

Draft Environmental Impact Report (Draft EIR)

[State Clearinghouse No. 2012091037]

for

**Los Angeles International Airport (LAX)
West Aircraft Maintenance Area Project**

Volume 2

Appendix B

City of Los Angeles
Los Angeles World Airports

October 2013

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West Aircraft Maintenance Area Project**

Volume 2

Appendix B

City of Los Angeles
Los Angeles World Airports

October 2013

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APPENDIX B

Air Quality, Greenhouse Gas, and Human Health Risk Assessment

West Aircraft Maintenance Area Project

Draft EIR

Appendix B Air Quality, Greenhouse Gas, and Human Health Risk Assessment

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Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

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- Criteria Pollutants – CalEEMod Off-Road/On-Site, Worker Commute, Vendor Truck Delivery Emissions (Pounds per Day)
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 - Year 2 (2015)
 - Years 3-5 (2016-2018)
- GHGs – Construction Emissions Summary
- GHGs – Export Haul Truck On-Road/Off-Site Emissions
- GHGs – Batch Plant Truck On-Road/On-Site Emissions
- GHGs – Gas-fueled Vehicles/Equipment On-Road/On-Site Emissions
- Criteria Pollutant and GHGs – CalEEMod Off-Road/On-Site, Worker Commute, Vendor Truck Delivery Emissions (Tons per Year)
 - Year 1 (2014)
 - Year 2 (2015)
 - Years 3-5 (2016-2018)
- CalEEMod Mitigation Reports
 - Year 1 (2014)
 - Year 2 (2015)
 - Years 3-5 (2016-2018)
- SCAQMD Rule 403 Fugitive Dust

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Construction Model Inputs – Activities/Crew, Equipment, and Schedule

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Construction Model Inputs: Equipment and Schedule Parameters

Construction Activity Crew		Total Persons on Crew	Fuel Type	HP per Ea.	Max. Daily Hrs.	Schedule				
No. of Units	Equipment					2014	2015	2016	2017	2018
Administrative Support		12				Jan-Dec	Jan-Jul	Oct-Dec	Jan-Dec	Jan-Mar
1	1 - SUV		Gas	240	4					
8	8 - Pickups		Gas	230	6					
1	1 - Fuel Truck		Diesel	170	8					
1	1 - Mechanics Trucks w/ Crane		Diesel	200	8					
1	1 - Vacuum Sweeper		Diesel	170	8					
Environmental Crew		2				Jan-Feb	Jun-Jul			
1	1 - Pickup		Gas	230	8					
Fence Crew		2				Jan	Feb/Apr/Jun-Jul	Oct		Mar
1	1 - Pickup		Gas	230	4					
1	1 - Flat Bed Truck		Diesel	200	4					
Miscellaneous Labor Crew		5				Jan-Dec	Jan-Jul	Oct-Dec	Jan-Dec	Jan-Mar
1	1 - Pickup		Gas	230	8					
1	1 - CAT 428 Backhoe		Diesel	83	8					
Crusher Crew		4				Feb				
1	1 - Pickup		Gas	230	4					
2	2 - CAT 988 Loaders		Diesel	475	8					
1	1 - Crusher		Diesel	450	8					
Survey Crew		8				Jan-Dec	Jan-Jul	Oct-Dec	Jan-Apr	
1	1 - Pickup		Gas	230	4					
2	2 - Crew Vans		Gas	180	6					
Quality Control Team		5				Jan-Dec	Jan-Jul	Oct-Dec	Jan-Dec	Feb-Mar
5	5 - Pickups		Gas	230	8					
Batch Plant Crew		6				Jul-Dec*†	Jan-Feb*†	Oct-Dec†		
1	1 - Pickup		Gas	230	4					
2	2 - CAT 988 Loaders		Diesel	475	8					
PCCP Paving Crew		37				Jul-Dec*	Jan-Feb*			
1	1 - Gomaco GP-4000 Paver		Diesel	450	8					
2	2 - Gomaco RTP-500 Belt Placers		Diesel	200	8					
1	1 - Gomaco TC-400 Cure /Texture Rig		Diesel	70	8					
2	2 - Compactors (Gang Drills)		Diesel	85	8					
3	3 - Pickups		Gas	230	6					
2	2 - 1 Ton Flat Beds		Gas	200	6					
1	1 - Water Truck		Diesel	230	4					
2	2 - Walk Behind Saws		Gas	10	8					
13	13 - Tri-axle Dump Trucks		Diesel	350	8					

Construction Activity Crew		Schedule			Total Persons on Crew	HP per Ea.	Max. Daily Hrs.	2014	2015	2016	2017	2018
No. of Units	Equipment											
Grading Crew		10						Feb-Nov*‡				
1	1 - CAT 14H Motor Grader		Diesel	220	8							
1	1 - CAT 966 Loader		Diesel	235	8							
1	1 - CAT RM350B Reclaimer		Diesel	500	8							
2	2 - CAT CS 583E Compactors		Diesel	150	8							
1	1 - CAT 330C L Excavator		Diesel	247	8							
1	1-CAT 623 Scraper		Diesel	330	8							
1	1 - Water Truck		Diesel	230	4							
1	1 - Pickup		Gas	230	6							
8	8 - Tri-axle Dump Trucks		Diesel	350	8							
Excavation Crew		14						Feb-Jun*				
1	1 - CAT 966 Loader		Diesel	235	8							
2	2 - CAT 330C L Excavator		Diesel	247	8							
1	1 - Water Truck		Diesel	230	4							
1	1 - Pickup		Gas	230	6							
8	8 - Tri-axle Dump Trucks		Diesel	350	8							
Electrical Crew		4						Jun-Dec	Jan-Apr		Dec	Jan
1	1 - CAT 428 Backhoe		Diesel	83	8							
1	1 - Ditch Witch RT 55 Trencher		Diesel	60	8							
2	2 - Pickups		Gas	230	6							
ACP Paving Crew		22						Jun-Dec	Jan-Feb/Apr-Jul		Dec	Jan
1	1 - Barber-Greene BG260C Paver		Diesel	174	8							
2	2 - CAT CB 634D Rollers		Diesel	145	8							
1	1 - CAT PS 300 B Rubber Tire		Diesel	99	8							
1	1 - CAT IT 14G Loader		Diesel	90	8							
1	1 - Pickup		Gas	230	8							
1	1 - Flat Bed Truck		Diesel	200	2							
13	13 - Tri-axle Dump Trucks		Diesel	350	8							
Striping Crew		3						Aug-Sep	Jan-Feb/May-Jul			
1	1 - Paint Truck		Diesel	175	8							
1	1 - Flat Bed Truck		Diesel	200	6							
3	3 - Parking Lot Paint Machines		Gas	5	8							
1	1 - Pickup		Gas	230	4							
Drainage Crew		8						Jul-Aug	Apr/Jun			
1	1 - CAT 330C L Excavator		Diesel	247	8							
1	1 - CAT 966 Loader		Diesel	235	8							
1	1 - CAT CS 531D Compactor		Diesel	145	8							
1	1 - Flat Bed Truck		Diesel	200	4							
1	1 - Pickup		Gas	230	6							
2	2 - Tri-axle Dump Trucks (On site)		Diesel	350	8							

Construction Activity Crew		Total Persons on Crew	HP per Ea.		Max. Daily Hrs.	Schedule				
No. of Units	Equipment		Fuel Type			2014	2015	2016	2017	2018
Clear and Grub Crew		10				Jan				
1	1-Pickup		Gas	230	6					
1	1-CAT 973 Track Loader		Diesel	350	8					
1	Water Truck		Diesel	230	8					
3	3 - Tri-axle Dump Trucks (On Site)		Diesel	350	8					
1	1-Hand Tools		Gas	170	8					
Structural Steel Crew		11				Sep-Oct			Jan-Aug	
1	1-Pickup		Gas	230	6					
1	1-Manitowoc 11000 Crane		Diesel	332	8					
1	1-Gradall 544D Hi Lift		Diesel	125	8					
2	2-JLG 460SJ Work Platform		Diesel	50	8					
1	1-Hand Tools		Gas	170	8					
Interior Rough Crew		15				Nov-Dec			Sep-Nov	
2	2-Pickup		Gas	230	6					
4	4-JLG 460SJ Work Platform		Diesel	50	8					
Interior Concrete Flooring		20					Feb-Mar			
1	1-Pickup		Gas	230	6					
1	Putzmeister Concrete Pump		Diesel	350	8					
1	8-Concrete Mixers		Diesel	350	8					
1	1-Hand Tools		Gas	170	8					
Building Systems Crew		14				Nov-Dec*	Jan-Apr		Sep-Dec	Jan-Feb
1	1-Pickup		Gas	230	6					
1	1-Gradall 544D Hi Lift		Diesel	125	8					
3	3-JLG 460SJ Work Platform		Diesel	50	8					
Interior Finishes Crew		15					Mar-Jul		Dec	Jan-Feb
2	2-Pickup		Gas	230	6					
3	3-JLG 460SJ Work Platform		Diesel	50	8					
Installation Crew		8					May-Jul		Sep-Dec	Jan-Feb
2	2-Pickup		Gas	230	6					
3	3-Gradall 544D Hi Lift		Diesel	125	8					
Lighting - Night Shift						Jul-Dec	Jan/May-Jul			
12	12 - Light Plants		Diesel	15	8					
LAWA/CM Staff		10				Jan-Dec	Jan-Jul	Oct-Dec	Jan-Dec	Jan-Mar
4	4 - Pickups for LAWA/CM		Gas	175	4					
6	6 - Pickups for Inspectors		Gas	175	8					

Source: CDM Smith, 2013; PCR Services Corporation, 2013.

Notes:

* Equipment numbers were doubled for this activity to account for the potential overlapping of two crews during a worst-case day during all or a portion of the months.

† In addition to the equipment listed, additional emissions were calculated for on-road/on-site batch plant trucks transporting material from the batch plant to on-site areas. Refer to the Batch Plant, On-Road/On-Site emissions calculations provided in the following pages.

‡ In addition to the equipment listed, additional emissions were calculated for on-road/off-site export haul trucks transporting material from the site to off-site areas. Refer to the Haul Truck On-Road/Off-Site emissions calculations provided in the following pages.

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – Construction Emissions Summary (Maximum Daily & Annual)

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Maximum Regional On-Site and Off-Site Construction Emissions for Year 1 (pounds per day)

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2014*												
Q1				Q2			Q3			Q4		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Construction On-Site - Diesel Equipment ²												
VOC	5.40	9.07	7.58	7.95	10.80	27.24	41.07	39.11	25.53	28.83	26.84	
NOx	104.70	167.67	138.95	146.01	195.12	415.86	425.05	373.80	369.69	379.68	312.63	
CO	120.76	192.15	159.96	167.88	224.38	462.78	473.54	411.28	406.66	419.71	343.30	
SO2	0.22	0.35	0.29	0.31	0.41	0.85	0.87	0.75	0.75	0.75	0.61	
Fugitive PM10	15.31	10.05	10.05	10.19	10.19	12.20	12.20	12.20	12.20	12.20	9.53	
Exhaust PM10 ¹	0.79	1.25	1.03	1.09	1.71	3.79	3.87	3.67	3.64	4.58	4.55	
PM10 Total	16.11	11.29	11.08	11.27	11.89	15.99	16.07	15.87	15.84	16.78	14.08	
Fugitive PM2.5	7.88	5.23	5.23	5.25	5.25	5.48	5.48	5.48	5.48	5.48	4.15	
Exhaust PM2.5	0.76	1.20	0.99	1.04	1.63	3.63	3.70	3.51	3.48	4.38	4.36	
PM2.5 Total	8.64	6.44	6.23	6.30	6.88	9.11	9.17	8.99	8.96	9.86	8.51	
Construction On-Site - Gas Equipment ²												
VOC	0.72	0.70	0.65	0.67	0.78	1.15	1.35	1.09	1.00	1.15	1.13	
NOx	2.22	2.15	2.02	2.09	2.42	3.57	4.17	3.37	3.10	3.57	3.50	
CO	8.07	7.82	7.34	7.58	8.80	12.96	15.16	12.23	11.25	12.96	12.71	
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
Fugitive PM10	0.12	0.12	0.11	0.11	0.13	0.19	0.23	0.18	0.17	0.19	0.19	
Exhaust PM10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	
PM10 Total	0.12	0.12	0.11	0.12	0.13	0.20	0.23	0.19	0.17	0.20	0.19	
Fugitive PM2.5	0.03	0.03	0.03	0.03	0.03	0.05	0.06	0.05	0.04	0.05	0.05	
Exhaust PM2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PM2.5 Total	0.03	0.03	0.03	0.03	0.04	0.06	0.06	0.05	0.05	0.06	0.05	

Estimated Construction Emissions with Project Design Features (Pounds per Day) - 2014*												
Q1				Q2				Q3				Q4
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Construction Off-Site												
VOC	2.48	9.34	9.12	9.45	9.45	3.86	9.00	9.44	8.34	8.17	9.39	8.83
NOx	0.85	163.97	163.91	164.00	164.00	1.21	6.90	7.02	6.73	6.69	7.00	6.86
CO	7.24	43.19	42.55	43.51	43.51	11.22	28.28	29.55	26.37	25.89	29.39	27.80
SO2	0.01	0.44	0.44	0.44	0.44	0.02	0.05	0.05	0.05	0.05	0.05	0.05
Fugitive PM10	1.00	11.01	10.92	11.06	11.06	1.56	3.53	3.71	3.26	3.19	3.68	3.46
Exhaust PM10	0.01	0.28	0.28	0.28	0.28	0.02	0.13	0.13	0.12	0.12	0.13	0.12
PM10 Total	1.01	11.28	11.19	11.33	11.33	1.57	3.65	3.83	3.38	3.31	3.81	3.58
Fugitive PM2.5	0.26	3.01	2.99	3.02	3.02	0.41	0.94	0.99	0.87	0.85	0.98	0.92
Exhaust PM2.5	0.01	0.26	0.26	0.26	0.26	0.02	0.12	0.12	0.11	0.11	0.12	0.11
PM2.5 Total	0.28	3.26	3.24	3.27	3.27	0.43	1.06	1.10	0.98	0.96	1.10	1.04
Total On-Site and Off-Site ³												
VOC	8.60	19.11	17.36	18.08	18.08	15.45	37.39	51.86	48.54	34.70	39.37	36.81
NOx	107.78	333.79	304.88	312.10	312.10	198.75	426.33	436.24	383.90	379.47	390.25	322.99
CO	136.08	243.16	209.85	218.96	218.96	244.41	504.02	518.25	449.87	443.80	462.06	383.82
SO2	0.24	0.79	0.73	0.75	0.75	0.43	0.90	0.92	0.81	0.80	0.81	0.66
Fugitive PM10	16.43	21.17	21.08	21.36	21.36	11.87	15.92	16.13	15.64	15.56	16.08	13.18
Exhaust PM10 ¹	0.81	1.53	1.31	1.37	1.37	1.73	3.92	4.00	3.79	3.76	4.71	4.68
PM10 Total	17.24	22.71	22.39	22.73	22.73	13.60	19.84	20.13	19.44	19.32	20.79	17.86
Fugitive PM2.5	8.17	8.28	8.25	8.30	8.30	5.70	6.47	6.52	6.39	6.37	6.51	5.12
Exhaust PM2.5	0.78	1.46	1.25	1.30	1.30	1.65	3.75	3.82	3.63	3.59	4.50	4.48
PM2.5 Total	8.95	9.73	9.50	9.60	9.60	7.35	10.22	10.34	10.02	9.97	11.01	9.60

