0.5958	0.0137	0.6095	2,324.9181	2,324.9181	2,324.9181	0.0616			2,326.4572
<b>Total</b>	<b>1.2199</b>	<b>10.0361</b>	<b>10.4239</b>	<b>0.0433</b>	<b>2.7515</b>	<b>0.0846</b>	<b>2.8361</b>	<b>0.7411</b>	<b>0.0804</b>	<b>0.8215</b>	<b>4,492.1119</b>	<b>4,492.1119</b>	<b>4,492.1119</b>	<b>0.2496</b>			<b>4,498.3528</b>

**Mitigated Construction On-Site**

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																
Off-Road	4.1790	38.6837	27.5100	0.0420		2.4612	2.4612		2.2943	2.2943	0.0000	4,137.6790	4,137.6790	1.1143			4,165.5367
<b>Total</b>	<b>4.1790</b>	<b>38.6837</b>	<b>27.5100</b>	<b>0.0420</b>		<b>2.4612</b>	<b>2.4612</b>		<b>2.2943</b>	<b>2.2943</b>	<b>0.0000</b>	<b>4,137.6790</b>	<b>4,137.6790</b>	<b>1.1143</b>			<b>4,165.5367</b>



Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.4 Building Construction - 2018**  
**Mitigated Construction Off-Site**

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																	
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
Vendor	0.3200	9.4242	2.5285	0.0200	0.5048	0.0697	0.5745	0.1453	0.0667	0.2120	2,167.1939	2,167.1939	2,167.1939	0.1881			2,171.8956
Worker	0.8999	0.6118	7.8954	0.0233	2.2467	0.0148	2.2616	0.5958	0.0137	0.6095	2,324.9181	2,324.9181	2,324.9181	0.0616			2,326.4572
<b>Total</b>	<b>1.2199</b>	<b>10.0361</b>	<b>10.4239</b>	<b>0.0433</b>	<b>2.7515</b>	<b>0.0846</b>	<b>2.8361</b>	<b>0.7411</b>	<b>0.0804</b>	<b>0.8215</b>	<b>4,492.1119</b>	<b>4,492.1119</b>	<b>4,492.1119</b>	<b>0.2496</b>			<b>4,498.3528</b>

**3.4 Building Construction - 2019**  
**Unmitigated Construction On-Site**

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																	
Off-Road	3.6895	34.7102	26.7825	0.0420	2.1177	2.1177	2.1177	1.9743	1.9743	1.9743	4,083.5489	4,083.5489	4,083.5489	1.1034			4,111.1333
<b>Total</b>	<b>3.6895</b>	<b>34.7102</b>	<b>26.7825</b>	<b>0.0420</b>	<b>2.1177</b>	<b>2.1177</b>	<b>2.1177</b>	<b>1.9743</b>	<b>1.9743</b>	<b>1.9743</b>	<b>4,083.5489</b>	<b>4,083.5489</b>	<b>4,083.5489</b>	<b>1.1034</b>			<b>4,111.1333</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.4 Building Construction - 2019**  
**Unmitigated Construction Off-Site**

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																
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
Vendor	0.2962	8.9649	2.3698	0.0199	0.5048	0.0606	0.5653	0.1453	0.0579	0.2032		2,156.454 1	2,156.454 1	0.1821		2,161.005 2
Worker	0.8284	0.5432	7.1705	0.0227	2.2467	0.0150	2.2617	0.5958	0.0138	0.6097		2,263.542 0	2,263.542 0	0.0557		2,264.933 3
<b>Total</b>	<b>1.1246</b>	<b>9.5081</b>	<b>9.5404</b>	<b>0.0426</b>	<b>2.7515</b>	<b>0.0756</b>	<b>2.8271</b>	<b>0.7411</b>	<b>0.0718</b>	<b>0.8129</b>		<b>4,419.996 1</b>	<b>4,419.996 1</b>	<b>0.2377</b>		<b>4,425.938 5</b>

**Mitigated Construction On-Site**

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																
Off-Road	3.6895	34.7102	26.7825	0.0420		2.1177	2.1177		1.9743	1.9743	0.0000	4,083.548 9	4,083.548 9	1.1034		4,111.133 3
<b>Total</b>	<b>3.6895</b>	<b>34.7102</b>	<b>26.7825</b>	<b>0.0420</b>		<b>2.1177</b>	<b>2.1177</b>		<b>1.9743</b>	<b>1.9743</b>	<b>0.0000</b>	<b>4,083.548 9</b>	<b>4,083.548 9</b>	<b>1.1034</b>		<b>4,111.1333</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.4 Building Construction - 2019**  
**Mitigated Construction Off-Site**

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																
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
Vendor	0.2962	8.9649	2.3698	0.0199	0.5048	0.0606	0.5653	0.1453	0.0579	0.2032	2,156.454	1	2,156.454	0.1821		2,161.005
Worker	0.8284	0.5432	7.1705	0.0227	2.2467	0.0150	2.2617	0.5958	0.0138	0.6097	2,263.542	0	2,263.542	0.0557		2,264.933
<b>Total</b>	<b>1.1246</b>	<b>9.5081</b>	<b>9.5404</b>	<b>0.0426</b>	<b>2.7515</b>	<b>0.0756</b>	<b>2.8271</b>	<b>0.7411</b>	<b>0.0718</b>	<b>0.8129</b>	<b>4,419.996</b>	<b>1</b>	<b>4,419.996</b>	<b>0.2377</b>		<b>4,425.938</b>

**3.5 Paving - 2019**

**Unmitigated Construction On-Site**

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																
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586			2,257.002	0.7141		2,274.854
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4544</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>			<b>2,257.002</b>	<b>0.7141</b>		<b>2,274.854</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.5 Paving - 2019**

**Unmitigated Construction Off-Site**

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															
Hauling	8.0500e-003	0.2872	0.0688	7.5000e-004	0.0169	1.1000e-003	0.0180	4.6200e-003	1.0500e-003	5.6700e-003		83.5617	83.5617	8.7200e-003		83.7798
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	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.0699</b>	<b>0.3277</b>	<b>0.6040</b>	<b>2.4400e-003</b>	<b>0.1845</b>	<b>2.2200e-003</b>	<b>0.1868</b>	<b>0.0491</b>	<b>2.0800e-003</b>	<b>0.0512</b>		<b>252.4828</b>	<b>252.4828</b>	<b>0.0129</b>		<b>252.8047</b>

**Mitigated Construction On-Site**

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															
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4544</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.5 Paving - 2019**

**Mitigated Construction Off-Site**

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																
Hauling	8.0500e-003	0.2872	0.0688	7.5000e-004	0.0169	1.1000e-003	0.0180	4.6200e-003	1.0500e-003	5.6700e-003		83.5617	83.5617	8.7200e-003		83.7798
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	0.0618	0.0405	0.5351	1.6900e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		168.9210	168.9210	4.1500e-003		169.0249
<b>Total</b>	<b>0.0699</b>	<b>0.3277</b>	<b>0.6040</b>	<b>2.4400e-003</b>	<b>0.1845</b>	<b>2.2200e-003</b>	<b>0.1868</b>	<b>0.0491</b>	<b>2.0800e-003</b>	<b>0.0512</b>		<b>252.4828</b>	<b>252.4828</b>	<b>0.0129</b>		<b>252.8047</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

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																
Archit. Coating	0.7615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.0036</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.6 Architectural Coating - 2020**  
**Unmitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1537	0.0968	1.3093	4.3700e-003	0.4471	2.9600e-003	0.4501	0.1186	2.7200e-003	0.1213	436.0174	436.0174	9.9400e-003	9.9400e-003	436.2659	436.2659
<b>Total</b>	<b>0.1537</b>	<b>0.0968</b>	<b>1.3093</b>	<b>4.3700e-003</b>	<b>0.4471</b>	<b>2.9600e-003</b>	<b>0.4501</b>	<b>0.1186</b>	<b>2.7200e-003</b>	<b>0.1213</b>	<b>436.0174</b>	<b>436.0174</b>	<b>9.9400e-003</b>	<b>9.9400e-003</b>	<b>436.2659</b>	<b>436.2659</b>

