

APPENDIX E – GREENHOUSE GAS MODEL



La Puente Park Master Plan - Los Angeles-South Coast County, Annual

La Puente Park Master Plan
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.30	Acre	5.30	230,868.00	0
Parking Lot	3.20	Acre	3.20	139,392.00	0
Other Non-Asphalt Surfaces	0.80	Acre	0.80	34,848.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			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

Project Characteristics -

Land Use - City Park 5.3 ac with 6,000 sq ft of new buildings. New/Reconfigured Parking Lots 3.2 ac. Other Non-Asphalt 0.8 ac (BB Cts, Amph, Batting Cages, Splash Area, Stage, Sidewalks)

Construction Phase - Construction Start 1-1-20. Demo 4 weeks, Grading 12 weeks, Building 16 weeks (Painting concurrent with last 4 weeks of Building), Paving 6 weeks

Grading -

Demolition - Approx 1 acre of paved area to be demolished. At 4" deep and 145 lb per cu ft = 1,053 tons of paving debris

Trips and VMT - 6 Vendor Trips added to Demo and Grading to account for water truck emissions

Construction Off-road Equipment Mitigation - Water Exposed Area 2x per day selected to account for SCAQMD Rule 403 minimum requirements

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tbiConstructionPhase	NumDays	230.00	80.00
tbiConstructionPhase	NumDays	20.00	60.00
tbiConstructionPhase	NumDays	20.00	30.00
tbiConstructionPhase	PhaseEndDate	4/21/2021	8/11/2020
tbiConstructionPhase	PhaseEndDate	2/24/2021	8/11/2020
tbiConstructionPhase	PhaseEndDate	2/26/2020	1/28/2020
tbiConstructionPhase	PhaseEndDate	4/8/2020	4/21/2020
tbiConstructionPhase	PhaseEndDate	3/24/2021	9/22/2020
tbiConstructionPhase	PhaseStartDate	3/25/2021	7/15/2020
tbiConstructionPhase	PhaseStartDate	4/9/2020	4/22/2020
tbiConstructionPhase	PhaseStartDate	1/30/2020	1/1/2020
tbiConstructionPhase	PhaseStartDate	3/12/2020	1/29/2020
tbiConstructionPhase	PhaseStartDate	2/25/2021	8/12/2020
tbiTripsAndVMT	VendorTripNumber	0.00	6.00
tbiTripsAndVMT	VendorTripNumber	0.00	6.00

2.0 Emissions Summary

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-30-2020	4-29-2020	0.9629	0.9629
2	4-30-2020	7-29-2020	1.0114	1.0114
3	7-30-2020	9-30-2020	0.4105	0.4105
		Highest	1.0114	1.0114

**2.2 Overall Operational
Unmitigated Operational**

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.0403	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	2.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.5447	15.5447	6.4000e-004	1.3000e-004	15.6003
Mobile	0.0125	0.0627	0.1634	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0000	48.0011	48.0011	2.7200e-003	0.0000	48.0692
Waste						0.0000	0.0000		0.0000	0.0000	0.0934	0.0000	0.0934	5.5200e-003	0.0000	0.2313
Water						0.0000	0.0000		0.0000	0.0000	0.0000	22.3538	22.3538	9.2000e-004	1.9000e-004	22.4338
Total	0.0528	0.0627	0.1635	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0934	85.8998	85.9932	9.8000e-003	3.2000e-004	86.3349

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.0403	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004
Energy	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	15.5447	15.5447	6.4000e-004	1.3000e-004	0.0000	15.6003
Mobile	0.0125	0.0627	0.1634	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0000	48.0011	48.0011	2.7200e-003	0.0000	0.0000	48.0692
Waste					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0934	0.0000	0.0934	5.5200e-003	0.0000	0.0000	0.2313
Water					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	22.3538	22.3538	9.2000e-004	1.9000e-004	0.0000	22.4338
Total	0.0528	0.0627	0.1635	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0934	85.8998	85.9932	9.8000e-003	3.2000e-004	0.0000	86.3349

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

3.0 Construction Detail

Construction Phase

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/28/2020	5	20	
2	Grading	Grading	1/29/2020	4/21/2020	5	60	
3	Building Construction	Building Construction	4/22/2020	8/11/2020	5	80	
4	Architectural Coating	Architectural Coating	7/15/2020	8/11/2020	5	20	
5	Paving	Paving	8/12/2020	9/22/2020	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 30

Acres of Paving: 4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 3,000; Striped Parking Area: 10,454 (Architectural Coating – sqft)

OffRoad Equipment

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	6.00	104.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	170.00	66.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	34.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	0.0331	0.3320	0.2175	3.9000e-004	0.0113	0.0166	0.0279	1.7100e-003	0.0154	0.0171	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	4.6000e-004	0.0154	3.4000e-003	4.0000e-005	8.9000e-004	5.0000e-005	9.4000e-004	2.5000e-004	5.0000e-005	2.9000e-004	0.0000	4.0081	4.0081	2.8000e-004	0.0000	4.0151
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	1.3700e-003	0.0225	0.0113	8.0000e-005	2.9100e-003	9.0000e-005	3.0100e-003	8.0000e-004	9.0000e-005	8.8000e-004	0.0000	7.0307	7.0307	4.2000e-004	0.0000	7.0412