Maximum by Quarter	Estimated Construction Emissions with Project Design Features (Pounds per Day) - 2014*											
	Qtr. 1			Qtr. 2			Qtr. 3			Qtr. 4		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
VOC	9.77	9.34	19.11	8.62	9.45	18.08	42.42	9.44	51.86	29.99	9.39	39.37
NOx	169.82	163.97	333.79	148.10	164.00	312.10	429.23	7.02	436.24	383.25	7.00	390.25
CO	199.97	43.19	243.16	175.46	43.51	244.41	488.70	29.55	518.25	432.67	29.39	462.06
SO2	0.35	0.44	0.79	0.31	0.44	0.75	0.87	0.05	0.92	0.76	0.05	0.81
Fugitive PM10	10.16	11.01	21.17	10.30	11.06	21.36	12.43	3.71	16.13	12.40	3.68	16.08
Exhaust PM10 ¹	1.25	0.28	1.53	1.09	0.28	1.73	3.87	0.13	4.00	4.59	0.13	4.71
PM10 Total	11.41	11.29	22.71	11.39	11.34	23.08	16.30	3.83	20.13	16.98	3.81	20.79
Fugitive PM2.5	5.27	3.01	8.28	5.28	3.02	8.30	5.54	0.99	6.52	5.53	0.98	6.51
Exhaust PM2.5	1.20	0.26	1.46	1.04	0.26	1.65	3.70	0.12	3.82	4.39	0.12	4.50
PM2.5 Total	6.47	3.26	9.73	6.33	3.27	9.60	9.24	1.10	10.34	9.92	1.10	11.01
Tons per Quarter	Estimated Construction Emissions with Project Design Features (Tons per Quarter) - 2014*											
	Qtr. 1			Qtr. 2			Qtr. 3			Qtr. 4		
	23	20	21	22	22	21	23	21	22	23	20	23
Work days in the month												
VOC		0.47			0.56			1.51			1.22	
NOx		7.78			8.95			13.71			11.98	
CO		6.20			7.38			16.19			14.14	
SO2		0.02			0.02			0.03			0.02	
Fugitive PM10		0.62			0.59			0.52			0.49	
Exhaust PM10 ¹		0.04			0.05			0.13			0.14	
PM10 Total		0.66			0.64			0.65			0.64	
Fugitive PM2.5		0.26			0.24			0.21			0.20	
Exhaust PM2.5		0.04			0.05			0.12			0.14	
PM2.5 Total		0.30			0.29			0.34			0.34	

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

- Due to an apparent calculation error in the CalEEMod (Version 2013.2) software, the "mitigated" PM10 off-road diesel exhaust emissions are erroneously shown to be less than the "mitigated" PM2.5 off-road diesel exhaust emissions for Year 2014. For dispersion modeling purposes, the "mitigated" PM10 off-road exhaust emissions were adjusted according to the following equation: PM10 = PM2.5 / 0.957 in accordance with the California Air Resources Board's, "California Emission Inventory and Reporting System (CEIDARS) - Particulate Matter (PM) Specification Profiles." Profile ID 6099 (off-road diesel vehicle exhaust) denotes that the normalized fraction of PM10 that is PM2.5 is approximately 0.957. (<http://www.arb.ca.gov/ei/speciate/dnldoptvw10001.php>)

- Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).
- Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Maximum Regional On-Site and Off-Site Construction Emissions for Year 1 (tons per year)

Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2014											
Year	Source	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10 ¹	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2014	On-Site Diesel	2.6	34.6	38.7	0.1	1.5	0.3	1.8	0.7	0.3	1.0
2014	On-Site Gas	0.1	0.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	Off-Site	0.9	7.1	3.7	0.0	0.7	0.0	0.7	0.2	0.0	0.2
2014	Total	3.7	42.1	43.8	0.1	2.2	0.4	2.5	0.9	0.3	1.3

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

1. Due to an apparent calculation error in the CalEEMod (Version 2013.2) software, the "mitigated" PM₁₀ off-road diesel exhaust emissions are erroneously shown to be less than the "mitigated" PM_{2.5} off-road diesel exhaust emissions for Year 2014. For dispersion modeling purposes, the "mitigated" PM₁₀ off-road exhaust emissions were adjusted according to the following equation: $PM_{10} = PM_{2.5} / 0.957$ in accordance with the California Air Resources Board's, "California Emission Inventory and Reporting System (CEIDARS) - Particulate Matter (PM) Speciation Profiles." Profile ID 6099 (off-road diesel vehicle exhaust) denotes that the normalized fraction of PM₁₀ that is PM_{2.5} is approximately 0.957. (<http://www.arb.ca.gov/ei/speciate/dnldoptw10001.php>)

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Maximum Regional On-Site and Off-Site Construction Emissions for Year 2 (pounds per day)

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2015*												
Q1				Q2			Q3			Q4		
Jan	Feb	Mar		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction On-Site - Diesel Equipment ¹												
VOC	32.88	31.82	7.98	10.23	20.73	21.49	20.78	-	-	-	-	-
NOX	203.98	203.12	80.55	117.72	75.75	88.40	76.62	-	-	-	-	-
CO	333.00	347.01	145.23	218.62	125.74	150.62	127.49	-	-	-	-	-
SO2	0.60	0.63	0.24	0.37	0.21	0.26	0.22	-	-	-	-	-
Fugitive PM10	10.06	11.23	2.35	3.52	2.35	3.52	3.52	-	-	-	-	-
Exhaust PM10	2.65	2.07	1.60	1.81	1.58	1.65	1.58	-	-	-	-	-
PM10 Total	12.71	13.30	3.94	5.34	3.93	5.18	5.11	-	-	-	-	-
Fugitive PM2.5	4.21	4.85	1.29	1.94	1.29	1.94	1.94	-	-	-	-	-
Exhaust PM2.5	2.55	1.96	1.48	1.70	1.54	1.61	1.55	-	-	-	-	-
PM2.5 Total	6.75	6.81	2.78	3.64	2.83	3.55	3.48	-	-	-	-	-
Construction On-Site - Gas Equipment ¹												
VOC	1.08	1.14	0.88	0.90	0.84	0.90	0.88	-	-	-	-	-
NOX	3.53	3.73	2.88	2.94	2.75	2.94	2.88	-	-	-	-	-
CO	12.06	12.73	9.82	10.05	9.38	10.05	9.82	-	-	-	-	-
SO2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
Fugitive PM10	0.20	0.21	0.16	0.16	0.15	0.16	0.16	-	-	-	-	-
Exhaust PM10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
PM10 Total	0.20	0.21	0.16	0.17	0.16	0.17	0.16	-	-	-	-	-
Fugitive PM2.5	0.05	0.06	0.04	0.04	0.04	0.04	0.04	-	-	-	-	-
Exhaust PM2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
PM2.5 Total	0.06	0.06	0.05	0.05	0.04	0.05	0.05	-	-	-	-	-

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2015*												
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction Off-Site												
VOC	6.38	7.33	4.53	4.74	3.06	3.49	3.15	-	-	-	-	-
NOx	5.62	5.88	1.40	1.46	1.01	1.12	1.03	-	-	-	-	-
CO	23.36	26.51	15.15	15.87	10.27	11.70	10.55	-	-	-	-	-
SO2	0.05	0.05	0.03	0.03	0.02	0.02	0.02	-	-	-	-	-
Fugitive PM10	3.19	3.68	2.34	2.45	1.58	1.80	1.62	-	-	-	-	-
Exhaust PM10	0.10	0.10	0.02	0.02	0.02	0.02	0.02	-	-	-	-	-
PM10 Total	3.29	3.78	2.36	2.47	1.59	1.82	1.64	-	-	-	-	-
Fugitive PM2.5	0.85	0.98	0.62	0.65	0.42	0.48	0.43	-	-	-	-	-
Exhaust PM2.5	0.09	0.09	0.02	0.02	0.02	0.02	0.02	-	-	-	-	-
PM2.5 Total	0.94	1.08	0.64	0.67	0.43	0.50	0.45	-	-	-	-	-
Total On-Site and Off-Site ²												
VOC	40.35	40.30	13.39	15.87	24.63	25.88	24.81	-	-	-	-	-
NOx	213.14	212.73	84.83	122.12	79.50	92.46	80.52	-	-	-	-	-
CO	368.42	386.25	170.21	244.54	145.38	172.37	147.87	-	-	-	-	-
SO2	0.66	0.69	0.27	0.41	0.24	0.29	0.24	-	-	-	-	-
Fugitive PM10	13.44	15.12	4.85	6.14	4.08	5.49	5.31	-	-	-	-	-
Exhaust PM10	2.76	2.17	1.62	1.84	1.60	1.67	1.61	-	-	-	-	-
PM10 Total	16.20	17.29	6.47	7.98	5.68	7.16	6.91	-	-	-	-	-
Fugitive PM2.5	5.11	5.89	1.95	2.63	1.75	2.46	2.41	-	-	-	-	-
Exhaust PM2.5	2.64	2.06	1.51	1.73	1.56	1.63	1.56	-	-	-	-	-
PM2.5 Total	7.75	7.95	3.46	4.36	3.31	4.09	3.97	-	-	-	-	-

Estimated Construction Emissions with Project Design Features (Pounds per Day) - 2015*									
Maximum by Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
VOC	34	6	40	22	3	26	22	3	25
NOx	208	6	213	121	1	122	79	1	81
CO	360	27	386	229	16	245	137	11	148
SO2	1	0	1	0	0	0	0	0	0
Fugitive PM10	11	4	15	4	2	6	4	2	5
Exhaust PM10	2	0	3	2	0	2	2	0	2
PM10 Total	14	4	17	6	2	8	5	2	7
Fugitive PM2.5	5	1	6	2	1	3	2	0	2
Exhaust PM2.5	2	0	3	2	0	2	2	0	2
PM2.5 Total	7	1	8	4	1	4	4	0	4
Estimated Construction Emissions with Project Design Features (Tons per Quarter) - 2015*									
Tons per Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
<i>Work days in the month</i>	22	20	22	22	21	22	23	21	22
VOC		0.99			0.72			0.29	
NOx		5.40			3.20			0.93	
CO		9.79			6.11			1.70	
SO2		0.02			0.01			0.00	
Fugitive PM10		0.35			0.17			0.06	
Exhaust PM10		0.07			0.06			0.02	
PM10 Total		0.42			0.23			0.08	
Fugitive PM2.5		0.14			0.07			0.03	
Exhaust PM2.5		0.07			0.05			0.02	
PM2.5 Total		0.20			0.13			0.05	

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

1. Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).
2. Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

LAX/LAWA West Aircraft Maintenance Area Project

Draft EIR Air Quality Analysis

AERMOD Dispersion Model

Maximum Regional On-Site and Off-Site Construction Emissions for Year 2 (tons per year)

Year	Source	Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2015									
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2015	On-Site Diesel	1.578	9.137	15.600	0.027	0.395	0.140	0.533	0.189	0.134	0.320
2015	On-Site Gas	0.073	0.238	0.813	0.000	0.013	0.000	0.014	0.004	0.000	0.004
2015	Off-Site	0.367	0.203	1.178	0.002	0.176	0.003	0.180	0.047	0.003	0.050
2015	Total	2.018	9.579	17.592	0.030	0.585	0.144	0.726	0.240	0.138	0.374

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2016*												
Q1				Q2			Q3			Q4		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Construction On-Site - Diesel Equipment												
VOC	-	-	-	-	-	-	-	-	2.02	1.90	1.90	
NOx	-	-	-	-	-	-	-	-	34.83	33.01	33.01	
CO	-	-	-	-	-	-	-	-	66.13	62.47	62.47	
SO2	-	-	-	-	-	-	-	-	0.12	0.11	0.11	
Fugitive PM10	-	-	-	-	-	-	-	-	9.39	7.05	7.05	
Exhaust PM10	-	-	-	-	-	-	-	-	0.26	0.25	0.25	
PM10 Total	-	-	-	-	-	-	-	-	9.66	7.30	7.30	
Fugitive PM2.5	-	-	-	-	-	-	-	-	5.16	3.87	3.87	
Exhaust PM2.5	-	-	-	-	-	-	-	-	0.26	0.25	0.25	
PM2.5 Total	-	-	-	-	-	-	-	-	5.43	4.13	4.13	
Construction On-Site - Gas Equipment												
VOC	-	-	-	-	-	-	-	-	0.60	0.58	0.58	
NOx	-	-	-	-	-	-	-	-	2.04	1.97	1.97	
CO	-	-	-	-	-	-	-	-	6.57	6.36	6.36	
SO2	-	-	-	-	-	-	-	-	0.00	0.00	0.00	
Fugitive PM10	-	-	-	-	-	-	-	-	0.12	0.11	0.11	
Exhaust PM10	-	-	-	-	-	-	-	-	0.00	0.00	0.00	
PM10 Total	-	-	-	-	-	-	-	-	0.12	0.11	0.11	
Fugitive PM2.5	-	-	-	-	-	-	-	-	0.03	0.03	0.03	
Exhaust PM2.5	-	-	-	-	-	-	-	-	0.00	0.00	0.00	
PM2.5 Total	-	-	-	-	-	-	-	-	0.03	0.03	0.03	

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2016*												
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction Off-Site												
VOC	-	-	-	-	-	-	-	-	-	1.90	1.81	1.81
NOx	-	-	-	-	-	-	-	-	-	0.62	0.60	0.60
CO	-	-	-	-	-	-	-	-	-	5.27	5.01	5.01
SO2	-	-	-	-	-	-	-	-	-	0.01	0.01	0.01
Fugitive PM10	-	-	-	-	-	-	-	-	-	0.88	0.84	0.84
Exhaust PM10	-	-	-	-	-	-	-	-	-	0.01	0.01	0.01
PM10 Total	-	-	-	-	-	-	-	-	-	0.89	0.85	0.85
Fugitive PM2.5	-	-	-	-	-	-	-	-	-	0.23	0.22	0.22
Exhaust PM2.5	-	-	-	-	-	-	-	-	-	0.01	0.01	0.01
PM2.5 Total	-	-	-	-	-	-	-	-	-	0.24	0.23	0.23
Total On-Site and Off-Site												
VOC	-	-	-	-	-	-	-	-	-	4.51	4.29	4.29
NOx	-	-	-	-	-	-	-	-	-	37.49	35.58	35.58
CO	-	-	-	-	-	-	-	-	-	77.97	73.84	73.84
SO2	-	-	-	-	-	-	-	-	-	0.13	0.12	0.12
Fugitive PM10	-	-	-	-	-	-	-	-	-	10.40	8.00	8.00
Exhaust PM10	-	-	-	-	-	-	-	-	-	0.28	0.26	0.26
PM10 Total	-	-	-	-	-	-	-	-	-	10.67	8.26	8.26
Fugitive PM2.5	-	-	-	-	-	-	-	-	-	5.43	4.13	4.13
Exhaust PM2.5	-	-	-	-	-	-	-	-	-	0.28	0.26	0.26
PM2.5 Total	-	-	-	-	-	-	-	-	-	5.71	4.39	4.39