**Mitigated Construction On-Site**

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																
Archit. Coating	0.7615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.0036</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1537	0.0968	1.3093	4.3700e-003	0.4471	2.9600e-003	0.4501	0.1186	2.7200e-003	0.1213	436.0174	436.0174	9.9400e-003	9.9400e-003		436.2659
<b>Total</b>	<b>0.1537</b>	<b>0.0968</b>	<b>1.3093</b>	<b>4.3700e-003</b>	<b>0.4471</b>	<b>2.9600e-003</b>	<b>0.4501</b>	<b>0.1186</b>	<b>2.7200e-003</b>	<b>0.1213</b>	<b>436.0174</b>	<b>436.0174</b>	<b>9.9400e-003</b>	<b>9.9400e-003</b>		<b>436.2659</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.4000	1.5781	5.0657	0.0179	1.5274	0.0176	1.5450	0.4084	0.0165	0.4249	1,816.9210	1,816.9210	1,816.9210	0.0771		1,818.8476
Unmitigated	0.4000	1.5781	5.0657	0.0179	1.5274	0.0176	1.5450	0.4084	0.0165	0.4249	1,816.9210	1,816.9210	1,816.9210	0.0771		1,818.8476

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	20.79	250.25	184.14	221,299	221,299
Total	20.79	250.25	184.14	221,299	221,299

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-C	H-O or C-NW	H-S or C-C	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

5.0 Energy Detail

Historical Energy Use: N





Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

Land Use	Natural Gas Use kBTU/yr	CO	NOx	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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
Mitigated	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003
Unmitigated	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003

Peters Canyon Regional Park - Phase 1 - Orange County, Summer

**6.2 Area by SubCategory**

Unmitigated

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1300e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</b>

Mitigated

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1300e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</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 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**Peters Canyon Regional Park - Phase 1**  
Orange County, Winter

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.00	Acre	11.00	479,160.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW/hr)</b>	702.44	<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**

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

Project Characteristics - Phase 1 opening year 2020.

Land Use - 11 AC City Park with 2,300 square feet of building area.

Construction Phase - 40 days Demo, 40 days Grading, 300 days Construction, 32 days Paving, 28 days Painting.

Off-road Equipment -

Off-road Equipment - Construction - 2 cranes, 6 forklifts, 5 tractors/loaders/backhoes and default equipment.

Off-road Equipment -

Off-road Equipment - Grading - 2 graders, 4 tractors/loaders/backhoes and default equipment.

Off-road Equipment -

Trips and VMT - Default worker and vendor trips used as worst case. 166 Demo haul trips + 500 Grading haul trips = Phase 1 total of 666 haul trips. 31 paving haul trips.

Demolition - 420 CY of demo material x 1.4 tons per CY = 588 tons of demolition material.

Grading - 1,330 CY material exported from site and 1,890 CY material imported to site.

Vehicle Trips - Default operational vehicle trips utilized as worst case.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Architectural Coating - 2,300 square feet of building area.

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	239,580.00	2,300.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	718,740.00	2,300.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	30.00	40.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	PhaseEndDate	2/6/2020	2/7/2020
tblConstructionPhase	PhaseEndDate	9/19/2019	11/14/2019
tblConstructionPhase	PhaseEndDate	11/14/2019	12/30/2019
tblConstructionPhase	PhaseStartDate	11/15/2019	1/1/2020
tblConstructionPhase	PhaseStartDate	9/20/2019	11/15/2019
tblGrading	MaterialExported	0.00	1,330.00
tblGrading	MaterialImported	0.00	1,890.00
tblLandUse	BuildingSpacesSquareFeet	0.00	479,160.00
tblLandUse	GreenSpaceSquareFeet	479,160.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	HaulingTripNumber	58.00	166.00
tblTripsAndVMT	HaulingTripNumber	403.00	500.00
tblTripsAndVMT	HaulingTripNumber	0.00	31.00

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## **2.0 Emissions Summary**



Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	6.3941	75.9598	43.6431	0.0877	9.7433	3.2560	12.9993	3.7977	2.9961	6.7938	0.0000	8,918.4060	8,918.4060	2.4722	0.0000	8,980.2100
2019	4.9328	44.2816	36.0231	0.0828	2.7515	2.1944	4.9459	0.7411	2.0472	2.7883	0.0000	8,329.9596	8,329.9596	1.3478	0.0000	8,363.6547
2020	1.1774	1.7903	3.0416	7.1100e-003	0.4471	0.1139	0.5610	0.1186	0.1137	0.2322	0.0000	694.0965	694.0965	0.0312	0.0000	694.8767
<b>Maximum</b>	<b>6.3941</b>	<b>75.9598</b>	<b>43.6431</b>	<b>0.0877</b>	<b>9.7433</b>	<b>3.2560</b>	<b>12.9993</b>	<b>3.7977</b>	<b>2.9961</b>	<b>6.7938</b>	<b>0.0000</b>	<b>8,918.4060</b>	<b>8,918.4060</b>	<b>2.4722</b>	<b>0.0000</b>	<b>8,980.2100</b>

**Mitigated Construction**

Year	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
2018	6.3941	75.9598	43.6431	0.0877	4.1236	3.2560	7.3796	1.5681	2.9961	4.5642	0.0000	8,918.4060	8,918.4060	2.4722	0.0000	8,980.2100
2019	4.9328	44.2816	36.0231	0.0828	2.7515	2.1944	4.9459	0.7411	2.0472	2.7883	0.0000	8,329.9596	8,329.9596	1.3478	0.0000	8,363.6546
2020	1.1774	1.7903	3.0416	7.1100e-003	0.4471	0.1139	0.5610	0.1186	0.1137	0.2322	0.0000	694.0965	694.0965	0.0312	0.0000	694.8767
<b>Maximum</b>	<b>6.3941</b>	<b>75.9598</b>	<b>43.6431</b>	<b>0.0877</b>	<b>4.1236</b>	<b>3.2560</b>	<b>7.3796</b>	<b>1.5681</b>	<b>2.9961</b>	<b>4.5642</b>	<b>0.0000</b>	<b>8,918.4060</b>	<b>8,918.4060</b>	<b>2.4722</b>	<b>0.0000</b>	<b>8,980.2100</b>



Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**2.2 Overall Operational**  
**Unmitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.3942	1.6241	4.8750	0.0171	1.5274	0.0177	1.5450	0.4084	0.0166	0.4250	1,735.4510	1,735.4510	1,735.4510	0.0769	0.0000	1,737.3734
<b>Total</b>	<b>11.0986</b>	<b>1.6241</b>	<b>4.8761</b>	<b>0.0171</b>	<b>1.5274</b>	<b>0.0177</b>	<b>1.5450</b>	<b>0.4084</b>	<b>0.0166</b>	<b>0.4250</b>	<b>1,735.4534</b>	<b>1,735.4534</b>	<b>1,735.4534</b>	<b>0.0769</b>	<b>0.0000</b>	<b>1,737.3759</b>

**Mitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.3942	1.6241	4.8750	0.0171	1.5274	0.0177	1.5450	0.4084	0.0166	0.4250	1,735.4510	1,735.4510	1,735.4510	0.0769	0.0000	1,737.3734
<b>Total</b>	<b>11.0986</b>	<b>1.6241</b>	<b>4.8761</b>	<b>0.0171</b>	<b>1.5274</b>	<b>0.0177</b>	<b>1.5450</b>	<b>0.4084</b>	<b>0.0166</b>	<b>0.4250</b>	<b>1,735.4534</b>	<b>1,735.4534</b>	<b>1,735.4534</b>	<b>0.0769</b>	<b>0.0000</b>	<b>1,737.3759</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

	ROG	NOx	CO	SO2	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	6/1/2018	7/26/2018	5	40	
2	Grading	Grading	7/27/2018	9/20/2018	5	40	
3	Building Construction	Building Construction	9/21/2018	11/14/2019	5	300	
4	Paving	Paving	11/15/2019	12/30/2019	5	32	
5	Architectural Coating	Architectural Coating	1/1/2020	2/7/2020	5	28	

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

**Acres of Grading (Grading Phase): 120**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,300; Non-Residential Outdoor: 2,300; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	166.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	201.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	31.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2018**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					0.3146	0.0000	0.3146	0.0476	0.0000	0.0476			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386	1.8048	1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.3146</b>	<b>1.9386</b>	<b>2.2531</b>	<b>0.0476</b>	<b>1.8048</b>	<b>1.8525</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>		<b>3,898.4344</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.2 Demolition - 2018**