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					5.0700e-003	0.0000	5.0700e-003	7.7000e-004	0.0000	7.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166	0.0154	0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	0.0331	0.3320	0.2175	3.9000e-004	5.0700e-003	0.0166	0.0217	7.7000e-004	0.0154	0.0162	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.2 Demolition - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	4.6000e-004	0.0154	3.4000e-003	4.0000e-005	8.9000e-004	5.0000e-005	9.4000e-004	2.5000e-004	5.0000e-005	2.9000e-004	0.0000	4.0081	4.0081	2.8000e-004	0.0000	4.0151
Vendor	2.2000e-004	6.5000e-003	1.7600e-003	2.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.4906	1.4906	9.0000e-005	0.0000	1.4929
Worker	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	1.3700e-003	0.0225	0.0113	8.0000e-005	2.9100e-003	9.0000e-005	3.0100e-003	8.0000e-004	9.0000e-005	8.8000e-004	0.0000	7.0307	7.0307	4.2000e-004	0.0000	7.0412

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0729	0.7916	0.4816	8.9000e-004		0.0382	0.0382	0.0352	0.0352	0.0352	0.0000	78.1762	78.1762	0.0253	0.0000	78.8083
Total	0.0729	0.7916	0.4816	8.9000e-004	0.1966	0.0382	0.2348	0.1010	0.0352	0.1362	0.0000	78.1762	78.1762	0.0253	0.0000	78.8083

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.3 Grading - 2020

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	6.5000e-004	0.0195	5.2800e-003	5.0000e-005	1.1300e-003	9.0000e-005	1.2200e-003	3.3000e-004	9.0000e-005	4.1000e-004	0.0000	4.4717	4.4717	2.8000e-004	0.0000	4.4788
Worker	2.0800e-003	1.6800e-003	0.0185	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.5961	4.5961	1.4000e-004	0.0000	4.5997
Total	2.7300e-003	0.0212	0.0238	1.0000e-004	6.0600e-003	1.3000e-004	6.1900e-003	1.6400e-003	1.3000e-004	1.7600e-003	0.0000	9.0678	9.0678	4.2000e-004	0.0000	9.0785

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0885	0.0000	0.0885	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0729	0.7916	0.4816	8.9000e-004		0.0382	0.0382	0.0352	0.0352	0.0352	0.0000	78.1762	78.1762	0.0253	0.0000	78.8082
Total	0.0729	0.7916	0.4816	8.9000e-004	0.0885	0.0382	0.1267	0.0455	0.0352	0.0806	0.0000	78.1762	78.1762	0.0253	0.0000	78.8082

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.3 Grading - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	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	6.5000e-004	0.0195	5.2800e-003	5.0000e-005	1.1300e-003	9.0000e-005	1.2200e-003	3.3000e-004	9.0000e-005	4.1000e-004	0.0000	4.4717	4.4717	2.8000e-004	0.0000	0.0000	4.4788
Worker	2.0800e-003	1.6800e-003	0.0185	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.5961	4.5961	1.4000e-004	0.0000	0.0000	4.5997
Total	2.7300e-003	0.0212	0.0238	1.0000e-004	6.0600e-003	1.3000e-004	6.1900e-003	1.6400e-003	1.3000e-004	1.7600e-003	0.0000	9.0678	9.0678	4.2000e-004	0.0000	0.0000	9.0785

3.4 Building Construction - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0848	0.7674	0.6739	1.0800e-003		0.0447	0.0447		0.0420	0.0420	0.0000	92.6440	92.6440	0.0226	0.0000	93.2090
Total	0.0848	0.7674	0.6739	1.0800e-003		0.0447	0.0447		0.0420	0.0420	0.0000	92.6440	92.6440	0.0226	0.0000	93.2090

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	9.5700e-003	0.2861	0.0774	6.8000e-004	0.0166	1.3300e-003	0.0180	4.8000e-003	1.2700e-003	6.0700e-003	0.0000	65.5845	65.5845	4.1700e-003	0.0000	65.6887
Worker	0.0314	0.0253	0.2799	7.7000e-004	0.0745	6.4000e-004	0.0752	0.0198	5.9000e-004	0.0204	0.0000	69.4518	69.4518	2.1900e-003	0.0000	69.5066
Total	0.0410	0.3114	0.3574	1.4500e-003	0.0911	1.9700e-003	0.0931	0.0246	1.8600e-003	0.0265	0.0000	135.0364	135.0364	6.3600e-003	0.0000	135.1953

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0848	0.7674	0.6739	1.0800e-003		0.0447	0.0447		0.0420	0.0420	0.0000	92.6439	92.6439	0.0226	0.0000	93.2089
Total	0.0848	0.7674	0.6739	1.0800e-003		0.0447	0.0447		0.0420	0.0420	0.0000	92.6439	92.6439	0.0226	0.0000	93.2089