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2016*									
Maximum by Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
VOC	-	-	-	-	-	-	-	3	2
NOx	-	-	-	-	-	-	-	37	1
CO	-	-	-	-	-	-	-	73	5
SO2	-	-	-	-	-	-	-	0	0
Fugitive PM10	-	-	-	-	-	-	-	10	1
Exhaust PM10	-	-	-	-	-	-	-	0	0
PM10 Total	-	-	-	-	-	-	-	10	1
Fugitive PM2.5	-	-	-	-	-	-	-	5	0
Exhaust PM2.5	-	-	-	-	-	-	-	0	0
PM2.5 Total	-	-	-	-	-	-	-	5	0
Estimated Construction Emissions with Project Design Features (Tons per Quarter) - 2016*									
Tons per Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	21	21	23	21	22	22	21	23	22
Work days in the month	21	21	23	21	22	22	21	23	22
VOC	-	-	-	-	-	-	-	-	0.14
NOx	-	-	-	-	-	-	-	-	1.18
CO	-	-	-	-	-	-	-	-	2.44
SO2	-	-	-	-	-	-	-	-	0.00
Fugitive PM10	-	-	-	-	-	-	-	-	0.29
Exhaust PM10	-	-	-	-	-	-	-	-	0.01
PM10 Total	-	-	-	-	-	-	-	-	0.29
Fugitive PM2.5	-	-	-	-	-	-	-	-	0.15
Exhaust PM2.5	-	-	-	-	-	-	-	-	0.01
PM2.5 Total	-	-	-	-	-	-	-	-	0.16

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

2. Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).
3. Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

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	Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2017*											
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction On-Site - Diesel Equipment	VOC NOx CO SO2 Fugitive PM10 Exhaust PM10 PM10 Total Fugitive PM2.5 Exhaust PM2.5 PM2.5 Total	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	2.55 18.03 27.83 0.04 2.35 0.67 3.02 1.29 0.64 1.93	4.39 23.02 34.22 0.04 2.35 1.19 3.54 1.29 1.10 2.39	4.39 23.02 34.22 0.04 2.35 1.19 3.54 1.29 1.10 2.39	4.39 23.02 34.22 0.04 2.35 1.19 3.54 1.29 1.10 2.39
Construction On-Site - Gas Equipment	VOC NOx CO SO2 Fugitive PM10 Exhaust PM10 PM10 Total Fugitive PM2.5 Exhaust PM2.5 PM2.5 Total	0.53 1.91 5.83 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.53 1.91 5.83 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.53 1.91 5.83 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.48 1.73 5.27 0.00 0.10 0.00 0.10 0.03 0.00 0.03	0.48 1.73 5.27 0.00 0.10 0.00 0.10 0.03 0.00 0.03	0.48 1.73 5.27 0.00 0.10 0.00 0.10 0.03 0.00 0.03	0.48 1.73 5.27 0.00 0.10 0.00 0.10 0.03 0.00 0.03	0.52 1.85 5.65 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.52 1.85 5.65 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.52 1.85 5.65 0.00 0.11 0.00 0.11 0.03 0.00 0.03	0.52 1.85 5.65 0.00 0.11 0.00 0.11 0.03 0.00 0.03

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2017*												
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction Off-Site												
VOC	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	2.44	2.44	2.44	3.60
NOx	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.72	0.72	0.72	0.99
CO	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13	6.54	6.54	6.54	9.59
SO2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Fugitive PM10	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	1.22	1.22	1.22	1.80
Exhaust PM10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
PM10 Total	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	1.23	1.23	1.23	1.82
Fugitive PM2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.32	0.32	0.32	0.48
Exhaust PM2.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
PM2.5 Total	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.34	0.34	0.34	0.49
Total On-Site and Off-Site												
VOC	4.99	4.99	4.99	4.99	4.94	4.94	4.94	4.94	7.34	7.34	7.34	8.59
NOx	20.54	20.54	20.54	20.54	20.35	20.35	20.35	20.35	25.59	25.59	25.59	37.33
CO	38.79	38.79	38.79	38.79	38.22	38.22	38.22	38.22	46.40	46.40	46.40	69.11
SO2	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.09
Fugitive PM10	3.41	3.41	3.41	3.41	3.40	3.40	3.40	3.40	3.68	3.68	3.68	4.27
Exhaust PM10	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	1.20	1.20	1.20	1.22
PM10 Total	4.10	4.10	4.10	4.10	4.08	4.08	4.08	4.08	4.88	4.88	4.88	5.49
Fugitive PM2.5	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.64	1.64	1.64	1.80
Exhaust PM2.5	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	1.11	1.11	1.11	1.12
PM2.5 Total	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.76	2.76	2.76	2.92

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2017*									
Maximum by Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
VOC	3	2	5	3	2	5	5	2	7
NOx	20	1	21	20	1	21	25	1	26
CO	34	5	39	34	5	39	40	7	46
SO2	0	0	0	0	0	0	0	0	0
Fugitive PM10	2	1	3	2	1	3	2	1	4
Exhaust PM10	1	0	1	1	0	1	1	0	1
PM10 Total	3	1	4	3	1	4	4	1	5
Fugitive PM2.5	1	0	2	1	0	2	1	0	2
Exhaust PM2.5	1	0	1	1	0	1	1	0	1
PM2.5 Total	2	0	2	2	0	2	2	0	3

Estimated Construction Emissions with Project Design Features (Tons per Quarter) - 2017*									
Tons per Quarter	Qtr. 1			Qtr. 2			Qtr. 3		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
Work days in the month	22	20	23	20	23	22	21	23	21
VOC		0.16			0.16			0.19	
NOx		0.67			0.66			0.72	
CO		1.26			1.25			1.33	
SO2		0.00			0.00			0.00	
Fugitive PM10		0.11			0.11			0.11	
Exhaust PM10		0.02			0.02			0.03	
PM10 Total		0.13			0.13			0.14	
Fugitive PM2.5		0.05			0.05			0.05	
Exhaust PM2.5		0.02			0.02			0.03	
PM2.5 Total		0.07			0.07			0.08	

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

2. Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).
3. Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

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Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2018*												

Estimated Maximum Daily Construction Emissions with Project Design Features (Pounds per Day) - 2018*												
Maximum by Quarter	Qtr. 1			Qtr. 2			Qtr. 3			Qtr. 4		
	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total	On-Site	Off-Site	Total
VOC	5	3	8	-	-	-	-	-	-	-	-	-
NOx	36	1	36	-	-	-	-	-	-	-	-	-
CO	58	9	66	-	-	-	-	-	-	-	-	-
SO2	0	0	0	-	-	-	-	-	-	-	-	-
Fugitive PM10	2	2	4	-	-	-	-	-	-	-	-	-
Exhaust PM10	1	0	1	-	-	-	-	-	-	-	-	-
PM10 Total	4	2	5	-	-	-	-	-	-	-	-	-
Fugitive PM2.5	1	0	2	-	-	-	-	-	-	-	-	-
Exhaust PM2.5	1	0	1	-	-	-	-	-	-	-	-	-
PM2.5 Total	2	0	3	-	-	-	-	-	-	-	-	-
Estimated Construction Emissions with Project Design Features (Tons per Quarter) - 2018*												
Tons per Quarter	Qtr. 1			Qtr. 2			Qtr. 3			Qtr. 4		
	23	20	22	21	23	21	22	23	20	23	22	21
Work days in the month												
VOC		0.17		-	-	-	-	-	-	-	-	-
NOx		0.75		-	-	-	-	-	-	-	-	-
CO		1.40		-	-	-	-	-	-	-	-	-
SO2		0.00		-	-	-	-	-	-	-	-	-
Fugitive PM10		0.13		-	-	-	-	-	-	-	-	-
Exhaust PM10		0.02		-	-	-	-	-	-	-	-	-
PM10 Total		0.15		-	-	-	-	-	-	-	-	-
Fugitive PM2.5		0.06		-	-	-	-	-	-	-	-	-
Exhaust PM2.5		0.02		-	-	-	-	-	-	-	-	-
PM2.5 Total		0.08		-	-	-	-	-	-	-	-	-

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

2.

Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions), PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).

3.

Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

* Totals may not add up exactly due to rounding in the modeling calculations and/or use of the higher of the winter or summer calculations.

2. Outlined numbers indicates the month with the maximum on-site emissions (the sum of on-site diesel and gas equipment emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of on-site fugitive dust and exhaust emissions).
3. Shaded and outlined numbers indicates the month with the maximum total emissions (the sum of on-site and off-site emissions). PM10 and PM2.5 are based on the total particulate emissions (the sum of fugitive dust and exhaust emissions).

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Maximum Regional On-Site and Off-Site Construction Emissions for Years 3-5 (tons per year)

Year	Source	Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2016-2018									
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	On-Site Diesel	0.063	1.092	2.068	0.004	0.635	0.008	0.644	0.349	0.008	0.358
2016	On-Site Gas	0.019	0.066	0.212	0.000	0.004	0.000	0.004	0.001	0.000	0.001
2016	Off-Site	0.052	0.020	0.158	0.000	0.027	0.000	0.028	0.007	0.000	0.008
2017	On-Site Diesel	0.283	2.160	3.396	0.005	0.458	0.071	0.529	0.252	0.067	0.319
2017	On-Site Gas	0.068	0.244	0.743	0.000	0.014	0.000	0.015	0.004	0.000	0.004
2017	Off-Site	0.200	0.075	0.585	0.001	0.112	0.001	0.113	0.030	0.001	0.031
2018	On-Site Diesel	0.086	0.674	1.058	0.001	0.471	0.023	0.494	0.259	0.021	0.280
2018	On-Site Gas	0.015	0.055	0.159	0.000	0.003	0.000	0.003	0.001	0.000	0.001
2018	Off-Site	0.061	0.021	0.174	0.000	0.037	0.000	0.037	0.010	0.000	0.010

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

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Maximum Regional On-Site and Off-Site Construction Emissions for Year 1 (tons per year)

Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2014											
Year	Source	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10 ¹	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2014	On-Site Diesel	2.6	34.6	38.7	0.1	1.5	0.3	1.8	0.7	0.3	1.0
2014	On-Site Gas	0.1	0.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	Off-Site	0.9	7.1	3.7	0.0	0.7	0.0	0.7	0.2	0.0	0.2
2014	Total	3.7	42.1	43.8	0.1	2.2	0.4	2.5	0.9	0.3	1.3

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

1. Due to an apparent calculation error in the CalEEMod (Version 2013.2) software, the "mitigated" PM₁₀ off-road diesel exhaust emissions are erroneously shown to be less than the "mitigated" PM_{2.5} off-road diesel exhaust emissions for Year 2014. For dispersion modeling purposes, the "mitigated" PM₁₀ off-road exhaust emissions were adjusted according to the following equation: $PM_{10} = PM_{2.5} / 0.957$ in accordance with the California Air Resources Board's, "California Emission Inventory and Reporting System (CEIDARS) - Particulate Matter (PM) Speciation Profiles." Profile ID 6099 (off-road diesel vehicle exhaust) denotes that the normalized fraction of PM₁₀ that is PM_{2.5} is approximately 0.957. (<http://www.arb.ca.gov/ei/speciate/dnldoptwv10001.php>)

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Maximum Regional On-Site and Off-Site Construction Emissions for Year 2 (tons per year)

		Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2015									
Year	Source	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2015	On-Site Diesel	1.578	9.137	15.600	0.027	0.395	0.140	0.533	0.189	0.134	0.320
2015	On-Site Gas	0.073	0.238	0.813	0.000	0.013	0.000	0.014	0.004	0.000	0.004
2015	Off-Site	0.367	0.203	1.178	0.002	0.176	0.003	0.180	0.047	0.003	0.050
2015	Total	2.018	9.579	17.592	0.030	0.585	0.144	0.726	0.240	0.138	0.374

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

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Maximum Regional On-Site and Off-Site Construction Emissions for Years 3-5 (tons per year)

Year	Source	Estimated Maximum Annual Construction Emissions with Project Design Features (Tons per Year) - 2016-2018									
		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	On-Site Diesel	0.063	1.092	2.068	0.004	0.635	0.008	0.644	0.349	0.008	0.358
2016	On-Site Gas	0.019	0.066	0.212	0.000	0.004	0.000	0.004	0.001	0.000	0.001
2016	Off-Site	0.052	0.020	0.158	0.000	0.027	0.000	0.028	0.007	0.000	0.008
2017	On-Site Diesel	0.283	2.160	3.396	0.005	0.458	0.071	0.529	0.252	0.067	0.319
2017	On-Site Gas	0.068	0.244	0.743	0.000	0.014	0.000	0.015	0.004	0.000	0.004
2017	Off-Site	0.200	0.075	0.585	0.001	0.112	0.001	0.113	0.030	0.001	0.031
2018	On-Site Diesel	0.086	0.674	1.058	0.001	0.471	0.023	0.494	0.259	0.021	0.280
2018	On-Site Gas	0.015	0.055	0.159	0.000	0.003	0.000	0.003	0.001	0.000	0.001
2018	Off-Site	0.061	0.021	0.174	0.000	0.037	0.000	0.037	0.010	0.000	0.010

Source: California Emissions Estimator Model (CalEEMod, version 2013.2).

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – Export Haul Truck On-Road/Off-Site Emissions

Haul Truck Emissions: On-Road/Off-Site (Model Year 2007 or later)

**Number of Work Days
in 2014**
81

On-Road Haul Truck Running Emissions

Source	Vehicle Category	Region	Calendar Year	Model Year ¹	Running Speed	One-Way Trips per Day	Total Miles per Day	Criteria Pollutant Emission Factor (grams/mile)						Criteria Pollutant Emissions (pounds/day)					
								PM10			PM2.5			PM10			PM2.5		
								VOC	NOx	CO	SOx	Exh	VOC	NOx	CO	SOx	Exh	VOC	NOx
Year 2014 Emissions 16 CY Haul Trucks	T7 single construction	South Coast	2014	2007	Aggregated	456	11,400	0.249	6.374	1.299	0.017	0.070	0.064	6.25	160.20	32.64	0.42	1.76	1.62

Abbreviations:
Exh = Exhaust (i.e., fuel combustion emissions).

Notes:

1. EMFAC2011 Model run with 2007 model year, based on LAWA/LAX commitments to utilize temporary construction equipment meeting such standards. See "LAX Specific Plan Amendment Study (SPAS) Final EIR," MM-AQ (SPAS)-3.

Sources:

California Air Resources Board, "EMFAC Emissions Database," <http://www.arb.ca.gov/emfac/>. Accessed April 2013.

PCR Services Corporation, 2013.

On-Road Haul Truck Idling Emissions

Source	Vehicle Category	Queuing Stops per Day	Idling Minutes per Queuing Stop	Loadings per Day	Idling Minutes per Loading	Unloadings per Day	Criteria Pollutant Emission Factor (grams/hr)										Criteria Pollutant Emissions (pounds/day)					
																	VOC	NOx	CO	SOx	PM10	PM2.5
Year 2014 Emissions 16 CV Haul Trucks	T7 single construction	456	5	228	4	228	4	7.396	38.409	41.724	0.067	0.108	0.099	1.12	5.79	6.29	0.01	0.02	0.01	0.02	0.01	0.01

Abbreviations:

Exh = Exhaust (i.e., fuel combustion emissions).

Sources:

California Air Resources Board, "EMFAC Emissions Database," <http://www.arb.ca.gov/emfac/>. Accessed April 2013.

PCR Services Corporation, 2013.