**Unmitigated Construction Off-Site**

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																
Hauling	0.0368	1.3138	0.3135	3.2100e-003	0.0723	5.2700e-003	0.0775	0.0198	5.0400e-003	0.0248		355.8864	355.8864	0.0388			356.8553
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	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003			164.3288
<b>Total</b>	<b>0.1125</b>	<b>1.3640</b>	<b>0.8606</b>	<b>4.8600e-003</b>	<b>0.2399</b>	<b>6.3800e-003</b>	<b>0.2463</b>	<b>0.0643</b>	<b>6.0600e-003</b>	<b>0.0703</b>		<b>520.1060</b>	<b>520.1060</b>	<b>0.0431</b>			<b>521.1841</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					0.1227	0.0000	0.1227	0.0186	0.0000	0.0186			0.0000				0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386	1.8048	1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667			3,898.4344
<b>Total</b>	<b>3.7190</b>	<b>38.3225</b>	<b>22.3040</b>	<b>0.0388</b>	<b>0.1227</b>	<b>1.9386</b>	<b>2.0612</b>	<b>0.0186</b>	<b>1.8048</b>	<b>1.8234</b>	<b>0.0000</b>	<b>3,871.7665</b>	<b>3,871.7665</b>	<b>1.0667</b>			<b>3,898.4344</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.2 Demolition - 2018**

**Mitigated Construction Off-Site**

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																
Hauling	0.0368	1.3138	0.3135	3.2100e-003	0.0723	5.2700e-003	0.0775	0.0198	5.0400e-003	0.0248		355.8864	355.8864	0.0388		356.8553
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	0.0757	0.0502	0.5471	1.6500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		164.2196	164.2196	4.3700e-003		164.3288
<b>Total</b>	<b>0.1125</b>	<b>1.3640</b>	<b>0.8606</b>	<b>4.8600e-003</b>	<b>0.2399</b>	<b>6.3800e-003</b>	<b>0.2463</b>	<b>0.0643</b>	<b>6.0600e-003</b>	<b>0.0703</b>		<b>520.1060</b>	<b>520.1060</b>	<b>0.0431</b>		<b>521.1841</b>

**3.3 Grading - 2018**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					9.2127	0.0000	9.2127	3.6551	0.0000	3.6551			0.0000			0.0000
Off-Road	6.1420	71.9088	41.6775	0.0749		3.2380	3.2380	2.9790	2.9790	2.9790		7,539.9156	7,539.9156	2.3473		7,598.5976
<b>Total</b>	<b>6.1420</b>	<b>71.9088</b>	<b>41.6775</b>	<b>0.0749</b>	<b>9.2127</b>	<b>3.2380</b>	<b>12.4507</b>	<b>3.6551</b>	<b>2.9790</b>	<b>6.6341</b>		<b>7,539.9156</b>	<b>7,539.9156</b>	<b>2.3473</b>		<b>7,598.5976</b>



Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

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																
Hauling	0.1108	3.9573	0.9444	9.6700e-003	0.2177	0.0159	0.2336	0.0596	0.0152	0.0748		1,071.9471	1,071.9471	0.1167		1,074.8654
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	0.1412	0.0937	1.0212	3.0800e-003	0.3130	2.0700e-003	0.3150	0.0830	1.9000e-003	0.0849		306.5433	306.5433	8.1500e-003		306.7470
<b>Total</b>	<b>0.2521</b>	<b>4.0510</b>	<b>1.9656</b>	<b>0.0128</b>	<b>0.5307</b>	<b>0.0179</b>	<b>0.5486</b>	<b>0.1426</b>	<b>0.0171</b>	<b>0.1597</b>		<b>1,378.4904</b>	<b>1,378.4904</b>	<b>0.1249</b>		<b>1,381.6124</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					3.5930	0.0000	3.5930	1.4255	0.0000	1.4255			0.0000			0.0000
Off-Road	6.1420	71.9088	41.6775	0.0749		3.2380	3.2380	2.9790	2.9790	2.9790	0.0000	7,539.9156	7,539.9156	2.3473		7,598.5976
<b>Total</b>	<b>6.1420</b>	<b>71.9088</b>	<b>41.6775</b>	<b>0.0749</b>	<b>3.5930</b>	<b>3.2380</b>	<b>6.8310</b>	<b>1.4255</b>	<b>2.9790</b>	<b>4.4045</b>	<b>0.0000</b>	<b>7,539.9156</b>	<b>7,539.9156</b>	<b>2.3473</b>		<b>7,598.5976</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.3 Grading - 2018**

**Mitigated Construction Off-Site**

lb/day																
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
Hauling	0.1108	3.9573	0.9444	9.6700e-003	0.2177	0.0159	0.2336	0.0596	0.0152	0.0748		1,071.9471	1,071.9471	0.1167		1,074.8654
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	0.1412	0.0937	1.0212	3.0800e-003	0.3130	2.0700e-003	0.3150	0.0830	1.9000e-003	0.0849		306.5433	306.5433	8.1500e-003		306.7470
<b>Total</b>	<b>0.2521</b>	<b>4.0510</b>	<b>1.9656</b>	<b>0.0128</b>	<b>0.5307</b>	<b>0.0179</b>	<b>0.5486</b>	<b>0.1426</b>	<b>0.0171</b>	<b>0.1597</b>		<b>1,378.4904</b>	<b>1,378.4904</b>	<b>0.1249</b>		<b>1,381.6124</b>

**3.4 Building Construction - 2018**

**Unmitigated Construction On-Site**

lb/day																
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
Off-Road	4.1790	38.6837	27.5100	0.0420		2.4612	2.4612		2.2943	2.2943		4,137.6790	4,137.6790	1.1143		4,165.5367
<b>Total</b>	<b>4.1790</b>	<b>38.6837</b>	<b>27.5100</b>	<b>0.0420</b>		<b>2.4612</b>	<b>2.4612</b>		<b>2.2943</b>	<b>2.2943</b>		<b>4,137.6790</b>	<b>4,137.6790</b>	<b>1.1143</b>		<b>4,165.5367</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.4 Building Construction - 2018**  
**Unmitigated Construction Off-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.3339	9.4392	2.7755	0.0195	0.5048	0.0710	0.5758	0.1453	0.0679	0.2132	2,114.9464	2,114.9464	0.1983	2,119.9027			
Worker	1.0139	0.6726	7.3309	0.0221	2.2467	0.0148	2.2616	0.5958	0.0137	0.6095	2,200.542	2,200.542	0.0585	2,202.005			2
<b>Total</b>	<b>1.3478</b>	<b>10.1118</b>	<b>10.1063</b>	<b>0.0416</b>	<b>2.7515</b>	<b>0.0858</b>	<b>2.8374</b>	<b>0.7411</b>	<b>0.0816</b>	<b>0.8227</b>	<b>4,315.489</b>	<b>4,315.489</b>	<b>0.2568</b>	<b>4,321.907</b>			<b>9</b>

**Mitigated Construction On-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	4.1790	38.6837	27.5100	0.0420	2.4612	2.4612	2.4612	2.2943	2.2943	2.2943	0.0000	4,137.679	4,137.679	1.1143			4,165.536
<b>Total</b>	<b>4.1790</b>	<b>38.6837</b>	<b>27.5100</b>	<b>0.0420</b>	<b>2.4612</b>	<b>2.4612</b>	<b>2.4612</b>	<b>2.2943</b>	<b>2.2943</b>	<b>2.2943</b>	<b>0.0000</b>	<b>4,137.679</b>	<b>4,137.679</b>	<b>1.1143</b>			<b>4,165.536</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.4 Building Construction - 2018**  
**Mitigated Construction Off-Site**

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																
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
Vendor	0.3339	9.4392	2.7755	0.0195	0.5048	0.0710	0.5758	0.1453	0.0679	0.2132		2,114.9464	2,114.9464	0.1983		2,119.9027
Worker	1.0139	0.6726	7.3309	0.0221	2.2467	0.0148	2.2616	0.5958	0.0137	0.6095		2,200.542	2,200.542	0.0585		2,202.005
<b>Total</b>	<b>1.3478</b>	<b>10.1118</b>	<b>10.1063</b>	<b>0.0416</b>	<b>2.7515</b>	<b>0.0858</b>	<b>2.8374</b>	<b>0.7411</b>	<b>0.0816</b>	<b>0.8227</b>		<b>4,315.489</b>	<b>4,315.489</b>	<b>0.2568</b>		<b>4,321.907</b>