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2020
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	9.5700e-003	0.2861	0.0774	6.8000e-004	0.0166	1.3300e-003	0.0180	4.8000e-003	1.2700e-003	6.0700e-003	0.0000	65.5845	65.5845	4.1700e-003	0.0000	65.6887
Worker	0.0314	0.0253	0.2799	7.7000e-004	0.0745	6.4000e-004	0.0752	0.0198	5.9000e-004	0.0204	0.0000	69.4518	69.4518	2.1900e-003	0.0000	69.5066
Total	0.0410	0.3114	0.3574	1.4500e-003	0.0911	1.9700e-003	0.0931	0.0246	1.8600e-003	0.0265	0.0000	135.0364	135.0364	6.3600e-003	0.0000	135.1953

3.5 Architectural Coating - 2020
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003	1.1100e-003	1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.0545	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003	1.1100e-003	1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.5 Architectural Coating - 2020
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003	1.1100e-003		1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
Total	0.0545	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003	1.1100e-003		1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.5 Architectural Coating - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753
Total	1.5700e-003	1.2700e-003	0.0140	4.0000e-005	3.7300e-003	3.0000e-005	3.7600e-003	9.9000e-004	3.0000e-005	1.0200e-003	0.0000	3.4726	3.4726	1.1000e-004	0.0000	3.4753

3.6 Paving - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0204	0.2110	0.2198	3.4000e-004		0.0113	0.0113	0.0104	0.0104	0.0104	0.0000	30.0423	30.0423	9.7200e-003	0.0000	30.2852
Paving	4.1900e-003					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0245	0.2110	0.2198	3.4000e-004		0.0113	0.0113	0.0104	0.0104	0.0104	0.0000	30.0423	30.0423	9.7200e-003	0.0000	30.2852

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.6 Paving - 2020

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.4000e-004	9.2600e-003	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2980	2.2980	7.0000e-005	0.0000	2.2999
Total	1.0400e-003	8.4000e-004	9.2600e-003	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2980	2.2980	7.0000e-005	0.0000	2.2999

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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	0.0204	0.2110	0.2198	3.4000e-004		0.0113	0.0113	0.0104	0.0104	0.0104	0.0000	30.0423	30.0423	9.7200e-003	0.0000	30.2852
Paving	4.1900e-003					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0245	0.2110	0.2198	3.4000e-004		0.0113	0.0113	0.0104	0.0104	0.0104	0.0000	30.0423	30.0423	9.7200e-003	0.0000	30.2852

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

3.6 Paving - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.4000e-004	9.2600e-003	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2980	2.2980	7.0000e-005	0.0000	2.2999
Total	1.0400e-003	8.4000e-004	9.2600e-003	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2980	2.2980	7.0000e-005	0.0000	2.2999

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

Category	tons/yr													CO2e		
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2		CH4	N2O
Mitigated	0.0125	0.0627	0.1634	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0000	48.0011	48.0011	2.7200e-003	0.0000	48.0692
Unmitigated	0.0125	0.0627	0.1634	5.2000e-004	0.0405	5.4000e-004	0.0410	0.0109	5.1000e-004	0.0114	0.0000	48.0011	48.0011	2.7200e-003	0.0000	48.0692

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT		
City Park	10.02	120.58	88.72	106,626	106,626		
Other Non-Asphalt Surfaces	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Total	10.02	120.58	88.72	106,626	106,626		

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48787.2	15.5447	6.4000e-004	1.3000e-004	15.6003
Total		15.5447	6.4000e-004	1.3000e-004	15.6003

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48787.2	15.5447	6.4000e-004	1.3000e-004	15.6003
Total		15.5447	6.4000e-004	1.3000e-004	15.6003

6.0 Area Detail

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

6.1 Mitigation Measures Area

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	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	0.0403	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004
Unmitigated	0.0403	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004

6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004
Total	0.0403	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Mitigated

SubCategory	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Architectural Coating	5.2000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004
Total	0.0403	0.0000	1.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3000e-004	2.3000e-004	0.0000	0.0000	0.0000	2.5000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.3538	9.2000e-004	1.9000e-004	22.4338
Unmitigated	22.3538	9.2000e-004	1.9000e-004	22.4338

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 6.31485	22.3538	9.2000e-004	1.9000e-004	22.4338
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.3538	9.2000e-004	1.9000e-004	22.4338

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 6.31485	22.3538	9.2000e-004	1.9000e-004	22.4338
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		22.3538	9.2000e-004	1.9000e-004	22.4338

8.0 Waste Detail

8.1 Mitigation Measures Waste

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0934	5.5200e-003	0.0000	0.2313
Unmitigated	0.0934	5.5200e-003	0.0000	0.2313

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0934	5.5200e-003	0.0000	0.2313

La Puente Park Master Plan - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
					MT/yr
City Park	0.46	0.0934	5.5200e-003	0.0000	0.2313
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0934	5.5200e-003	0.0000	0.2313

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

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

11.0 Vegetation