On-Road Haul Truck Fugitive Dust Emissions (Paved Road Dust (RD), Tire Wear (TW), Break Wear (BW))

Source	Vehicle Category	Region	Calendar Year	Model Year	Running Speed	One-Way Trips per Day	Total Miles per Day	Criteria Pollutant Emission Factor (grams/mile)									Criteria Pollutant Emissions (pounds/day)																	
								PM10			PM2.5			RD ¹			PM10			PM2.5			RD			PM10			PM2.5			RD		
								RD ¹	TW	BW	RD ¹	TW	BW	RD ¹	TW	BW	RD	TW	BW	RD	TW	BW	RD	TW	BW	RD	TW	BW	RD	TW	BW			
Year 2014 Emissions 16 CY Haul Trucks	T7 single construction	South Coast	2014	2007	Aggregated	456	11,400	0.300	0.036	0.062	0.074	0.009	0.026	7.54	0.90	1.55	1.85	0.23	0.67															

Abbreviations:

RD = Road Dust; TW = Tire Wear; BW = Break Wear.

Note:

1. Calculated Separately from EMFAC2011. See "Road Dust Emission Factors" calculation page.

Sources:

SCAQMD, CalEEMod, Version 2011.1.1.

CARB, *Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document*. (1997).

USEPA. AP-42. Fifth Edition, Volume I, Chapter 13.2.1 - Paved Roads, (2011) and Chapter 13.2.2 - Unpaved Roads, (2006).

PCR Services Corporation, 2013.

Total On-Road Haul Truck Emissions

Source	Running Speed	Emission Controls (Exhaust Retrofits)		Criteria Pollutant Emissions (pounds/day)													
		NOx Percent Reduction ¹	PM2.5 Percent Reduction ²	PM10	SOx	CO	NOx	VOC	PM10 Exh	Dust	PM10 Total	PM2.5 Exh	Dust	PM2.5 Total			
Year 2014 Emissions 16 CY Haul Trucks	Aggregated	0%	85%					7.37	166.00	38.93	0.43	0.27	9.99	10.26	0.24	2.74	2.99

Notes:

1. CARB, "Diesel Certifications, Verifications and Related Links: Verification Procedure - Currently Verified," <http://www.arb.ca.gov/diesel/verdev/vt/cvt.htm>. Accessed April 2013.

No reductions in NOx emissions were assumed.

2. CABB. "Diesel Certifications, Verifications and Related Links: Verification Procedure - Currently Verified." <http://www.abt.ca.gov/diesel/verdev/vt/cvt.htm>. Accessed April 2013.

Level 3 verified diesel particulate matter filters reduce diesel PM (PM₁₀ and PM_{2.5}) by 85 percent.

3. Dust emissions include road dust (RD), tire wear (TW), and break wear (BW) emissions.

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – Batch Plant Truck On-Road/On-Site Emissions

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Concrete Truck Emissions: Batch Plant, On-Road/On-Site (Model Year 2007 or later)

Number of Work Days Year 2014: 132
Number of Work Days Year 2015: 42
Number of Work Days Year 2016: 65

On-Road Concrete Truck Running Emissions

Source	Vehicle Category	Region	Calendar Year	Model Year ¹	Running Speed	One-Way Trips per Day	Miles per One-Way Trip	Criteria Pollutant Emission Factor (grams/mile) ²						Criteria Pollutant Emissions (pounds/day)					
								VOC	NOx	CO	SOx	PM10	PM2.5	VOC	NOx	CO	SOx	PM10	PM2.5
Year 2014 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2014	2007	15	1000	0.5	0.992	12.178	2.412	0.017	0.056	0.051	1.09	13.42	2.66	0.02	0.06	0.06
Year 2015 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2015	2007	15	1000	0.5	1.032	12.334	2.509	0.017	0.058	0.054	1.14	13.60	2.77	0.02	0.06	0.06
Year 2016 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2016	2007	15	1000	0.5	1.070	12.486	2.602	0.017	0.060	0.055	1.18	13.76	2.87	0.02	0.07	0.06

Abbreviations:

Exh = Exhaust (i.e., fuel combustion emissions).

Notes:

1. EMFAC2011 Model run with 2007 model year, based on LAWA/LAX commitments to utilize temporary construction equipment meeting such standards. See "LAX Specific Plan Amendment Study (SPAS) Final EIR," MM-AQ (SPAS)-1
2. SOx emission factor based on EMFAC2011 model run with aggregated speeds.

Sources:

California Air Resources Board, "EMFAC Emissions Database," <http://www.arb.ca.gov/emfac/>. Accessed April 2013
PCR Services Corporation, 2013.

On-Road Concrete Truck Idling Emissions

Source	Vehicle Category	Queuing Stops per Day	Idling Minutes per Queuing Stop	Loadings per Day	Idling Minutes per Loading	Unloadings per Day	Idling Minutes per Unloading	Criteria Pollutant Emission Factor (grams/hr)						Criteria Pollutant Emissions (pounds/day)					
								VOC	NOx	CO	SOx	PM10	PM2.5	VOC	NOx	CO	SOx	PM10	PM2.5
Year 2014 Emissions 10 CY Ready Mix Trucks	T7 single construction	1000	5	500	10	500	10	7.396	38.409	41.724	0.067	0.108	0.099	4.08	21.17	23.00	0.04	0.06	0.05
Year 2015 Emissions 10 CY Ready Mix Trucks	T7 single construction	1000	5	500	10	500	10	7.396	38.409	41.724	0.067	0.108	0.099	4.08	21.17	23.00	0.04	0.06	0.05
Year 2016 Emissions 10 CY Ready Mix Trucks	T7 single construction	1000	5	500	10	500	10	7.396	38.409	41.724	0.067	0.108	0.099	4.08	21.17	23.00	0.04	0.06	0.05

Abbreviations:

Exh = Exhaust (i.e., fuel combustion emissions).

Sources:

California Air Resources Board, "EMFAC Emissions Database," <http://www.arb.ca.gov/emfac/>. Accessed April 2013
PCR Services Corporation, 2013.

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Concrete Truck Emissions: Batch Plant, On-Road/On-Site (Model Year 2007 or later)

Number of Work Days Year 2014: 132
Number of Work Days Year 2015: 42
Number of Work Days Year 2016: 65
On-Road Concrete Truck Fugitive Dust Emissions (Unpaved Road Dust (RD), Tire Wear (TW), Break Wear (BW))

Source	Vehicle Category	Region	Calendar Year	Model Year ¹	Running Speed	One-Way Trips per Day	Miles per One-Way Trip	Criteria Pollutant Emissions (grams/mile)						Criteria Pollutant Emissions (pounds/day)					
								PM10 RD ¹	PM10 TW	PM10 BW	PM2.5 RD ¹	PM2.5 TW	PM2.5 BW	PM10 RD	PM10 TW	PM10 BW	PM2.5 RD	PM2.5 TW	PM2.5 BW
Year 2014 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2014	2007	15	1000	0.5	2.026	0.036	0.062	0.203	0.009	0.026	2.23	0.04	0.07	0.22	0.01	0.03
Year 2015 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2015	2007	15	1000	0.5	2.026	0.036	0.062	0.203	0.009	0.026	2.23	0.04	0.07	0.22	0.01	0.03
Year 2016 Emissions 10 CY Ready Mix Trucks	T7 single construction	South Coast	2016	2007	15	1000	0.5	2.026	0.036	0.062	0.203	0.009	0.026	2.23	0.04	0.07	0.22	0.01	0.03

Abbreviations:

RD = Road Dust; TW = Tire Wear; BW = Break Wear.

Note:

1. Calculated separately from EMFAC2011. See "Road Dust Emission Factors" calculation page. Assumes unpaved road dust emissions are controlled with watering at least 3 times daily or equivalent control with non-toxic soil binders (61% reduction)

Sources:

SCAQMD, CalEEMod, Version 2013.2.
CARB, Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document, (1997).
USEPA, AP-42, Fifth Edition, Volume I, Chapter 13.2.1 - Paved Roads, (2011) and Chapter 13.2.2 - Unpaved Roads, (2006).
PCR Services Corporation, 2013.

Total On-Road Concrete Truck Emissions

Source	Running Speed	Emission Controls (Exhaust Retrofits)			Criteria Pollutant Emissions with Emission Controls (pounds/day)									
		NOx Percent Reduction ¹	PM10 Percent Reduction ²	PM2.5 Percent Reduction ²	VOC	NOx	CO	SOx	PM10 Exh	PM10 Dust ³	PM10 Total	PM2.5 Exh	PM2.5 Dust ³	PM2.5 Total
Year 2014 Emissions 10 CY Ready Mix Trucks	15	0%	85%	85%	5.17	34.59	25.65	0.06	0.02	2.34	2.36	0.02	0.26	0.28
Year 2015 Emissions 10 CY Ready Mix Trucks	15	0%	85%	85%	5.21	34.77	25.76	0.06	0.02	2.34	2.36	0.02	0.26	0.28
Year 2016 Emissions 10 CY Ready Mix Trucks	15	0%	85%	85%	5.26	34.93	25.87	0.06	0.02	2.34	2.36	0.02	0.26	0.28

Notes:

1. CARB, "Diesel Certifications, Verifications and Related Links; Verification Procedure - Currently Verified," <http://www.arb.ca.gov/diese/verdev/vt/cvt.htm>. Accessed April 2013. No reductions in NOx emissions were assumed.

2. CARB, "Diesel Certifications, Verifications and Related Links; Verification Procedure - Currently Verified," <http://www.arb.ca.gov/diese/verdev/vt/cvt.htm>. Accessed April 2013. Level 3 verified diesel particulate matter filters reduce diesel PM (PM10 and PM2.5) by 85 percent.

3. Dust emissions include road dust (RD), tire wear (TW), and break wear (BW) emissions.

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – Gas-fueled Vehicles/Equipment On-Road/On-Site Emissions

Gas Vehicle On-Road/On-Site Exhaust Emission Factors					Without Pavley/Low Carbon Fuel Standard					With Pavley/Low Carbon Fuel Standard					
Source	Vehicle Category	Region	Calendar Year	Model Year ¹	Speed (miles/hr)	GHG Exhaust Emission Factor (grams/mile)	CO2	CH4	N2O	CO2e	GHG Exhaust Emission Factor (grams/mile)	CO2	CH4	N2O	CO2e
Gas Vehicles	LHD2	South Coast AQMD	2014	Aggregated	Aggregated	613.05	0.021	0.014	0.023	620.72	875.94	0.606	0.595	1.158	1,247.69
Gas Vehicles	LHD2	South Coast AQMD	2015	Aggregated	Aggregated	614.81	0.014	0.021	0.019	621.60	875.21	0.595	1.134	1,239.27	1,247.69
Gas Vehicles	LHD2	South Coast AQMD	2016	Aggregated	Aggregated	614.71	0.013	0.019	0.019	620.87	875.75	0.293	1.109	1,225.68	1,247.69
Gas Vehicles	LHD2	South Coast AQMD	2017	Aggregated	Aggregated	614.58	0.013	0.013	0.013	620.14	875.68	0.289	1.083	1,217.42	1,247.69
Gas Vehicles	LHD2	South Coast AQMD	2018	Aggregated	Aggregated	614.45	0.013	0.015	0.015	619.46	874.76	0.285	1.056	1,207.98	1,247.69

Abbreviations:
Exh = Exhaust (i.e., fuel combustion emissions).

Notes:
1. EMFAC2011 Model run with aggregated model years, thus using fleet average emission factors.
Source: CARB, "EMFAC Emissions Database," <http://www.arb.ca.gov/emfac/>, Accessed August 2013.
PCRB Services Corporation, 2013.

Per CARB guidance, methane (CH4) emission factors for light-duty vehicles are calculated as follows: CH4 Factor = EMFAC2011-LDV model output.
Per CARB guidance, nitrous oxide (N2O) emission factors for light-duty vehicles are calculated as follows: N2O Factor = NOx * 4.16%.
http://www.arb.ca.gov/mse/emfac2011-faq.htm#emfac2011_web_db_qstn07.