**3.4 Building Construction - 2019**  
**Unmitigated Construction On-Site**

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																
Off-Road	3.6895	34.7102	26.7825	0.0420		2.1177	2.1177		1.9743	1.9743		4,083.548	4,083.548	1.1034		4,111.1333
<b>Total</b>	<b>3.6895</b>	<b>34.7102</b>	<b>26.7825</b>	<b>0.0420</b>		<b>2.1177</b>	<b>2.1177</b>		<b>1.9743</b>	<b>1.9743</b>		<b>4,083.548</b>	<b>4,083.548</b>	<b>1.1034</b>		<b>4,111.1333</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.4 Building Construction - 2019**  
**Unmitigated Construction Off-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.3088	8.9743	2.6020	0.0194	0.5048	0.0617	0.5665	0.1453	0.0590	0.2043	2,104.2056	2,104.2056	2,104.2056	0.1917		2,108.9968	
Worker	0.9345	0.5971	6.6386	0.0215	2.2467	0.0150	2.2617	0.5958	0.0138	0.6097	2,142.2051	2,142.2051	2,142.2051	0.0528		2,143.5246	
<b>Total</b>	<b>1.2434</b>	<b>9.5714</b>	<b>9.2406</b>	<b>0.0409</b>	<b>2.7515</b>	<b>0.0767</b>	<b>2.8282</b>	<b>0.7411</b>	<b>0.0728</b>	<b>0.8139</b>	<b>4,246.4107</b>	<b>4,246.4107</b>	<b>4,246.4107</b>	<b>0.2444</b>		<b>4,252.5214</b>	

**Mitigated Construction On-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	3.6895	34.7102	26.7825	0.0420		2.1177	2.1177		1.9743	1.9743	0.0000	4,083.5489	4,083.5489	1.1034		4,111.1333	
<b>Total</b>	<b>3.6895</b>	<b>34.7102</b>	<b>26.7825</b>	<b>0.0420</b>		<b>2.1177</b>	<b>2.1177</b>		<b>1.9743</b>	<b>1.9743</b>	<b>0.0000</b>	<b>4,083.5489</b>	<b>4,083.5489</b>	<b>1.1034</b>		<b>4,111.1333</b>	

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.4 Building Construction - 2019**  
**Mitigated Construction Off-Site**

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																
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
Vendor	0.3088	8.9743	2.6020	0.0194	0.5048	0.0617	0.5665	0.1453	0.0590	0.2043	2,104.2056	2,104.2056	2,104.2056	0.1917		2,108.9968
Worker	0.9345	0.5971	6.6386	0.0215	2.2467	0.0150	2.2617	0.5958	0.0138	0.6097	2,142.2051	2,142.2051	2,142.2051	0.0528		2,143.5246
<b>Total</b>	<b>1.2434</b>	<b>9.5714</b>	<b>9.2406</b>	<b>0.0409</b>	<b>2.7515</b>	<b>0.0767</b>	<b>2.8282</b>	<b>0.7411</b>	<b>0.0728</b>	<b>0.8139</b>	<b>4,246.4107</b>	<b>4,246.4107</b>	<b>4,246.4107</b>	<b>0.2444</b>		<b>4,252.5214</b>

**3.5 Paving - 2019**  
**Unmitigated Construction On-Site**

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																
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586			2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4544</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>			<b>2,257.0025</b>	<b>0.7141</b>		<b>2,274.8548</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.5 Paving - 2019**

**Unmitigated Construction Off-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Hauling	8.2600e-003	0.2909	0.0729	7.4000e-004	0.0169	1.1300e-003	0.0180	4.6200e-003	1.0800e-003	5.7000e-003		82.3235	82.3235	8.9500e-003			82.5471
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	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003			159.9645
<b>Total</b>	<b>0.0780</b>	<b>0.3355</b>	<b>0.5683</b>	<b>2.3400e-003</b>	<b>0.1845</b>	<b>2.2500e-003</b>	<b>0.1868</b>	<b>0.0491</b>	<b>2.1100e-003</b>	<b>0.0512</b>		<b>242.1895</b>	<b>242.1895</b>	<b>0.0129</b>			<b>242.5117</b>

**Mitigated Construction On-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141			2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000				0.0000
<b>Total</b>	<b>1.4544</b>	<b>15.2441</b>	<b>14.6648</b>	<b>0.0228</b>		<b>0.8246</b>	<b>0.8246</b>		<b>0.7586</b>	<b>0.7586</b>	<b>0.0000</b>	<b>2,257.0025</b>	<b>2,257.0025</b>	<b>0.7141</b>			<b>2,274.8548</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.5 Paving - 2019**

**Mitigated Construction Off-Site**

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																
Hauling	8.2600e-003	0.2909	0.0729	7.4000e-004	0.0169	1.1300e-003	0.0180	4.6200e-003	1.0800e-003	5.7000e-003		82.3235	82.3235	8.9500e-003		82.5471
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	0.0697	0.0446	0.4954	1.6000e-003	0.1677	1.1200e-003	0.1688	0.0445	1.0300e-003	0.0455		159.8661	159.8661	3.9400e-003		159.9645
<b>Total</b>	<b>0.0780</b>	<b>0.3355</b>	<b>0.5683</b>	<b>2.3400e-003</b>	<b>0.1845</b>	<b>2.2500e-003</b>	<b>0.1868</b>	<b>0.0491</b>	<b>2.1100e-003</b>	<b>0.0512</b>		<b>242.1895</b>	<b>242.1895</b>	<b>0.0129</b>		<b>242.5117</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

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																
Archit. Coating	0.7615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.0036</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>



Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.6 Architectural Coating - 2020**  
**Unmitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.1064	1.2102	4.1400e-003	0.4471	2.9600e-003	0.4501	0.1186	2.7200e-003	0.1213	412.6485	412.6485	412.6485	9.4100e-003		412.8838
<b>Total</b>	<b>0.1737</b>	<b>0.1064</b>	<b>1.2102</b>	<b>4.1400e-003</b>	<b>0.4471</b>	<b>2.9600e-003</b>	<b>0.4501</b>	<b>0.1186</b>	<b>2.7200e-003</b>	<b>0.1213</b>	<b>412.6485</b>	<b>412.6485</b>	<b>412.6485</b>	<b>9.4100e-003</b>		<b>412.8838</b>

**Mitigated Construction On-Site**

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																
Archit. Coating	0.7615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003	0.1109	0.1109	0.1109	0.1109	0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>1.0036</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.1064	1.2102	4.1400e-003	0.4471	2.9600e-003	0.4501	0.1186	2.7200e-003	0.1213	412.6485	412.6485	412.6485	9.4100e-003		412.8838
<b>Total</b>	<b>0.1737</b>	<b>0.1064</b>	<b>1.2102</b>	<b>4.1400e-003</b>	<b>0.4471</b>	<b>2.9600e-003</b>	<b>0.4501</b>	<b>0.1186</b>	<b>2.7200e-003</b>	<b>0.1213</b>	<b>412.6485</b>	<b>412.6485</b>	<b>412.6485</b>	<b>9.4100e-003</b>		<b>412.8838</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.3942	1.6241	4.8750	0.0171	1.5274	0.0177	1.5450	0.4084	0.0166	0.4250	1,735,451	0	1,735,451	0.0769		1,737,373
Unmitigated	0.3942	1.6241	4.8750	0.0171	1.5274	0.0177	1.5450	0.4084	0.0166	0.4250	1,735,451	0	1,735,451	0.0769		1,737,373

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	20.79	250.25	184.14	221,299	221,299
Total	20.79	250.25	184.14	221,299	221,299

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	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

5.0 Energy Detail

Historical Energy Use: N



Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

Land Use	Natural Gas Use	CO2	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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
Mitigated	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003
Unmitigated	10.7044	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003

Peters Canyon Regional Park - Phase 1 - Orange County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1300e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1300e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</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 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**Peters Canyon Regional Park - Phase 2**  
Orange County, Summer

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.00	Acre	11.00	479,160.00	0

**1.2 Other Project Characteristics**

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 30  
 Climate Zone 8 Operational Year 2022

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr) 702.44 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

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



Peters Canyon Regional Park - Phase 2 - Orange County, Summer

Project Characteristics - Phase 2 opening year 2023.