Gas Vehicle On-Road/On-Site Exhaust Emissions						Without Pavley/Low Carbon Fuel Standard					With Pavley/Low Carbon Fuel Standard											
Crew	Calendar Year	Number of Months per Year	Number of Units	Round Trips per Day ¹	Miles per Round Trip ¹	GHG Exhaust Emissions (MT/year)				GHG Startup Emissions (MT/year)				GHG Exhaust Emissions (MT/year)				GHG Startup Emissions (MT/year)				
						CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e	
Administrative Support	2014	12	9	4	1.2	6.992	0.000	0.000	7.079	2.081	0.001	0.003	2.965	6.887	0.000	0.000	6.974	2.050	0.001	0.003	2.933	
Administrative Support	2015	7	9	4	1.2	4.090	0.000	0.000	4.135	1.213	0.001	0.002	1.718	3.988	0.000	0.000	4.033	1.183	0.001	0.002	1.687	
Administrative Support	2016	3	9	4	1.2	1.753	0.000	0.000	1.770	0.520	0.000	0.001	0.281	1.691	0.000	0.000	1.709	0.502	0.000	0.001	0.710	
Administrative Support	2017	12	9	4	1.2	7.009	0.000	0.000	7.073	2.081	0.001	0.003	2.893	6.659	0.000	0.000	6.722	1.977	0.000	0.003	2.789	
Administrative Support	2018	3	9	4	1.2	1.752	0.000	0.000	1.766	0.520	0.000	0.001	0.718	1.638	0.000	0.000	1.652	0.486	0.000	0.001	0.684	
Environmental Crew	2014	2	1	4	1.2	0.129	0.000	0.000	0.131	0.039	0.000	0.000	0.055	0.128	0.000	0.000	0.129	0.038	0.000	0.000	0.054	
Environmental Crew	2015	2	1	4	1.2	0.130	0.000	0.000	0.131	0.039	0.000	0.000	0.055	0.127	0.000	0.000	0.128	0.038	0.000	0.000	0.054	
Environmental Crew	2016	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Crew	2017	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Crew	2018	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fence Crew	2014	1	1	4	1.2	0.065	0.000	0.000	0.066	0.019	0.000	0.000	0.027	0.064	0.000	0.000	0.065	0.019	0.000	0.000	0.027	
Fence Crew	2015	4	1	4	1.2	0.260	0.000	0.000	0.263	0.077	0.000	0.000	0.109	0.253	0.000	0.000	0.256	0.075	0.000	0.000	0.107	
Fence Crew	2016	1	1	4	1.2	0.065	0.000	0.000	0.066	0.019	0.000	0.000	0.027	0.063	0.000	0.000	0.063	0.019	0.000	0.000	0.026	
Fence Crew	2017	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fence Crew	2018	1	1	4	1.2	0.065	0.000	0.000	0.065	0.019	0.000	0.000	0.027	0.061	0.000	0.000	0.061	0.018	0.000	0.000	0.025	
Miscellaneous Labor Crew	2014	12	1	4	1.2	0.777	0.000	0.000	0.787	0.231	0.000	0.000	0.329	0.765	0.000	0.000	0.775	0.228	0.000	0.000	0.326	
Miscellaneous Labor Crew	2015	7	1	4	1.2	0.454	0.000	0.000	0.459	0.135	0.000	0.000	0.191	0.443	0.000	0.000	0.448	0.131	0.000	0.000	0.187	
Miscellaneous Labor Crew	2016	3	1	4	1.2	0.195	0.000	0.000	0.197	0.058	0.000	0.000	0.081	0.188	0.000	0.000	0.190	0.056	0.000	0.000	0.079	
Miscellaneous Labor Crew	2017	12	1	4	1.2	0.779	0.000	0.000	0.786	0.231	0.000	0.000	0.321	0.740	0.000	0.000	0.747	0.220	0.000	0.000	0.310	
Miscellaneous Labor Crew	2018	3	1	4	1.2	0.195	0.000	0.000	0.196	0.058	0.000	0.000	0.080	0.182	0.000	0.000	0.184	0.054	0.000	0.000	0.076	
Crusher Crew	2014	1	1	4	1.2	0.065	0.000	0.000	0.066	0.019	0.000	0.000	0.027	0.064	0.000	0.000	0.065	0.019	0.000	0.000	0.027	
Crusher Crew	2015	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crusher Crew	2016	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crusher Crew	2017	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crusher Crew	2018	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Survey Crew	2014	12	3	4	1.2	2.331	0.000	0.000	2.360	0.694	0.000	0.001	0.988	2.296	0.000	0.000	2.325	0.683	0.000	0.001	0.978	
Survey Crew	2015	7	3	4	1.2	1.363	0.000	0.000	1.378	0.404	0.000	0.001	0.573	1.329	0.000	0.000	1.344	0.394	0.000	0.001	0.562	
Survey Crew	2016	3	3	4	1.2	0.584	0.000	0.000	0.590	0.173	0.000	0.000	0.243	0.564	0.000	0.000	0.570	0.167	0.000	0.000	0.237	
Survey Crew	2017	4	3	4	1.2	0.779	0.000	0.000	0.786	0.231	0.000	0.000	0.321	0.740	0.000	0.000	0.747	0.220	0.000	0.000	0.310	
Survey Crew	2018	-	3	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quality Control Team	2014	12	5	4	1.2	3.884	0.000	0.000	3.933	1.156	0.001	0.002	1.647	3.826	0.000	0.000	3.875	1.139	0.001	0.002	1.630	
Quality Control Team	2015	7	5	4	1.2	2.272	0.000	0.000	2.297	0.674	0.000	0.001	0.954	2.216	0.000	0.000	2.241	0.657	0.000	0.001	0.937	
Quality Control Team	2016	3	5	4	1.2	0.974	0.000	0.000	0.983	0.289	0.000	0.000	0.404	0.940	0.000	0.000	0.949	0.279	0.000	0.000	0.394	
Quality Control Team	2017	12	5	4	1.2	3.894	0.000	0.000	3.929	1.156	0.000	0.001	1.607	3.699	0.000	0.000	3.734	1.098	0.000	0.001	1.549	
Quality Control Team	2018	2	5	4	1.2	0.649	0.000	0.000	0.654	0.192	0.000	0.000	0.266	0.607	0.000	0.000	0.612	0.180	0.000	0.000	0.253	
Batch Plant Crew	2014	6	1	4	1.2	0.388	0.000	0.000	0.393	0.116	0.000	0.000	0.165	0.383	0.000	0.000	0.387	0.114	0.000	0.000	0.163	
Batch Plant Crew	2015	2	1	4	1.2	0.130	0.000	0.000	0.131	0.039	0.000	0.000	0.055	0.127	0.000	0.000	0.128	0.038	0.000	0.000	0.054	
Batch Plant Crew	2016	3	1	4	1.2	0.195	0.000	0.000	0.197	0.058	0.000	0.000	0.081	0.188	0.000	0.000	0.190	0.056	0.000	0.000	0.079	
Batch Plant Crew	2017	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Batch Plant Crew	2018	-	1	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCCP Paving Crew	2014	6	7	4	1.2	2.719	0.000	0.000	2.753	0.809	0.001	0.001	1.153	2.678	0.000	0.000	2.712	0.797	0.001	0.001	1.141	
PCCP Paving Crew	2015	2	7	4	1.2	0.909	0.000	0.000	0.919	0.270	0.000	0.000	0.382	0.886	0.000	0.000	0.896	0.263	0.000	0.000	0.375	
PCCP Paving Crew	2016	-	7	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCCP Paving Crew	2017	-	7	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCCP Paving Crew	2018	-	7	4	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grading Crew	2014	10	1	4	1.2	0.647	0.000	0.000	0.655	0.193	0.000	0.000	0.274	0.638	0.000	0.000	0.646	0.190	0.000	0.000	0.272	

[illegible]

Lighting - Night Shift Lighting - Night Shift	2017 2018															
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAWA/CM Staff	2014	10.08	0.00	0.00	0.00	11.16	0.37	9.93	0.00	0.00	0.00	11.01	0.37	-	-	-
LAWA/CM Staff	2015	5.89	0.00	0.00	0.00	6.50	0.22	5.75	0.00	0.00	0.00	6.36	0.21	-	-	-
LAWA/CM Staff	2016	2.53	0.00	0.00	0.00	2.78	0.09	2.44	0.00	0.00	0.00	2.69	0.09	-	-	-
LAWA/CM Staff	2017	10.10	0.00	0.00	0.00	11.07	0.37	9.59	0.00	0.00	0.00	10.57	0.35	-	-	-
LAWA/CM Staff	2018	2.52	0.00	0.00	0.00	2.76	0.09	2.36	0.00	0.00	0.00	2.60	0.09	-	-	-

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – Road Dust Emission Factors (PM10 & PM2.5)

LAX/LAWA West Aircraft Maintenance Area Project
Draft EIR Air Quality Analysis
Road Dust Emission Factors

Paved Road Dust Emission Factors (Assumes No Precipitation)

Formula: $EF_{Dust,P} = (k (sL)^{0.91} \times (W)^{1.02})$

Where:

$EF_{Dust,P}$ = Paved Road Dust Emission Factor (having the same units as k)

k = particle size multiplier

sL = road surface silt loading (g/m^2)

W = average fleet vehicle weight (tons) (CARB uses 2.4 tons as a fleet average vehicle weight factor)

Emission Factor (grams per VMT)		
	PM10	PM2.5
k	0.9979	0.2449
sL	0.1	0.1
W	2.4	2.4
$EF_{Dust,P}$	3.00E-01	7.36E-02

Unpaved Road Dust Emission Factors (Assumes No Precipitation)

Formula: $EF_{Dust,U} = (k (s / 12)^1 \times (Sp / 30)^{0.5} / (M / 0.5)^{0.2}) - C$

Where:

$EF_{Dust,U}$ = Unpaved Road Dust Emission Factor (having the same units as k)

k = particle size multiplier

s = surface material silt content (%)

Sp = mean vehicle speed (mph)

M = surface material moisture content (%)

C = Emission Factor for 1980s vehicle fleet exhaust, brake wear, and tire wear

Emission Factor (grams per VMT)		
	PM10	PM2.5
k	816.47	81.65
s	4.3%	4.3%
Sp	15	15
M	0.5%	0.5%
C	0.00047	0.00036
$EF_{Dust,U}$	5.20E+00	5.19E-01

Sources:

SCAQMD, CalEEMod, Version 2013.2.

CARB, *Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document*, (1997).

USEPA, *AP-42*, Fifth Edition, Volume I, Chapter 13.2.1 - Paved Roads, (2011).

PCR Services Corporation, 2013.

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – CalEEMod Off-Road/On-Site, Worker Commute, Vendor Truck Delivery Emissions (Pounds per Day)
 - Year 1 (2014)

LAX West Aircraft Maintenance Area Project - ACP Paving Crew 2014
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.50	Acre	14.50	631,620.00	0
Enclosed Parking Structure	62.50	1000sqft	1.43	62,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.
Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Paver" = Loader; "Paving Equipment" = Flat Bed Truck; "Roller" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
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tblAreaCoating	Area_Nonresidential_Interior	947430	187500
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2015	12/31/2014
tblConstructionPhase	PhaseStartDate	1/1/2015	7/1/2014
tblOffRoadEquipment	HorsePower	125.00	174.00
tblOffRoadEquipment	HorsePower	125.00	90.00
tblOffRoadEquipment	HorsePower	130.00	99.00
tblOffRoadEquipment	HorsePower	130.00	200.00
tblOffRoadEquipment	HorsePower	80.00	145.00
tblOffRoadEquipment	HorsePower	80.00	350.00
tblOffRoadEquipment	LoadFactor	0.42	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	13.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104

tblProjectCharacteristics	OperationalYear	2018
tblTripsAndVMT	WorkerTripNumber	44.00
tblTripsAndVMT	WorkerTripNumber	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	13.3290	154.0677	100.3306	0.1500	0.4918	6.5306	7.0224	0.1304	6.0081	6.1386	0.0000	15,801.69	15,801.69	4.5360	0.0000	15,896.9535
Total	13.3290	154.0677	100.3306	0.1500	0.4918	6.5306	7.0224	0.1304	6.0081	6.1386	0.0000	15,801.69	15,801.69	4.5360	0.0000	15,896.9535

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	5.1049	68.8249	83.9498	0.1498	0.4918	0.4181	0.9099	0.1304	0.5082	0.6386	0.0000	15,787.71	15,787.71	4.5318	0.0000	15,882.8834
Total	5.1049	68.8249	83.9498	0.1498	0.4918	0.4181	0.9099	0.1304	0.5082	0.6386	0.0000	15,787.71	15,787.71	4.5318	0.0000	15,882.8834

	ROG	NOx	CO	SO2	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	61.7007	55.3282	16.3268	0.0867	0.0000	93.5977	87.0427	0.0000	91.5420	89.5969	0.0000	0.0885	0.0885	0.0913	0.0000	0.0885

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	ACP Paving Crew pt.1 - Jul-Dec 2014	Paving	7/1/2014	12/31/2014	5	132	
2	ACP Paving Crew pt.2 - Jul-Dec 2014	Paving	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ACP Paving Crew pt.1 - Jul-Dec 2014	Pavers	1	8.00	174	0.42
ACP Paving Crew pt.1 - Jul-Dec 2014	Paving Equipment	2	8.00	99	0.36
ACP Paving Crew pt.1 - Jul-Dec 2014	Rollers	1	8.00	145	0.38
ACP Paving Crew pt.2 - Jul-Dec 2014	Pavers	1	8.00	90	0.36
ACP Paving Crew pt.2 - Jul-Dec 2014	Paving Equipment	1	2.00	200	0.31
ACP Paving Crew pt.2 - Jul-Dec 2014	Rollers	13	8.00	350	0.31

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
ACP Paving Crew pt.1 - Jul-Dec 2014	4	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ACP Paving Crew pt.2 - Jul-Dec 2014	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 ACP Paving Crew pt.1 - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8559	19.9917	11.7512	0.0172	1.1934	1.1934	1.1934	1.0979	1.0979	1.0979	1,819.366	1,819.366	1,819.366	0.5376		1,830.6565
Paving	0.2878				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.1437	19.9917	11.7512	0.0172	1.1934	1.1934	1.1934	1.0979	1.0979	1.0979	1,819.366	1,819.366	1,819.366	0.5376		1,830.6565

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	1.0237	0.2838	3.5024	6.2300e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		560.0296	560.0296	0.0319		560.6990
Total	1.0237	0.2838	3.5024	6.2300e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		560.0296	560.0296	0.0319		560.6990

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day
Off-Road	0.4218	8.6815	13.0042	0.0171	0.0681	0.0681	0.0681	0.0000	1,817.6969	1,817.6969	0.5372
Paving	0.2878				0.0000	0.0000	0.0000	0.0000		0.0000	0.0000
Total	0.7096	8.6815	13.0042	0.0171	0.0681	0.0681	0.0681	0.0000	1,817.6969	1,817.6969	0.5372
											1,828.9770

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0237	0.2838	3.5024	6.2300e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		560.0296	560.0296	0.0319		560.6990
Total	1.0237	0.2838	3.5024	6.2300e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		560.0296	560.0296	0.0319		560.6990

3.3 ACP Paving Crew pt.2 - Jul-Dec 2014 - 2014
Unmitigated Construction On-Site

Acres of Grading: 0

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	9.8737	133.7923	85.0771	0.1266		5.3326	5.3326		4.9060	4.9060		13,422.3029	13,422.3029	3.9664		113,505.5980
Paving	0.2878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	10.1615	133.7923	85.0771	0.1266	5.3326	5.3326	4.9060	4.9060	13,422.30 29	13,422.30 29	3.9664	13,505.598 0
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0838	59.8596	67.4433	0.1265		0.3454	0.3454		0.4358	0.4358	0.0000	13,409.98 86	13,409.98 86	3.9628		13,493.207 4
Paving	0.2878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3716	59.8596	67.4433	0.1265		0.3454	0.3454		0.4358	0.4358	0.0000	13,409.98 86	13,409.98 86	3.9628		13,493.207 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - ACP Paving Crew 2014
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.50	Acre	14.50	631,620.00	0
Enclosed Parking Structure	62.50	1000sqft	1.43	62,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.
Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Paver" = Loader; "Paving Equipment" = Flat Bed Truck;
"Roller" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
------------	-------------	---------------	-----------

tblAreaCoating	Area_Nonresidential_Interior	947430	187500
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	PhaseEndDate	7/3/2015	12/31/2014
tblConstructionPhase	PhaseStartDate	1/1/2015	7/1/2014
tblOffRoadEquipment	HorsePower	125.00	174.00
tblOffRoadEquipment	HorsePower	125.00	90.00
tblOffRoadEquipment	HorsePower	130.00	99.00
tblOffRoadEquipment	HorsePower	130.00	200.00
tblOffRoadEquipment	HorsePower	80.00	145.00
tblOffRoadEquipment	HorsePower	80.00	350.00
tblOffRoadEquipment	LoadFactor	0.42	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	13.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104

tblProjectCharacteristics	OperationalYear	2018
tblTripsAndVMT	WorkerTripNumber	44.00
tblTripsAndVMT	WorkerTripNumber	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	13.5213	154.0956	100.0761	0.1496	0.4918	6.5306	7.0224	0.1304	6.0081	6.1386	0.0000	15,767.11	15,767.11	4.5360	0.0000	15,862.3708
Total	13.5213	154.0956	100.0761	0.1496	0.4918	6.5306	7.0224	0.1304	6.0081	6.1386	0.0000	15,767.11	15,767.11	4.5360	0.0000	15,862.3708

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	5.2973	68.8527	83.6953	0.1494	0.4918	0.4181	0.9099	0.1304	0.5082	0.6386	0.0000	15,753.13	15,753.13	4.5318	0.0000	15,848.3006
Total	5.2973	68.8527	83.6953	0.1494	0.4918	0.4181	0.9099	0.1304	0.5082	0.6386	0.0000	15,753.13	15,753.13	4.5318	0.0000	15,848.3006

	ROG	NOx	CO	SO2	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	60.8230	55.3182	16.3684	0.0869	0.0000	93.5977	87.0427	0.0000	91.5420	89.5969	0.0000	0.0887	0.0887	0.0913	0.0000	0.0887

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	ACP Paving Crew pt.1 - Jul-Dec 2014	Paving	7/1/2014	12/31/2014	5	132	
2	ACP Paving Crew pt.2 - Jul-Dec 2014	Paving	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ACP Paving Crew pt.1 - Jul-Dec 2014	Pavers	1	8.00	174	0.42
ACP Paving Crew pt.1 - Jul-Dec 2014	Paving Equipment	2	8.00	99	0.36
ACP Paving Crew pt.1 - Jul-Dec 2014	Rollers	1	8.00	145	0.38
ACP Paving Crew pt.2 - Jul-Dec 2014	Pavers	1	8.00	90	0.36
ACP Paving Crew pt.2 - Jul-Dec 2014	Paving Equipment	1	2.00	200	0.31
ACP Paving Crew pt.2 - Jul-Dec 2014	Rollers	13	8.00	350	0.31