Land Use - 11 AC City Park with 400 square feet of building area.

Construction Phase - 10 days Demo, 10 days Grading, 125 days Construction, 20 days Paving, and 20 days Painting.

Off-road Equipment -

Off-road Equipment - Construction - 2 forklifts and default equipment.

Off-road Equipment -

Off-road Equipment - Grading - 3 tractors/loaders/backhoes and default equipment as worst case scenario.

Off-road Equipment -

Trips and VMT - 60 haul trips per project design. Default Worker and Vendor trips utilized as worst case scenario. 14 paving haul trips.

Demolition - 42 CY demolition material x 1.4 tons per CY = 58.8 tons demolition material

Grading -

Vehicle Trips - Default operational trips utilized as worst case scenario.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Architectural Coating - 400 square feet building area.

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	239,580.00	400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	718,740.00	400.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	300.00	125.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	2/14/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	10/25/2021	12/22/2021
tblConstructionPhase	PhaseEndDate	11/22/2021	1/30/2022
tblConstructionPhase	PhaseStartDate	11/23/2021	2/1/2022
tblConstructionPhase	PhaseStartDate	6/29/2021	7/1/2021
tblConstructionPhase	PhaseStartDate	10/26/2021	1/1/2022
tblLandUse	BuildingSpaceSquareFeet	0.00	479,160.00
tblLandUse	GreenSpaceSquareFeet	479,160.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	HaulingTripNumber	6.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00

2.0 Emissions Summary



Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**2.2 Overall Operational  
Unmitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.3459	1.3468	4.3943	0.0169	1.5276	0.0121	1.5397	0.4085	0.0113	0.4197	1,712.0774	1,712.0774	1,712.0774	0.0690	0.0000	1,713.8015
<b>Total</b>	<b>11.0504</b>	<b>1.3468</b>	<b>4.3954</b>	<b>0.0169</b>	<b>1.5276</b>	<b>0.0121</b>	<b>1.5397</b>	<b>0.4085</b>	<b>0.0113</b>	<b>0.4197</b>	<b>1,712.0798</b>	<b>1,712.0798</b>	<b>1,712.0798</b>	<b>0.0690</b>	<b>0.0000</b>	<b>1,713.8040</b>

**Mitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	0.0000	2.5700e-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	0.0000	0.0000
Mobile	0.3459	1.3468	4.3943	0.0169	1.5276	0.0121	1.5397	0.4085	0.0113	0.4197	1,712.0774	1,712.0774	1,712.0774	0.0690	0.0000	1,713.8015
<b>Total</b>	<b>11.0504</b>	<b>1.3468</b>	<b>4.3954</b>	<b>0.0169</b>	<b>1.5276</b>	<b>0.0121</b>	<b>1.5397</b>	<b>0.4085</b>	<b>0.0113</b>	<b>0.4197</b>	<b>1,712.0798</b>	<b>1,712.0798</b>	<b>1,712.0798</b>	<b>0.0690</b>	<b>0.0000</b>	<b>1,713.8040</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

	ROG	NOx	CO	SO2	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	6/1/2021	6/14/2021	5	10	
2	Grading	Grading	6/15/2021	6/28/2021	5	10	
3	Building Construction	Building Construction	7/1/2021	12/22/2021	5	125	
4	Paving	Paving	1/1/2022	1/30/2022	5	20	
5	Architectural Coating	Architectural Coating	2/1/2022	2/28/2022	5	20	

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

**Acres of Grading (Grading Phase): 25**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 400; Non-Residential Outdoor: 400; Striped Parking Area: 0**  
**(Architectural Coating – sqft)**

**OffRoad Equipment**

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	201.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					0.1258	0.0000	0.1258	0.0191	0.0000	0.0191			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>0.1258</b>	<b>1.5513</b>	<b>1.6772</b>	<b>0.0191</b>	<b>1.4411</b>	<b>1.4601</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

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																
Hauling	0.0432	1.5253	0.4190	4.5300e-003	0.1045	4.7900e-003	0.1093	0.0286	4.5800e-003	0.0332		505.5707	505.5707	0.0524		506.8811
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	0.0541	0.0328	0.4556	1.5800e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		157.8291	157.8291	3.3800e-003		157.9136
<b>Total</b>	<b>0.0974</b>	<b>1.5581</b>	<b>0.8746</b>	<b>6.1100e-003</b>	<b>0.2721</b>	<b>5.8800e-003</b>	<b>0.2780</b>	<b>0.0731</b>	<b>5.5800e-003</b>	<b>0.0786</b>		<b>663.3998</b>	<b>663.3998</b>	<b>0.0558</b>		<b>664.7947</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					0.0491	0.0000	0.0491	7.4300e-003	0.0000	7.4300e-003			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>0.0491</b>	<b>1.5513</b>	<b>1.6004</b>	<b>7.4300e-003</b>	<b>1.4411</b>	<b>1.4485</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

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																
Hauling	0.0432	1.5253	0.4190	4.5300e-003	0.1045	4.7900e-003	0.1093	0.0286	4.5800e-003	0.0332		505.5707	505.5707	0.0624		506.8811
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	0.0541	0.0328	0.4556	1.5800e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		157.8291	157.8291	3.3800e-003		157.9136
<b>Total</b>	<b>0.0974</b>	<b>1.5581</b>	<b>0.8746</b>	<b>6.1100e-003</b>	<b>0.2721</b>	<b>5.8800e-003</b>	<b>0.2780</b>	<b>0.0731</b>	<b>5.5800e-003</b>	<b>0.0786</b>		<b>663.3998</b>	<b>663.3998</b>	<b>0.0558</b>		<b>664.7947</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.3785	48.2956	33.1387	0.0651	2.0971	2.0971	2.0971	1.9293	1.9293	1.9293		6,307.9435	6,307.9435	2.0401		6,358.9464
<b>Total</b>	<b>4.3785</b>	<b>48.2956</b>	<b>33.1387</b>	<b>0.0651</b>	<b>8.6733</b>	<b>2.0971</b>	<b>10.7705</b>	<b>3.5965</b>	<b>1.9293</b>	<b>5.5258</b>		<b>6,307.9435</b>	<b>6,307.9435</b>	<b>2.0401</b>		<b>6,358.9464</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

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																
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
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
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606		210.4388	210.4388	4.5100e-003		210.5515
<b>Total</b>	<b>0.0722</b>	<b>0.0437</b>	<b>0.6075</b>	<b>2.1100e-003</b>	<b>0.2236</b>	<b>1.4500e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3300e-003</b>	<b>0.0606</b>		<b>210.4388</b>	<b>210.4388</b>	<b>4.5100e-003</b>		<b>210.5515</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.3785	48.2956	33.1387	0.0651	2.0971	2.0971	2.0971	1.9293	1.9293	1.9293	0.0000	6,307.9435	6,307.9435	2.0401		6,358.9464
<b>Total</b>	<b>4.3785</b>	<b>48.2956</b>	<b>33.1387</b>	<b>0.0651</b>	<b>3.3826</b>	<b>2.0971</b>	<b>5.4797</b>	<b>1.4026</b>	<b>1.9293</b>	<b>3.3320</b>	<b>0.0000</b>	<b>6,307.9435</b>	<b>6,307.9435</b>	<b>2.0401</b>		<b>6,358.9464</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606	210.4388	210.4388	210.4388	4.5100e-003	210.5515	210.5515
<b>Total</b>	<b>0.0722</b>	<b>0.0437</b>	<b>0.6075</b>	<b>2.1100e-003</b>	<b>0.2236</b>	<b>1.4500e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3300e-003</b>	<b>0.0606</b>	<b>210.4388</b>	<b>210.4388</b>	<b>210.4388</b>	<b>4.5100e-003</b>	<b>210.5515</b>	<b>210.5515</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

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																
Off-Road	1.7716	16.2530	15.4074	0.0254	0.8749	0.8749	0.8749	0.8243	0.8243	0.8243	2,405.333	2,405.333	2,405.333	0.5681	2,419.536	2,419.536
<b>Total</b>	<b>1.7716</b>	<b>16.2530</b>	<b>15.4074</b>	<b>0.0254</b>	<b>0.8749</b>	<b>0.8749</b>	<b>0.8749</b>	<b>0.8243</b>	<b>0.8243</b>	<b>0.8243</b>	<b>2,405.333</b>	<b>2,405.333</b>	<b>2,405.333</b>	<b>0.5681</b>	<b>2,419.536</b>	<b>2,419.536</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.2108	7.4113	2.0100	0.0195	0.5047	0.0154	0.5201	0.1453	0.0147	0.1600	2,123.4608	2,123.4608	2,123.4608	0.1665		2,127.6235	
Worker	0.7255	0.4390	6.1050	0.0212	2.2467	0.0145	2.2613	0.5958	0.0134	0.6092	2,114.9102	2,114.9102	2,114.9102	0.0453		2,116.0425	
<b>Total</b>	<b>0.9363</b>	<b>7.8503</b>	<b>8.1149</b>	<b>0.0407</b>	<b>2.7515</b>	<b>0.0299</b>	<b>2.7814</b>	<b>0.7411</b>	<b>0.0281</b>	<b>0.7692</b>	<b>4,238.3710</b>	<b>4,238.3710</b>	<b>4,238.3710</b>	<b>0.2118</b>		<b>4,243.6660</b>	

**Mitigated Construction On-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.7716	16.2530	15.4074	0.0254		0.8749	0.8749		0.8243	0.8243	0.0000	2,405.3331	2,405.3331	0.5681		2,419.5365	
<b>Total</b>	<b>1.7716</b>	<b>16.2530</b>	<b>15.4074</b>	<b>0.0254</b>		<b>0.8749</b>	<b>0.8749</b>		<b>0.8243</b>	<b>0.8243</b>	<b>0.0000</b>	<b>2,405.3331</b>	<b>2,405.3331</b>	<b>0.5681</b>		<b>2,419.5365</b>	

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.4 Building Construction - 2021**  
**Mitigated Construction Off-Site**

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																
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
Vendor	0.2108	7.4113	2.0100	0.0195	0.5047	0.0154	0.5201	0.1453	0.0147	0.1600	2,123,460 <sup>8</sup>	2,123,460 <sup>8</sup>	2,123,460 <sup>8</sup>	0.1665		2,127,623 <sup>5</sup>
Worker	0.7255	0.4390	6.1050	0.0212	2.2467	0.0145	2.2613	0.5958	0.0134	0.6092	2,114,910 <sup>2</sup>	2,114,910 <sup>2</sup>	2,114,910 <sup>2</sup>	0.0453		2,116,042 <sup>5</sup>
<b>Total</b>	<b>0.9363</b>	<b>7.8503</b>	<b>8.1149</b>	<b>0.0407</b>	<b>2.7515</b>	<b>0.0299</b>	<b>2.7814</b>	<b>0.7411</b>	<b>0.0281</b>	<b>0.7692</b>	<b>4,238,371<sup>0</sup></b>	<b>4,238,371<sup>0</sup></b>	<b>4,238,371<sup>0</sup></b>	<b>0.2118</b>		<b>4,243,666<sup>0</sup></b>

**3.5 Paving - 2022**  
**Unmitigated Construction On-Site**

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																
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	2,207,660 <sup>3</sup>	2,207,660 <sup>3</sup>	2,207,660 <sup>3</sup>	0.7140		2,225,510 <sup>4</sup>
Paving	0.0000					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>2,207,660<sup>3</sup></b>	<b>2,207,660<sup>3</sup></b>	<b>2,207,660<sup>3</sup></b>	<b>0.7140</b>		<b>2,225,510<sup>4</sup></b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

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															
Hauling	4.7900e-003	0.1635	0.0491	5.2000e-004	0.0122	4.8000e-004	0.0127	3.3400e-003	4.6000e-004	3.8000e-003		58.2064	58.2064	6.0400e-003		58.3574
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	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
<b>Total</b>	<b>0.0560</b>	<b>0.1932</b>	<b>0.4744</b>	<b>2.0400e-003</b>	<b>0.1799</b>	<b>1.5400e-003</b>	<b>0.1814</b>	<b>0.0478</b>	<b>1.4400e-003</b>	<b>0.0493</b>		<b>210.1866</b>	<b>210.1866</b>	<b>9.1100e-003</b>		<b>210.4143</b>

**Mitigated Construction On-Site**

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															
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 <sub>3</sub>	2,207.660 <sub>3</sub>	0.7140		2,225.510 <sub>4</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660<sub>3</sub></b>	<b>2,207.660<sub>3</sub></b>	<b>0.7140</b>		<b>2,225.510<sub>4</sub></b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

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																
Hauling	4.7900e-003	0.1635	0.0491	5.2000e-004	0.0122	4.8000e-004	0.0127	3.3400e-003	4.6000e-004	3.8000e-003		58.2064	58.2064	6.0400e-003		58.3574
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	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
<b>Total</b>	<b>0.0560</b>	<b>0.1932</b>	<b>0.4744</b>	<b>2.0400e-003</b>	<b>0.1799</b>	<b>1.5400e-003</b>	<b>0.1814</b>	<b>0.0478</b>	<b>1.4400e-003</b>	<b>0.0493</b>		<b>210.1866</b>	<b>210.1866</b>	<b>9.1100e-003</b>		<b>210.4143</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

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																
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.3899</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.6 Architectural Coating - 2022**  
**Unmitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1365	0.0791	1.1339	4.0600e-003	0.4471	2.8400e-003	0.4499	0.1186	2.6100e-003	0.1212	405.2805	405.2805	8.1900e-003	8.1900e-003	405.4851	405.4851
<b>Total</b>	<b>0.1365</b>	<b>0.0791</b>	<b>1.1339</b>	<b>4.0600e-003</b>	<b>0.4471</b>	<b>2.8400e-003</b>	<b>0.4499</b>	<b>0.1186</b>	<b>2.6100e-003</b>	<b>0.1212</b>	<b>405.2805</b>	<b>405.2805</b>	<b>8.1900e-003</b>	<b>8.1900e-003</b>	<b>405.4851</b>	<b>405.4851</b>

**Mitigated Construction On-Site**

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																
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.3899</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>



Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1365	0.0791	1.1339	4.0600e-003	0.4471	2.8400e-003	0.4499	0.1186	2.6100e-003	0.1212	405.2805	405.2805	405.2805	8.1900e-003		405.4851
<b>Total</b>	<b>0.1365</b>	<b>0.0791</b>	<b>1.1339</b>	<b>4.0600e-003</b>	<b>0.4471</b>	<b>2.8400e-003</b>	<b>0.4499</b>	<b>0.1186</b>	<b>2.6100e-003</b>	<b>0.1212</b>	<b>405.2805</b>	<b>405.2805</b>	<b>405.2805</b>	<b>8.1900e-003</b>		<b>405.4851</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

Category	lb/day															
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.3459	1.3468	4.3943	0.0169	1.5276	0.0121	1.5397	0.4085	0.0113	0.4197	1,712,077	4	1,712,077	0.0690	4	1,713,801
Unmitigated	0.3459	1.3468	4.3943	0.0169	1.5276	0.0121	1.5397	0.4085	0.0113	0.4197	1,712,077	4	1,712,077	0.0690	4	1,713,801

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	20.79	250.25	184.14	221,299	221,299
Total	20.79	250.25	184.14	221,299	221,299

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-C	H-O or C-NW	H-S or C-C	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N



Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

Land Use	Natural Gas Use kBtu/yr	CO	NOx	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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
Mitigated	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003
Unmitigated	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**6.2 Area by SubCategory**

Unmitigated

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1200e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</b>

Mitigated

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1200e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</b>

**7.0 Water Detail**

Peters Canyon Regional Park - Phase 2 - Orange County, Summer

**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 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
----------------	--------

**11.0 Vegetation**

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**Peters Canyon Regional Park - Phase 2**  
Orange County, Winter

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.00	Acre	11.00	479,160.00	0

**1.2 Other Project Characteristics**

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 30  
 Climate Zone 8 Operational Year 2022

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr) 702.44 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

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

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

Project Characteristics - Phase 2 opening year 2023.

Land Use - 11 AC City Park with 400 square feet of building area.

Construction Phase - 10 days Demo, 10 days Grading, 125 days Construction, 20 days Paving, and 20 days Painting.