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
ACP Paving Crew pt.1 - Jul-Dec 2014	4	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ACP Paving Crew pt.2 - Jul-Dec 2014	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 ACP Paving Crew pt.1 - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8559	19.9917	11.7512	0.0172	1.1934	1.1934	1.1934	1.0979	1.0979	1.0979	1,819.366	0	1,819.366	0.5376		1,830.6565
Paving	0.2878				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Total	2.1437	19.9917	11.7512	0.0172	1.1934	1.1934	1.1934	1.0979	1.0979	1.0979	1,819.366	0	1,819.366	0.5376		1,830.6565

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	1.2161	0.3117	3.2478	5.8400e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		525.4469	525.4469	0.0319		526.1163
Total	1.2161	0.3117	3.2478	5.8400e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		525.4469	525.4469	0.0319		526.1163

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day
Off-Road	0.4218	8.6815	13.0042	0.0171	0.0681	0.0681	0.0681	0.0000	1,817.6969	1,817.6969	0.5372
Paving	0.2878				0.0000	0.0000	0.0000	0.0000			0.0000
Total	0.7096	8.6815	13.0042	0.0171	0.0681	0.0681	0.0681	0.0000	1,817.6969	1,817.6969	0.5372
											1,828.9770

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.2161	0.3117	3.2478	5.8400e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		525.4469	525.4469	0.0319		526.1163
Total	1.2161	0.3117	3.2478	5.8400e-003	0.4918	4.6400e-003	0.4965	0.1304	4.2400e-003	0.1347		525.4469	525.4469	0.0319		526.1163

3.3 ACP Paving Crew pt.2 - Jul-Dec 2014 - 2014
Unmitigated Construction On-Site

Acres of Grading: 0

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	9.8737	133.7923	85.0771	0.1266	5.3326	5.3326	5.3326	4.9060	4.9060	4.9060		13,422.3029	13,422.3029	3.9664		113,505.5980
Paving	0.2878				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Total	10.1615	133.7923	85.0771	0.1266		5.3326	5.3326	4.9060	4.9060	13,422.30 29	13,422.30 29	3.9664	13,505.598 0
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0838	59.8596	67.4433	0.1265		0.3454	0.3454		0.4358	0.4358	0.0000	13,409.98 86	13,409.98 86	3.9628		13,493.207 4
Paving	0.2878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3716	59.8596	67.4433	0.1265		0.3454	0.3454		0.4358	0.4358	0.0000	13,409.98 86	13,409.98 86	3.9628		13,493.207 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Admin Support Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Mechanics Truck"; "Tractor/Loader/Backhoe" = "Vacuum Sweeper"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Total	2.1482	17.8637	10.2274	0.0171	6.3028	0.8749	7.1778	3.3849	0.8049	4.1899	0.0000	1,752.5527	1,752.5527	0.4322	0.0000	1,761.6296
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.9241	6.6677	10.6989	0.0170	2.6294	0.0477	2.6770	1.3657	0.0519	1.4176	0.0000	1,751.2660	1,751.2660	0.4319	0.0000	1,760.3349
Total	0.9241	6.6677	10.6989	0.0170	2.6294	0.0477	2.6770	1.3657	0.0519	1.4176	0.0000	1,751.2660	1,751.2660	0.4319	0.0000	1,760.3349

	ROG	NOx	CO	SO2	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	56.9827	62.6746	-4.6105	0.0587	58.2828	94.5516	62.7037	59.6538	93.5472	66.1651	0.0000	0.0734	0.0734	0.0879	0.0000	0.0735

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Administrative Support Crew	Site Preparation	1/1/2014	12/31/2014	5	261	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Administrative Support Crew	Rubber Tired Dozers	1	8.00	200	0.38
Administrative Support Crew	Tractors/Loaders/Backhoes	1	8.00	170	0.46

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
Administrative Support Crew	2	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Administrative Support Crew - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.5494	17.4847	8.0774	0.0132		0.8680	0.8680		0.7985	0.7985		1,402.4969	1,402.4969	0.4145		1,411.2004
Total	1.5494	17.4847	8.0774	0.0132	6.0221	0.8680	6.8900	3.3102	0.7985	4.1088		1,402.4969	1,402.4969	0.4145		1,411.2004

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
Vendor	0.0404	0.2242	0.2396	4.4000e-004	0.0125	4.4500e-003	0.0169	3.5600e-003	4.0900e-003	7.6500e-003		44.5851	44.5851	3.9000e-004		44.5934
Worker	0.5584	0.1548	1.9104	3.4000e-003	0.2683	2.5300e-003	0.2708	0.0711	2.3100e-003	0.0735		305.4707	305.4707	0.0174		305.8358

Total	0.5988	0.3790	2.1500	3.8400e-003	0.2808	6.9800e-003	0.2877	0.0747	6.4000e-003	0.0811	350.0558	350.0558	0.0178	350.4292
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3253	6.2887	8.5489	0.0132	0.0407	0.0407	0.0407	0.0455	0.0455	0.0455	0.0000	1,401.2102	1,401.2102	0.4141	1,409.9057	1,409.9057
Total	0.3253	6.2887	8.5489	0.0132	2.3486	0.0407	2.3893	1.2910	0.0455	1.3365	0.0000	1,401.2102	1,401.2102	0.4141	1,409.9057	1,409.9057

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0404	0.2242	0.2396	4.4000e-004	0.0125	4.4500e-003	0.0169	3.5600e-003	4.0900e-003	7.6500e-003	0.0000	44.5851	44.5851	3.9000e-004	44.5934	44.5934
Worker	0.5584	0.1548	1.9104	3.4000e-003	0.2683	2.5300e-003	0.2708	0.0711	2.3100e-003	0.0735	0.0000	305.4707	305.4707	0.0174	305.8358	305.8358
Total	0.5988	0.3790	2.1500	3.8400e-003	0.2808	6.9800e-003	0.2877	0.0747	6.4000e-003	0.0811	0.0000	350.0558	350.0558	0.0178	350.4292	350.4292

LAX West Aircraft Maintenance Area Project - Admin Support Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Mechanics Truck"; "Tractor/Loader/Backhoe" = "Vacuum Sweeper"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	261.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	97.00	170.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	24.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	2.2570	17.8849	10.1291	0.0168	6.3028	0.8750	7.1778	3.3849	0.8050	4.1899	0.0000	1,733.320	1,733.320	0.4322	0.0000	1,742.3974
"	"	"	"	"	"	"	"	"	"	"	"	3	3	"	"	"

Total	2.2570	17.8849	10.1291	0.0168	6.3028	0.8750	7.1778	3.3849	0.8050	4.1899	0.0000	1,733.320	1,733.320	0.4322	0.0000	1,742.3974
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	1.0329	6.6889	10.6006	0.0168	2.6294	0.0477	2.6771	1.3657	0.0520	1.4177	0.0000	1,732.033	1,732.033	0.4319	0.0000	1,741.1027
Total	1.0329	6.6889	10.6006	0.0168	2.6294	0.0477	2.6771	1.3657	0.0520	1.4177	0.0000	1,732.033	1,732.033	0.4319	0.0000	1,741.1027

	ROG	NOx	CO	SO2	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	54.2364	62.6003	-4.6552	0.0594	58.2828	94.5451	62.7032	59.6538	93.5414	66.1643	0.0000	0.0742	0.0742	0.0879	0.0000	0.0743

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Administrative Support Crew	Site Preparation	1/1/2014	12/31/2014	5	261	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Administrative Support Crew	Rubber Tired Dozers	1	8.00	200	0.38
Administrative Support Crew	Tractors/Loaders/Backhoes	1	8.00	170	0.46

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
Administrative Support Crew	2	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Administrative Support Crew - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.5494	17.4847	8.0774	0.0132		0.8680	0.8680		0.7985	0.7985		1,402.4969	1,402.4969	0.4145		1,411.2004
Total	1.5494	17.4847	8.0774	0.0132	6.0221	0.8680	6.8900	3.3102	0.7985	4.1088		1,402.4969	1,402.4969	0.4145		1,411.2004

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Vendor	0.0443	0.2302	0.2802	4.3000e-004	0.0125	4.5100e-003	0.0170	3.5600e-003	4.1400e-003	7.7000e-003	44.2161	44.2161	4.0000e-004	44.2245
Worker	0.6633	0.1700	1.7716	3.1900e-003	0.2683	2.5300e-003	0.2708	0.0711	2.3100e-003	0.0735	286.6074	286.6074	0.0174	286.9725
Total	0.7076	0.4002	2.0517	3.6200e-003	0.2808	7.0400e-003	0.2878	0.0747	6.4500e-003	0.0812	330.8235	330.8235	0.0178	331.1970

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	0.3253	6.2887	8.5489	0.0132		0.0407	0.0407		0.0455	0.0455	0.0000	1,401.2102	1,401.2102	0.4141		1,409.9057
Total	0.3253	6.2887	8.5489	0.0132	2.3486	0.0407	2.3893	1.2910	0.0455	1.3365	0.0000	1,401.2102	1,401.2102	0.4141		1,409.9057

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Vendor	0.0443	0.2302	0.2802	4.3000e-004	0.0125	4.5100e-003	0.0170	3.5600e-003	4.1400e-003	7.7000e-003			44.2161	4.0000e-004		44.2245
Worker	0.6633	0.1700	1.7716	3.1900e-003	0.2683	2.5300e-003	0.2708	0.0711	2.3100e-003	0.0735			286.6074	0.0174		286.9725
Total	0.7076	0.4002	2.0517	3.6200e-003	0.2808	7.0400e-003	0.2878	0.0747	6.4500e-003	0.0812			330.8235	0.0178		331.1970

LAX West Aircraft Maintenance Area Project - Backfill Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Table Name	Column Name	Default Value	New Value
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Total	1.3183	15.4427	5.2295	0.0166	0.5002	0.4936	0.9938	0.0751	0.4541	0.5292	0.0000	1,736.471 6	1,736.471 6	0.4767	0.0000	1,746.4824
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.6445	7.1399	8.8700	0.0166	0.2769	0.0415	0.3183	0.0510	0.0523	0.1033	0.0000	1,735.018 6	1,735.018 6	0.4763	0.0000	1,745.0204
Total	0.6445	7.1399	8.8700	0.0166	0.2769	0.0415	0.3183	0.0510	0.0523	0.1033	0.0000	1,735.018 6	1,735.018 6	0.4763	0.0000	1,745.0204

	ROG	NOx	CO	SO2	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	51.1094	53.7655	-69.6156	0.0601	44.6410	91.6020	67.9661	32.1039	88.4820	80.4808	0.0000	0.0837	0.0837	0.0902	0.0000	0.0837

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Backfill Crew - Apr-Dec 2014	Grading	4/1/2014	12/31/2014	5	197	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Backfill Crew - Apr-Dec 2014	Excavators	1	8.00	232	0.38
Backfill Crew - Apr-Dec 2014	Graders	1	8.00	235	0.36
Backfill Crew - Apr-Dec 2014	Rubber Tired Dozers	0	8.00	255	0.40
Backfill Crew - Apr-Dec 2014	Scrapers	0	8.00	361	0.48

Backfill Crew - Apr-Dec 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
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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
Backfill Crew - Apr-Dec 2014	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Backfill Crew - Apr-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.3661	0.0000	0.3661	0.0395	0.0000	0.0395			0.0000			0.0000
Off-Road	1.0391	15.3653	4.2743	0.0149		0.4923	0.4923		0.4529	0.4529		1,583.7363	1,583.7363	0.4680		1,593.5645
Total	1.0391	15.3653	4.2743	0.0149	0.3661	0.4923	0.8584	0.0395	0.4529	0.4925		1,583.7363	1,583.7363	0.4680		1,593.5645

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179
Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.1428	0.0000	0.1428	0.0154	0.0000	0.0154			0.0000			0.0000
Off-Road	0.3653	7.0625	7.9148	0.0149		0.0402	0.0402		0.0511	0.0511	0.0000	1,582.2833	1,582.2833	0.4676		1,592.1025
Total	0.3653	7.0625	7.9148	0.0149	0.1428	0.0402	0.1829	0.0154	0.0511	0.0666	0.0000	1,582.2833	1,582.2833	0.4676		1,592.1025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	152.7353	152.7353	8.6900e-003	152.9179	152.9179	152.9179	152.9179	152.9179
Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	152.7353	152.7353	8.6900e-003	152.9179	152.9179	152.9179	152.9179	152.9179

LAX West Aircraft Maintenance Area Project - Backfill Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Table Name	Column Name	Default Value	New Value
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Total	1.3707	15.4503	5.1601	0.0165	0.5002	0.4936	0.9938	0.0751	0.4541	0.5292	0.0000	1,727.0400	1,727.0400	0.4767	0.0000	1,737.0508
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.6970	7.1475	8.8006	0.0165	0.2769	0.0415	0.3183	0.0510	0.0523	0.1033	0.0000	1,725.587	1,725.587	0.4763	0.0000	1,735.5888
Total	0.6970	7.1475	8.8006	0.0165	0.2769	0.0415	0.3183	0.0510	0.0523	0.1033	0.0000	1,725.587	1,725.587	0.4763	0.0000	1,735.5888

	ROG	NOx	CO	SO2	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	49.1534	53.7390	-70.5521	0.0605	44.6410	91.6020	67.9661	32.1039	88.4820	80.4808	0.0000	0.0841	0.0841	0.0902	0.0000	0.0842

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Backfill Crew - Apr-Dec 2014	Grading	4/1/2014	12/31/2014	5	197	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Backfill Crew - Apr-Dec 2014	Excavators	1	8.00	232	0.38
Backfill Crew - Apr-Dec 2014	Graders	1	8.00	235	0.36
Backfill Crew - Apr-Dec 2014	Rubber Tired Dozers	0	8.00	255	0.40
Backfill Crew - Apr-Dec 2014	Scrapers	0	8.00	361	0.48

Backfill Crew - Apr-Dec 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
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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
Backfill Crew - Apr-Dec 2014	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Backfill Crew - Apr-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.3661	0.0000	0.3661	0.0395	0.0000	0.0395			0.0000			0.0000
Off-Road	1.0391	15.3653	4.2743	0.0149		0.4923	0.4923		0.4529	0.4529		1,583.7363	1,583.7363	0.4680		1,593.5645
Total	1.0391	15.3653	4.2743	0.0149	0.3661	0.4923	0.8584	0.0395	0.4529	0.4925		1,583.7363	1,583.7363	0.4680		1,593.5645

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	143.3037	143.3037	143.3037	8.6900e-003		143.4863
Total	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	143.3037	143.3037	143.3037	8.6900e-003		143.4863

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.1428	0.0000	0.1428	0.0154	0.0000	0.0154			0.0000			0.0000
Off-Road	0.3653	7.0625	7.9148	0.0149		0.0402	0.0402		0.0511	0.0511	0.0000	1,582.2833	1,582.2833	0.4676		1,592.1025
Total	0.3653	7.0625	7.9148	0.0149	0.1428	0.0402	0.1829	0.0154	0.0511	0.0666	0.0000	1,582.2833	1,582.2833	0.4676		1,592.1025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	143.3037	143.3037	143.3037	8.6900e-003	143.4863	143.4863	143.4863	143.4863
Total	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	143.3037	143.3037	143.3037	8.6900e-003	143.4863	143.4863	143.4863	143.4863

LAX West Aircraft Maintenance Area Project - Batch Plant Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = CAT 988 Loader.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	132.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.40	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.6637	50.0333	39.1727	0.0323	12.1783	2.3305	14.5088	6.6560	2.1440	8.8001	0.0000	3,405.409	3,405.409	0.9699	0.0000	3,425.7775
													7	7		
Total	4.6637	50.0333	39.1727	0.0323	12.1783	2.3305	14.5088	6.6560	2.1440	8.8001	0.0000	3,405.409	3,405.409	0.9699	0.0000	3,425.7775
												7	7			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.0225	14.4468	17.0588	0.0323	4.8314	0.0830	4.9144	2.6176	0.1052	2.7228	0.0000	3,402.425	3,402.425	0.9690	0.0000	3,422.7748
													5	5		

Total	1.0225	14.4468	17.0588	0.0323	4.8314	0.0830	4.9144	2.6176	0.1052	2.7228	0.0000	3,402.4255	3,402.4255	0.9690	0.0000	3,422.7748
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	78.0766	71.1256	56.4522	0.0928	60.3281	96.4376	66.1282	60.6740	95.0929	69.0597	0.0000	0.0876	0.0876	0.0907	0.0000	0.0876

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Batch Plant Crew - Jul-Dec 2014	Site Preparation	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Batch Plant Crew - Jul-Dec 2014	Rubber Tired Dozers	2	8.00	475	0.37
Batch Plant Crew - Jul-Dec 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Batch Plant Crew - Jul-Dec 2014	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Batch Plant Crew - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	4.3845	49.9559	38.2175	0.0306		2.3292	2.3292		2.1429	2.1429		3,252.6743	3,252.6743	0.9612		3,272.8596
Total	4.3845	49.9559	38.2175	0.0306	12.0442	2.3292	14.3734	6.6205	2.1429	8.7633		3,252.6743	3,252.6743	0.9612		3,272.8596

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
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
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
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179
Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179

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
Fugitive Dust					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	0.7433	14.3694	16.1037	0.0306		0.0818	0.0818		0.1041	0.1041		3,249.6902	3,249.6902	0.9603		3,269.8569

Total	0.7433	14.3694	16.1037	0.0306	4.6972	0.0818	4.7790	2.5820	0.1041	2.6860	0.0000	3,249.690 2	3,249.690 2	0.9603		3,269.8569
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179
Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179

LAX West Aircraft Maintenance Area Project - Batch Plant Crew 2014
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = CAT 988 Loader.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	132.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.40	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.7162	50.0409	39.1033	0.0322	12.1783	2.3305	14.5088	6.6560	2.1440	8.8001	0.0000	3,395.978	3,395.978	0.9699	0.0000	3,416.3458
Total	4.7162	50.0409	39.1033	0.0322	12.1783	2.3305	14.5088	6.6560	2.1440	8.8001	0.0000	3,395.978	3,395.978	0.9699	0.0000	3,416.3458

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.0749	14.4544	16.9894	0.0322	4.8314	0.0830	4.9144	2.6176	0.1052	2.7228	0.0000	3,392.993	3,392.993	0.9690	0.0000	3,413.3431

Total	1.0749	14.4544	16.9894	0.0322	4.8314	0.0830	4.9144	2.6176	0.1052	2.7228	0.0000	3,392.993 9	3,392.993 9	0.9690	0.0000	3,413.3431
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	77.2081	71.1148	56.5524	0.0931	60.3281	96.4376	66.1282	60.6740	95.0929	69.0597	0.0000	0.0879	0.0879	0.0907	0.0000	0.0879

3.2 Batch Plant Crew - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	4.3845	49.9559	38.2175	0.0306	2.3292	2.3292	2.3292	2.1429	2.1429	2.1429		3,252.674 3	3,252.674 3	0.9612		3,272.8596
Total	4.3845	49.9559	38.2175	0.0306	12.0442	2.3292	14.3734	6.6205	2.1429	8.7633		3,252.674 3	3,252.674 3	0.9612		3,272.8596

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3317	0.0850	0.8858	1.5900e- 003	0.1341	1.2600e- 003	0.1354	0.0356	1.1600e- 003	0.0367		143.3037	143.3037	8.6900e- 003		143.4863
Total	0.3317	0.0850	0.8858	1.5900e- 003	0.1341	1.2600e- 003	0.1354	0.0356	1.1600e- 003	0.0367		143.3037	143.3037	8.6900e- 003		143.4863

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	0.7433	14.3694	16.1037	0.0306		0.0818	0.0818		0.1041	0.1041	0.0000	3,249.6902	3,249.6902	0.9603		3,269.8569
Total	0.7433	14.3694	16.1037	0.0306	4.6972	0.0818	4.7790	2.5820	0.1041	2.6860	0.0000	3,249.6902	3,249.6902	0.9603		3,269.8569

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		143.3037	143.3037	8.6900e-003		143.4863
Total	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		143.3037	143.3037	8.6900e-003		143.4863

LAX West Aircraft Maintenance Area Project - Building Systems Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Table Name		Column Name	Default Value	New Value
tblConstEquipMitigation		DPF		
tblConstEquipMitigation		NumberOfEquipmentMitigated	No Change	Level 3
tblConstEquipMitigation		Tier	0.00	3.00
tblConstEquipMitigation			No Change	Tier 3
tblConstructionPhase		NumDays	1,110.00	20.00
tblConstructionPhase		NumDays	1,110.00	23.00
tblConstructionPhase		PhaseEndDate	11/28/2014	11/30/2014
tblLandUse		LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment		HorsePower	226.00	125.00
tblOffRoadEquipment		HorsePower	89.00	50.00
tblOffRoadEquipment		HorsePower	226.00	125.00
tblOffRoadEquipment		HorsePower	89.00	50.00
tblOffRoadEquipment		LoadFactor	0.29	0.31
tblOffRoadEquipment		LoadFactor	0.20	0.31
tblOffRoadEquipment		LoadFactor	0.29	0.31
tblOffRoadEquipment		LoadFactor	0.20	0.31
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment		UsageHours	7.00	8.00
tblOffRoadEquipment		UsageHours	7.00	8.00
tblProjectCharacteristics		CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics		OperationalYear	2014	2018
tblTripsAndVMT		VendorTripNumber	20.00	0.00
tblTripsAndVMT		VendorTripNumber	20.00	0.00

tbTripsAndVMT	WorkerTripNumber	53.00	28.00
tbTripsAndVMT	WorkerTripNumber	53.00	28.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	5.2026	21.6101	19.6106	0.0195	0.3130	1.7042	2.0172	0.0830	1.5678	1.6508	0.0000	2,009.806	2,009.806	0.5089	0.0000	2,020.4934
												7	7			
Total	5.2026	21.6101	19.6106	0.0195	0.3130	1.7042	2.0172	0.0830	1.5678	1.6508	0.0000	2,009.806	2,009.806	0.5089	0.0000	2,020.4934
												7	7			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.2788	13.1912	19.2780	0.0195	0.3130	1.1015	1.4144	0.0830	1.0152	1.0982	0.0000	2,008.289	2,008.289	0.5084	0.0000	2,018.9670
												8	8			
Total	4.2788	13.1912	19.2780	0.0195	0.3130	1.1015	1.4144	0.0830	1.0152	1.0982	0.0000	2,008.289	2,008.289	0.5084	0.0000	2,018.9670
												8	8			

	ROG	NOx	CO	SO2	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	17.7553	38.9581	1.6959	0.1027	0.0000	35.3681	29.8805	0.0000	35.2510	33.4787	0.0000	0.0755	0.0755	0.0884	0.0000	0.0755

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Systems Crew - Nov 2014	Building Construction	11/1/2014	11/30/2014	5	20	
2	Building Systems Crew - Dec 2014	Building Construction	12/1/2014	12/31/2014	5	23	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Systems Crew - Nov 2014	Cranes	1	8.00	125	0.31
Building Systems Crew - Nov 2014	Forklifts	3	8.00	50	0.31
Building Systems Crew - Nov 2014	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Nov 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Nov 2014	Welders	0	8.00	46	0.45
Building Systems Crew - Dec 2014	Cranes	2	8.00	125	0.31
Building Systems Crew - Dec 2014	Forklifts	6	8.00	50	0.31
Building Systems Crew - Dec 2014	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Dec 2014	Welders	0	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
Building Systems Crew Nov 2014	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Systems Crew Dec 2014	8	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Building Systems Crew - Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.2755	10.7147	8.6909	7.7600e-003		0.8506	0.8506		0.7826	0.7826		826.7121	826.7121	0.2443		831.8425
Total	2.2755	10.7147	8.6909	7.7600e-003		0.8506	0.8506		0.7826	0.7826		826.7121	826.7121	0.2443		831.8425

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8137	6.5053	8.5246	7.7500e-003		0.5493	0.5493		0.5062	0.5062	0.0000	825.9537	825.9537	0.2441		831.0793
Total	1.8137	6.5053	8.5246	7.7500e-003		0.5493	0.5493		0.5062	0.5062	0.0000	825.9537	825.9537	0.2441		831.0793

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

3.3 Building Systems Crew - Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	4.5511	21.4295	17.3818	0.0155		1.7012	1.7012		1.5651	1.5651		1,653.4242	1,653.4242	0.4886		1,663.6849
Total	4.5511	21.4295	17.3818	0.0155		1.7012	1.7012		1.5651	1.5651		1,653.4242	1,653.4242	0.4886		1,663.6849

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857	356.3825	356.3825	0.0203		356.8085
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	3.6274	13.0106	17.0493	0.0155		1.0985	1.0985		1.0125	1.0125	0.0000	1,651.9073	1,651.9073	0.4882		1,662.1586
Total	3.6274	13.0106	17.0493	0.0155		1.0985	1.0985		1.0125	1.0125	0.0000	1,651.9073	1,651.9073	0.4882		1,662.1586

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

LAX West Aircraft Maintenance Area Project - Building Systems Crew 2014
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	20.00
tblConstructionPhase	NumDays	1,110.00	23.00
tblConstructionPhase	PhaseEndDate	11/28/2014	11/30/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	125.00
tblOffRoadEquipment	HorsePower	89.00	50.00
tblOffRoadEquipment	HorsePower	226.00	125.00
tblOffRoadEquipment	HorsePower	89.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	28.00

tbTripsAndVMT	WorkerTripNumber	53.00	28.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	5.3250	21.6278	19.4486	0.0192	0.3130	1.7042	2.0172	0.0830	1.5678	1.6508	0.0000	1,987.799	1,987.799	0.5089	0.0000	1,998.4862
Total	5.3250	21.6278	19.4486	0.0192	0.3130	1.7042	2.0172	0.0830	1.5678	1.6508	0.0000	1,987.799	1,987.799	0.5089	0.0000	1,998.4862

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.4012	13.2089	19.1161	0.0192	0.3130	1.1015	1.4144	0.0830	1.0152	1.0982	0.0000	1,986.282	1,986.282	0.5084	0.0000	1,996.9599
Total	4.4012	13.2089	19.1161	0.0192	0.3130	1.1015	1.4144	0.0830	1.0152	1.0982	0.0000	1,986.282	1,986.282	0.5084	0.0000	1,996.9599

	ROG	NOx	CO	SO2	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	17.3472	38.9262	1.7100	0.1040	0.0000	35.3681	29.8805	0.0000	35.2510	33.4787	0.0000	0.0763	0.0763	0.0884	0.0000	0.0764

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	iBuilding Systems Crew - Nov 2014	iBuilding Construction	11/1/2014	11/30/2014	51	201	

2	Building Systems Crew - Dec 2014	Building Construction	12/1/2014	5	23
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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Systems Crew - Nov 2014	Cranes	1	8.00	125	0.31
Building Systems Crew - Nov 2014	Forklifts	3	8.00	50	0.31
Building Systems Crew - Nov 2014	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Nov 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Nov 2014	Welders	0	8.00	46	0.45
Building Systems Crew - Dec 2014	Cranes	2	8.00	125	0.31
Building Systems Crew - Dec 2014	Forklifts	6	8.00	50	0.31
Building Systems Crew - Dec 2014	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Dec 2014	Welders	0	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
Building Systems Crew, Nov 2014	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Systems Crew, Dec 2014	8	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Building Systems Crew - Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857	334.3753	334.3753	0.0203	334.8013	334.8013	0.0203	334.8013	334.8013	334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857	334.3753	334.3753	0.0203	334.8013	334.8013	0.0203	334.8013	334.8013	334.8013

3.3 Building Systems Crew - Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	4.5511	21.4295	17.3818	0.0155	1.7012	1.7012	1.7012	1.5651	1.5651	1.5651	1,653.424	1,653.424	1,653.424	0.4886	2	1,663.6849
Total	4.5511	21.4295	17.3818	0.0155	1.7012	1.7012	1.7012	1.5651	1.5651	1.5651	1,653.424	1,653.424	1,653.424	0.4886	2	1,663.6849

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
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	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857	334.3753	334.3753	334.3753	0.0203	334.8013	334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857	334.3753	334.3753	334.3753	0.0203	334.8013	334.8013

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
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Category	lb/day										lb/day		
Off-Road	3.6274	13.0106	17.0493	0.0155	1.0985	1.0985	1.0125	1.0125	0.0000	1,651.907	1,651.907	0.4882	1,662.1586
										3	3		
Total	3.6274	13.0106	17.0493	0.0155	1.0985	1.0985	1.0125	1.0125	0.0000	1,651.907	1,651.907	0.4882	1,662.1586
										3	3		

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	23.00
tblGrading	AcresOfGrading	0.00	68.00
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	255.00	350.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	7.6053	83.3247	61.5551	0.0567	27.4473	3.7721	31.2194	13.6388	3.4703	17.1091	0.0000	5,971.6529	5,971.6529	1.7040	0.0000	16,007.4359
Total	7.6053	83.3247	61.5551	0.0567	27.4473	3.7721	31.2194	13.6388	3.4703	17.1091	0.0000	5,971.6529	5,971.6529	1.7040	0.0000	16,007.4359

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.7751	25.4502	29.9692	0.0566	10.8408	0.1462	10.9870	5.3553	0.1853	5.5406	0.0000	5,966.4078	5,966.4078	1.7024	0.0000	16,002.1582
Total	1.7751	25.4502	29.9692	0.0566	10.8408	0.1462	10.9870	5.3553	0.1853	5.5406	0.0000	5,966.4078	5,966.4078	1.7024	0.0000	16,002.1582

	ROG	NOx	CO	SO2	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	76.6603	69.4565	51.3131	0.0882	60.5032	96.1247	64.8071	60.7348	94.6607	67.6162	0.0000	0.0878	0.0878	0.0910	0.0000	0.0879

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clean and Grub Crew - Jan 2014	Site Preparation	1/1/2014	1/31/2014	5	23	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clean and Grub Crew - Jan 2014	Rubber Tired Dozers	4	8.00	350	0.38
Clean and Grub Crew - Jan 2014	Tractors/Loaders/Backhoes	1	8.00	230	0.38

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
Clean and Grub Crew -1	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	iHDT
Jan 2014										