Off-road Equipment -

Off-road Equipment - Construction - 2 forklifts and default equipment.

Off-road Equipment -

Off-road Equipment - Grading - 3 tractors/loaders/backhoes and default equipment as worst case scenario.

Off-road Equipment -

Trips and VMT - 60 haul trips per project design. Default Worker and Vendor trips utilized as worst case scenario. 14 paving haul trips.

Demolition - 42 CY demolition material x 1.4 tons per CY = 58.8 tons demolition material

Grading -

Vehicle Trips - Default operational trips utilized as worst case scenario.

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected.

Architectural Coating - 400 square feet building area.



Peters Canyon Regional Park - Phase 2 - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	239,580.00	400.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	718,740.00	400.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	300.00	125.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	2/14/2022	2/28/2022
tblConstructionPhase	PhaseEndDate	10/25/2021	12/22/2021
tblConstructionPhase	PhaseEndDate	11/22/2021	1/30/2022
tblConstructionPhase	PhaseStartDate	11/23/2021	2/1/2022
tblConstructionPhase	PhaseStartDate	6/29/2021	7/1/2021
tblConstructionPhase	PhaseStartDate	10/26/2021	1/1/2022
tblLandUse	BuildingSpaceSquareFeet	0.00	479,160.00
tblLandUse	GreenSpaceSquareFeet	479,160.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2018	2022
tblTripsAndVMT	HaulingTripNumber	6.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	14.00

2.0 Emissions Summary



Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**2.2 Overall Operational  
Unmitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-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	0.0000
Mobile	0.3400	1.3812	4.2179	0.0161	1.5276	0.0122	1.5397	0.4085	0.0113	0.4198		1,636.2429	1,636.2429	0.0689		1,637.9654
<b>Total</b>	<b>11.0445</b>	<b>1.3812</b>	<b>4.2190</b>	<b>0.0161</b>	<b>1.5276</b>	<b>0.0122</b>	<b>1.5397</b>	<b>0.4085</b>	<b>0.0113</b>	<b>0.4198</b>		<b>1,636.2454</b>	<b>1,636.2454</b>	<b>0.0689</b>	<b>0.0000</b>	<b>1,637.9679</b>

**Mitigated Operational**

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																
Area	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-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	0.0000
Mobile	0.3400	1.3812	4.2179	0.0161	1.5276	0.0122	1.5397	0.4085	0.0113	0.4198		1,636.2429	1,636.2429	0.0689		1,637.9654
<b>Total</b>	<b>11.0445</b>	<b>1.3812</b>	<b>4.2190</b>	<b>0.0161</b>	<b>1.5276</b>	<b>0.0122</b>	<b>1.5397</b>	<b>0.4085</b>	<b>0.0113</b>	<b>0.4198</b>		<b>1,636.2454</b>	<b>1,636.2454</b>	<b>0.0689</b>	<b>0.0000</b>	<b>1,637.9679</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

	ROG	NOx	CO	SO2	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	6/1/2021	6/14/2021	5	10	
2	Grading	Grading	6/15/2021	6/28/2021	5	10	
3	Building Construction	Building Construction	7/1/2021	12/22/2021	5	125	
4	Paving	Paving	1/1/2022	1/30/2022	5	20	
5	Architectural Coating	Architectural Coating	2/1/2022	2/28/2022	5	20	

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

**Acres of Grading (Grading Phase): 25**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 400; Non-Residential Outdoor: 400; Striped Parking Area: 0 (Architectural Coating – sqft)**

OffRoad Equipment

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	60.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	201.00	79.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	14.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					0.1258	0.0000	0.1258	0.0191	0.0000	0.0191			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513	1.4411	1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>0.1258</b>	<b>1.5513</b>	<b>1.6772</b>	<b>0.0191</b>	<b>1.4411</b>	<b>1.4601</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

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																
Hauling	0.0443	1.5433	0.4399	4.4600e-003	0.1045	4.8800e-003	0.1093	0.0286	4.6700e-003	0.0333		497.9102	497.9102	0.0536		499.2499
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	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
<b>Total</b>	<b>0.1056</b>	<b>1.5793</b>	<b>0.8603</b>	<b>5.9600e-003</b>	<b>0.2721</b>	<b>5.9700e-003</b>	<b>0.2781</b>	<b>0.0731</b>	<b>5.6700e-003</b>	<b>0.0787</b>		<b>647.2850</b>	<b>647.2850</b>	<b>0.0568</b>		<b>648.7047</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					0.0491	0.0000	0.0491	7.4300e-003	0.0000	7.4300e-003			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388	1.5513	1.5513	1.5513	1.4411	1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>0.0491</b>	<b>1.5513</b>	<b>1.6004</b>	<b>7.4300e-003</b>	<b>1.4411</b>	<b>1.4485</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

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																
Hauling	0.0443	1.5433	0.4399	4.4600e-003	0.1045	4.8800e-003	0.1093	0.0286	4.6700e-003	0.0333		497.9102	497.9102	0.0536		499.2499
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	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
<b>Total</b>	<b>0.1056</b>	<b>1.5793</b>	<b>0.8603</b>	<b>5.9600e-003</b>	<b>0.2721</b>	<b>5.9700e-003</b>	<b>0.2781</b>	<b>0.0731</b>	<b>5.6700e-003</b>	<b>0.0787</b>		<b>647.2850</b>	<b>647.2850</b>	<b>0.0568</b>		<b>648.7047</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

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																
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.3785	48.2956	33.1387	0.0651	2.0971	2.0971	2.0971	1.9293	1.9293	1.9293		6,307.9435	6,307.9435	2.0401		6,358.9464
<b>Total</b>	<b>4.3785</b>	<b>48.2956</b>	<b>33.1387</b>	<b>0.0651</b>	<b>8.6733</b>	<b>2.0971</b>	<b>10.7705</b>	<b>3.5965</b>	<b>1.9293</b>	<b>5.5258</b>		<b>6,307.9435</b>	<b>6,307.9435</b>	<b>2.0401</b>		<b>6,358.9464</b>



Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

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																
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
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
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606	199.1664	199.1664	4.2600e-003			199.2731
<b>Total</b>	<b>0.0817</b>	<b>0.0480</b>	<b>0.5605</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.4500e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3300e-003</b>	<b>0.0606</b>	<b>199.1664</b>	<b>199.1664</b>	<b>4.2600e-003</b>			<b>199.2731</b>

**Mitigated Construction On-Site**

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																
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.3785	48.2956	33.1387	0.0651	2.0971	2.0971	2.0971	1.9293	1.9293	1.9293	0.0000	6,307.9435	6,307.9435	2.0401		6,358.9464
<b>Total</b>	<b>4.3785</b>	<b>48.2956</b>	<b>33.1387</b>	<b>0.0651</b>	<b>3.3826</b>	<b>2.0971</b>	<b>5.4797</b>	<b>1.4026</b>	<b>1.9293</b>	<b>3.3320</b>	<b>0.0000</b>	<b>6,307.9435</b>	<b>6,307.9435</b>	<b>2.0401</b>		<b>6,358.9464</b>

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**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606	199.1664	199.1664	4.2600e-003	199.2731		199.2731
<b>Total</b>	<b>0.0817</b>	<b>0.0480</b>	<b>0.5605</b>	<b>2.0000e-003</b>	<b>0.2236</b>	<b>1.4500e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3300e-003</b>	<b>0.0606</b>	<b>199.1664</b>	<b>199.1664</b>	<b>4.2600e-003</b>	<b>199.2731</b>		<b>199.2731</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

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																
Off-Road	1.7716	16.2530	15.4074	0.0254	0.8749	0.8749	0.8749	0.8243	0.8243	0.8243	2,405.333	1	2,405.333	0.5681		2,419.536
<b>Total</b>	<b>1.7716</b>	<b>16.2530</b>	<b>15.4074</b>	<b>0.0254</b>	<b>0.8749</b>	<b>0.8749</b>	<b>0.8749</b>	<b>0.8243</b>	<b>0.8243</b>	<b>0.8243</b>	<b>2,405.333</b>	<b>1</b>	<b>2,405.333</b>	<b>0.5681</b>		<b>2,419.536</b>

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**3.4 Building Construction - 2021**  
**Unmitigated Construction Off-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.2213	7.3939	2.2051	0.0190	0.5047	0.0160	0.5207	0.1453	0.0153	0.1605	2,071.2931	2,071.2931	2,071.2931	0.1747		2,075.6593	
Worker	0.8214	0.4824	5.6334	0.0201	2.2467	0.0145	2.2613	0.5958	0.0134	0.6092	2,001.6227	2,001.6227	2,001.6227	0.0429		2,002.6943	
<b>Total</b>	<b>1.0427</b>	<b>7.8762</b>	<b>7.8385</b>	<b>0.0391</b>	<b>2.7515</b>	<b>0.0305</b>	<b>2.7820</b>	<b>0.7411</b>	<b>0.0287</b>	<b>0.7698</b>	<b>4,072.9158</b>	<b>4,072.9158</b>	<b>4,072.9158</b>	<b>0.2175</b>		<b>4,078.3536</b>	

**Mitigated Construction On-Site**

Category	lb/day																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Off-Road	1.7716	16.2530	15.4074	0.0254		0.8749	0.8749		0.8243	0.8243	0.0000	2,405.3331	2,405.3331	0.5681		2,419.5365	
<b>Total</b>	<b>1.7716</b>	<b>16.2530</b>	<b>15.4074</b>	<b>0.0254</b>		<b>0.8749</b>	<b>0.8749</b>		<b>0.8243</b>	<b>0.8243</b>	<b>0.0000</b>	<b>2,405.3331</b>	<b>2,405.3331</b>	<b>0.5681</b>		<b>2,419.5365</b>	

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**3.4 Building Construction - 2021**  
**Mitigated Construction Off-Site**

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																
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
Vendor	0.2213	7.3939	2.2051	0.0190	0.5047	0.0160	0.5207	0.1453	0.0153	0.1605	2,071.293 <sub>1</sub>	2,071.293 <sub>1</sub>	2,071.293 <sub>1</sub>	0.1747		2,075.659 <sub>3</sub>
Worker	0.8214	0.4824	5.6334	0.0201	2.2467	0.0145	2.2613	0.5958	0.0134	0.6092	2,001.622 <sub>7</sub>	2,001.622 <sub>7</sub>	2,001.622 <sub>7</sub>	0.0429		2,002.694 <sub>3</sub>
<b>Total</b>	<b>1.0427</b>	<b>7.8762</b>	<b>7.8385</b>	<b>0.0391</b>	<b>2.7515</b>	<b>0.0305</b>	<b>2.7820</b>	<b>0.7411</b>	<b>0.0287</b>	<b>0.7698</b>	<b>4,072.915<sub>8</sub></b>	<b>4,072.915<sub>8</sub></b>	<b>4,072.915<sub>8</sub></b>	<b>0.2175</b>		<b>4,078.353<sub>6</sub></b>

**3.5 Paving - 2022**  
**Unmitigated Construction On-Site**

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																
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679	0.5225	0.5225	0.5225	2,207.660 <sub>3</sub>	2,207.660 <sub>3</sub>	2,207.660 <sub>3</sub>	0.7140		2,225.510 <sub>4</sub>
Paving	0.0000					0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>	<b>0.5225</b>	<b>0.5225</b>	<b>0.5225</b>	<b>2,207.660<sub>3</sub></b>	<b>2,207.660<sub>3</sub></b>	<b>2,207.660<sub>3</sub></b>	<b>0.7140</b>		<b>2,225.510<sub>4</sub></b>

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**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

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															
Hauling	4.9000e-003	0.1653	0.0515	5.1000e-004	0.0122	4.9000e-004	0.0127	3.3400e-003	4.7000e-004	3.8100e-003		57.3188	57.3188	6.1700e-003		57.4729
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	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
<b>Total</b>	<b>0.0630</b>	<b>0.1979</b>	<b>0.4432</b>	<b>1.9500e-003</b>	<b>0.1799</b>	<b>1.5500e-003</b>	<b>0.1814</b>	<b>0.0478</b>	<b>1.4500e-003</b>	<b>0.0493</b>		<b>201.1656</b>	<b>201.1656</b>	<b>9.0700e-003</b>		<b>201.3923</b>

**Mitigated Construction On-Site**

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															
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 <sub>3</sub>	2,207.660 <sub>3</sub>	0.7140		2,225.510 <sub>4</sub>
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.660<sub>3</sub></b>	<b>2,207.660<sub>3</sub></b>	<b>0.7140</b>		<b>2,225.510<sub>4</sub></b>

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**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

lb/day																
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
Hauling	4.9000e-003	0.1653	0.0515	5.1000e-004	0.0122	4.9000e-004	0.0127	3.3400e-003	4.7000e-004	3.8100e-003		57.3188	57.3188	6.1700e-003		57.4729
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	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
<b>Total</b>	<b>0.0630</b>	<b>0.1979</b>	<b>0.4432</b>	<b>1.9500e-003</b>	<b>0.1799</b>	<b>1.5500e-003</b>	<b>0.1814</b>	<b>0.0478</b>	<b>1.4500e-003</b>	<b>0.0493</b>		<b>201.1656</b>	<b>201.1656</b>	<b>9.0700e-003</b>		<b>201.3923</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

lb/day																
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
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.3899</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

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**3.6 Architectural Coating - 2022**  
**Unmitigated Construction Off-Site**

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																
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1549	0.0870	1.0447	3.8500e-003	0.4471	2.8400e-003	0.4499	0.1186	2.6100e-003	0.1212	383.5915	383.5915	7.7400e-003	7.7400e-003		383.7850
<b>Total</b>	<b>0.1549</b>	<b>0.0870</b>	<b>1.0447</b>	<b>3.8500e-003</b>	<b>0.4471</b>	<b>2.8400e-003</b>	<b>0.4499</b>	<b>0.1186</b>	<b>2.6100e-003</b>	<b>0.1212</b>	<b>383.5915</b>	<b>383.5915</b>	<b>7.7400e-003</b>	<b>7.7400e-003</b>		<b>383.7850</b>

**Mitigated Construction On-Site**

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																
Archit. Coating	0.1854					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003	0.0817	0.0817	0.0817	0.0817	0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>0.3899</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

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															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1549	0.0870	1.0447	3.8500e-003	0.4471	2.8400e-003	0.4499	0.1186	2.6100e-003	0.1212	383.5915	383.5915	383.5915	7.7400e-003		383.7850
<b>Total</b>	<b>0.1549</b>	<b>0.0870</b>	<b>1.0447</b>	<b>3.8500e-003</b>	<b>0.4471</b>	<b>2.8400e-003</b>	<b>0.4499</b>	<b>0.1186</b>	<b>2.6100e-003</b>	<b>0.1212</b>	<b>383.5915</b>	<b>383.5915</b>	<b>383.5915</b>	<b>7.7400e-003</b>		<b>383.7850</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**



Peters Canyon Regional Park - Phase 2 - Orange County, Winter

Category	lb/day											lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	0.3400	1.3812	4.2179	0.0161	1.5276	0.0122	1.5397	0.4085	0.0113	0.4198	1,636,242	9	1,636,242	0.0689		1,637,965
Unmitigated	0.3400	1.3812	4.2179	0.0161	1.5276	0.0122	1.5397	0.4085	0.0113	0.4198	1,636,242	9	1,636,242	0.0689		1,637,965

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	20.79	250.25	184.14	221,299	221,299
Total	20.79	250.25	184.14	221,299	221,299

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-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-C	H-O or C-NW	Primary	Diverted	Pass-by	
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6			

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.000594	0.000594	0.000934

5.0 Energy Detail

Historical Energy Use: N



Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

Land Use	Natural Gas 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	
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	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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																
Mitigated	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003
Unmitigated	10.7044	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.4100e-003	2.4100e-003	2.4100e-003	1.0000e-005	1.0000e-005	2.5700e-003

Peters Canyon Regional Park - Phase 2 - Orange County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1200e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</b>

**Mitigated**

SubCategory	ROG	NOx	CO	SO2	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																
Architectural Coating	1.2169				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	9.4874				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-004	1.0000e-005	1.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		2.4100e-003	2.4100e-003	1.0000e-005		2.5700e-003
<b>Total</b>	<b>10.7044</b>	<b>1.0000e-005</b>	<b>1.1200e-003</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>2.4100e-003</b>	<b>2.4100e-003</b>	<b>1.0000e-005</b>		<b>2.5700e-003</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 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**