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area

3.2 Clean and Grub Crew - Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					27.2237	0.0000	27.2237	13.5795	0.0000	13.5795			0.0000			0.0000
Off-Road	7.1400	83.1957	59.9631	0.0539		3.7700	3.7700		3.4684	3.4684		5,717.094	5,717.094	1.6895		5,752.5727
Total	7.1400	83.1957	59.9631	0.0539	27.2237	3.7700	30.9937	13.5795	3.4684	17.0478		5,717.094	5,717.094	1.6895		5,752.5727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4653	0.1290	1.5920	2.8300e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	254.5589	254.5589	0.0145	254.8632	254.8632	0.0145	254.8632	254.8632	0.0000
Total	0.4653	0.1290	1.5920	2.8300e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	254.5589	254.5589	0.0145	254.8632	254.8632	0.0145	254.8632	254.8632	0.0000

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
Fugitive Dust					10.6173	0.0000	10.6173	5.2960	0.0000	5.2960			0.0000			0.0000
Off-Road	1.3097	25.3212	28.3772	0.0538		0.1441	0.1441		0.1834	0.1834	0.0000	5,711.8489	5,711.8489	1.6879		15,747.2951
Total	1.3097	25.3212	28.3772	0.0538	10.6173	0.1441	10.7613	5.2960	0.1834	5.4794	0.0000	5,711.8489	5,711.8489	1.6879		5,747.2951

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
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
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
Worker	0.4653	0.1290	1.5920	2.8300e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	254.5589	254.5589	254.5589	0.0145		254.8632
Total	0.4653	0.1290	1.5920	2.8300e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	254.5589	254.5589	254.5589	0.0145		254.8632

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	23.00
tblGrading	AcresOfGrading	0.00	68.00
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	255.00	350.00
tblOffRoadEquipment	HorsePower	97.00	230.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	7.6928	83.3374	61.4394	0.0565	27.4473	3.7721	31.2194	13.6388	3.4703	17.1091	0.0000	5,955.933	5,955.933	1.7040	0.0000	15,991.7165
												5	5			
Total	7.6928	83.3374	61.4394	0.0565	27.4473	3.7721	31.2194	13.6388	3.4703	17.1091	0.0000	5,955.933	5,955.933	1.7040	0.0000	5,991.7165
												5	5			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.8625	25.4629	29.8535	0.0565	10.8408	0.1462	10.9870	5.3553	0.1853	5.5406	0.0000	5,950.688	5,950.688	1.7024	0.0000	15,986.4388
Total	1.8625	25.4629	29.8535	0.0565	10.8408	0.1462	10.9870	5.3553	0.1853	5.5406	0.0000	5,950.688	5,950.688	1.7024	0.0000	5,986.4388

	ROG	NOx	CO	SO2	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	75.7891	69.4460	51.4098	0.0885	60.5032	96.1247	64.8071	60.7348	94.6607	67.6162	0.0000	0.0881	0.0881	0.0910	0.0000	0.0881

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clean and Grub Crew - Jan 2014	Site Preparation	1/1/2014	1/31/2014	5	23	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clean and Grub Crew - Jan 2014	Rubber Tired Dozers	4	8.00	350	0.38
Clean and Grub Crew - Jan 2014	Tractors/Loaders/Backhoes	1	8.00	230	0.38

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
Clean and Grub Crew -1	5	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	iHDT
Jan 2014										

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area

3.2 Clean and Grub Crew - Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					27.2237	0.0000	27.2237	13.5795	0.0000	13.5795			0.0000			0.0000
Off-Road	7.1400	83.1957	59.9631	0.0539		3.7700	3.7700		3.4684	3.4684		5,717.094	5,717.094	1.6895		5,752.5727
Total	7.1400	83.1957	59.9631	0.0539	27.2237	3.7700	30.9937	13.5795	3.4684	17.0478		5,717.094	5,717.094	1.6895		5,752.5727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.5528	0.1417	1.4763	2.6600e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	238.8395	238.8395	0.0145	239.1438	239.1438	239.1438	239.1438
Total	0.5528	0.1417	1.4763	2.6600e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	238.8395	238.8395	0.0145	239.1438	239.1438	239.1438	239.1438

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
Fugitive Dust					10.6173	0.0000	10.6173	5.2960	0.0000	5.2960			0.0000			0.0000
Off-Road	1.3097	25.3212	28.3772	0.0538		0.1441	0.1441		0.1834	0.1834	0.0000	5,711.8489	5,711.8489	1.6879		15,747.2951
Total	1.3097	25.3212	28.3772	0.0538	10.6173	0.1441	10.7613	5.2960	0.1834	5.4794	0.0000	5,711.8489	5,711.8489	1.6879		5,747.2951

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
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
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
Worker	0.5528	0.1417	1.4763	2.6600e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	238.8395	238.8395	0.0145	239.1438	239.1438	239.1438
Total	0.5528	0.1417	1.4763	2.6600e-003	0.2236	2.1100e-003	0.2257	0.0593	1.9300e-003	0.0612	238.8395	238.8395	0.0145	239.1438	239.1438	239.1438

LAX West Aircraft Maintenance Area Project – Crusher Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	20.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	475.00
tblOffRoadEquipment	HorsePower	89.00	450.00
tblOffRoadEquipment	LoadFactor	0.29	0.37
tblOffRoadEquipment	LoadFactor	0.20	0.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	6.5308	78.2117	52.8537	0.0616	0.0894	3.3997	3.4892	0.0237	3.1278	3.1515	0.0000	6,513.158	6,513.158	1.9004	0.0000	6,553.0667
Total	6.5308	78.2117	52.8537	0.0616	0.0894	3.3997	3.4892	0.0237	3.1278	3.1515	0.0000	6,513.158	6,513.158	1.9004	0.0000	6,553.0667

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day														lb/day	
2014	1.6716	28.7700	32.8212	0.0615	0.0894	0.1642	0.2537	0.0237	0.2087	0.2325	0.0000	6,507.276	6,507.276	1.8987	0.0000	6,547.1482

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	74.4048	63.2153	37.9018	0.0975	0.0000	95.1690	92.7300	0.0000	93.3265	92.6241	0.0000	0.0903	0.0903	0.0916	0.0000	0.0903

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Crusher Crew 2014	Site Preparation	12/1/2014	12/28/2014	5	20	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Crusher Crew 2014	Rubber Tired Dozers	0	8.00	255	0.40
Crusher Crew 2014	Generator Sets	0	8.00	84	0.74
Crusher Crew 2014	Cranes	2	8.00	475	0.37
Crusher Crew 2014	Forklifts	1	8.00	450	0.78
Crusher Crew 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Crusher Crew 2014	Welders	0	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
Crusher Crew 2014	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use DPF for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Crusher Crew 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	6.3447	78.1601	52.2169	0.0604	3.3989	3.3989	3.3989	3.1270	3.1270	3.1270		6,411.3345	6,411.3345	1.8946		6,451.1215
Total	6.3447	78.1601	52.2169	0.0604	0.0000	3.3989	3.3989	0.0000	3.1270	3.1270		6,411.3345	6,411.3345	1.8946		6,451.1215

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.4854	28.7184	32.1844	0.0604		0.1634	0.1634		0.2080	0.2080	0.0000	6,405.4524	6,405.4524	1.8929		6,445.2029
Total	1.4854	28.7184	32.1844	0.0604	0.0000	0.1634	0.1634	0.0000	0.2080	0.2080	0.0000	6,405.4524	6,405.4524	1.8929		6,445.2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

LAX West Aircraft Maintenance Area Project – Crusher Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "CAT 988 Loaders". "Forklifts" = "Crusher".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	20.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	475.00
tblOffRoadEquipment	HorsePower	89.00	450.00
tblOffRoadEquipment	LoadFactor	0.29	0.37
tblOffRoadEquipment	LoadFactor	0.20	0.78
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	Operational Year	2014	2018

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	6.5658	78.2168	52.8074	0.0615	0.0894	3.3997	3.4892	0.0237	3.1278	3.1515	0.0000	6,506.870	6,506.870	1.9004	0.0000	6,546.7790
												3	3			
Total	6.5658	78.2168	52.8074	0.0615	0.0894	3.3997	3.4892	0.0237	3.1278	3.1515	0.0000	6,506.870	6,506.870	1.9004	0.0000	6,546.7790
												3	3			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.7065	28.7751	32.7749	0.0614	0.0894	0.1642	0.2537	0.0237	0.2087	0.2325	0.0000	6,500.988	6,500.988	1.8987	0.0000	6,540.8604
												2	2			

Total	1.7065	28.7751	32.7749	0.0614	0.0894	0.1642	0.2537	0.0237	0.2087	0.2325	0.0000	6,500.988 2	6,500.988 2	1.8987	0.0000	6,540.8604
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	74.0085	63.2112	37.9350	0.0976	0.0000	95.1690	92.7300	0.0000	93.3265	92.6241	0.0000	0.0904	0.0904	0.0916	0.0000	0.0904

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Crusher Crew 2014	Site Preparation	2/1/2014	2/28/2014	5	20	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Crusher Crew 2014	Rubber Tired Dozers	0	8.00	255	0.40
Crusher Crew 2014	Generator Sets	0	8.00	84	0.74
Crusher Crew 2014	Cranes	2	8.00	475	0.37
Crusher Crew 2014	Forklifts	1	8.00	450	0.78
Crusher Crew 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Crusher Crew 2014	Welders	0	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
Crusher Crew 2014	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Crusher Crew 2014 - 2014**Unmitigated Construction On-Site****Acres of Grading: 0**

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	6.3447	78.1601	52.2169	0.0604		3.3989	3.3989		3.1270	3.1270		6,411.3345	6,411.3345	1.8946		6,451.1215
Total	6.3447	78.1601	52.2169	0.0604	0.0000	3.3989	3.3989	0.0000	3.1270	3.1270		6,411.3345	6,411.3345	1.8946		6,451.1215

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
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	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	1.4854	28.7184	32.1844	0.0604	0.1634	0.2080	0.2080	0.0000	6,405.4524	1,8929	6,445.2029
Total	1.4854	28.7184	32.1844	0.0604	0.1634	0.2080	0.2080	0.0000	6,405.4524	1,8929	6,445.2029

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										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

LAX West Aircraft Maintenance Area Project - Demolition Crew 2014
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Air Compressor; Excavator; "Rubber Tired Dozer" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Demolition -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	PhaseEndDate	3/5/2014	1/31/2014
tblConstructionPhase	PhaseStartDate	2/1/2014	1/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	81.00	170.00
tblOffRoadEquipment	HorsePower	162.00	247.00
tblOffRoadEquipment	HorsePower	162.00	350.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	LoadFactor	0.73	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	Operational Year	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	11.0484	132.7197	73.3662	0.1501	0.3353	5.0845	5.4199	0.0889	4.7040	4.7929	0.0000	15,745.64	15,745.64	4.3864	0.0000	15,837.758
Total	11.0484	132.7197	73.3662	0.1501	0.3353	5.0845	5.4199	0.0889	4.7040	4.7929	0.0000	15,745.64	15,745.64	4.3864	0.0000	15,837.758
												34	34			1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.2405	68.6810	80.7229	0.1500	0.3353	0.3980	0.7333	0.0889	0.4988	0.5878	0.0000	15,731.54	15,731.54	4.3824	0.0000	15,823.578
Total	4.2405	68.6810	80.7229	0.1500	0.3353	0.3980	0.7333	0.0889	0.4988	0.5878	0.0000	15,731.54	15,731.54	4.3824	0.0000	15,823.578
												79	79			6

	ROG	NOx	CO	SO2	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	61.6191	48.2511	-10.0274	0.0866	0.0000	92.1722	86.4694	0.0000	89.3956	87.7370	0.0000	0.0895	0.0895	0.0914	0.0000	0.0895

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 Crew pt. 1- Jan 2014	Demolition	1/1/2014	1/31/2014	5	23	
2	Demolition Crew pt. 2 - Jan 2014	Demolition	1/1/2014	1/31/2014	5	23	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Crew pt. 1- Jan 2014	Concrete/Industrial Saws	1	8.00	170	0.48
Demolition Crew pt. 1- Jan 2014	Excavators	2	8.00	247	0.38

Demolition Crew pt. 1- Jan 2014	Rubber Tired Dozers	2	8.00	475	0.36
Demolition Crew pt. 2 - Jan 2014	Concrete/Industrial Saws	0	8.00	81	0.38
Demolition Crew pt. 2 - Jan 2014	Excavators	8	8.00	350	0.38
Demolition Crew pt. 2 - Jan 2014	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition Crew pt. 1- Jan 2014	5	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Crew pt. 2 - Jan 2014	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Demolition Crew pt. 1- Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	5.9842	69.6076	46.0722	0.0546		3.0538	3.0538		2.8358	2.8358		5,695.409	5,695.409	1.5076		5,727.0680
Total	5.9842	69.6076	46.0722	0.0546		3.0538	3.0538		2.8358	2.8358		5,695.409	5,695.409	1.5076		5,727.0680

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
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Category	lb/day										lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918	381.8383	381.8383	0.0217	382.2948	382.2948
Total	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918	381.8383	381.8383	0.0217	382.2948	382.2948

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.2926	24.9909	29.5887	0.0545		0.1474	0.1474		0.1810	0.1810	0.0000	5,690.1839	5,690.1839	1.5062		5,721.8137
Total	1.2926	24.9909	29.5887	0.0545		0.1474	0.1474		0.1810	0.1810	0.0000	5,690.1839	5,690.1839	1.5062		5,721.8137

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948
Total	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948

3.3 Demolition Crew pt. 2 - Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.3662	62.9185	24.9060	0.0913		2.0276	2.0276		1.8654	1.8654		9,668.395	9,668.395	2.8571		9,728.3954
												9	9			
Total	4.3662	62.9185	24.9060	0.0913		2.0276	2.0276		1.8654	1.8654		9,668.395	9,668.395	2.8571		9,728.3954
												9	9			

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2498	43.4966	48.7462	0.0912		0.2475	0.2475		0.3150	0.3150	0.0000	9,659.525	9,659.525	2.8545		9,719.4701
												7	7			
Total	2.2498	43.4966	48.7462	0.0912		0.2475	0.2475		0.3150	0.3150	0.0000	9,659.525	9,659.525	2.8545		9,719.4701
												7	7			

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

[illegible]

LAX West Aircraft Maintenance Area Project - Demolition Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Air Compressor; Excavator; "Rubber Tired Dozer" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Demolition -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	NumDays	70.00	23.00
tblConstructionPhase	PhaseEndDate	3/5/2014	1/31/2014
tblConstructionPhase	PhaseStartDate	2/1/2014	1/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	81.00	170.00
tblOffRoadEquipment	HorsePower	162.00	247.00
tblOffRoadEquipment	HorsePower	162.00	350.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	LoadFactor	0.73	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	11.1796	132.7387	73.1926	0.1498	0.3353	5.0845	5.4199	0.0889	4.7040	4.7929	0.0000	15,722.06	15,722.06	4.3864	0.0000	15,814.179
												43	43			0
Total	11.1796	132.7387	73.1926	0.1498	0.3353	5.0845	5.4199	0.0889	4.7040	4.7929	0.0000	15,722.06	15,722.06	4.3864	0.0000	15,814.179
												43	43			0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.3716	68.7000	80.5493	0.1497	0.3353	0.3980	0.7333	0.0889	0.4988	0.5878	0.0000	15,707.96	15,707.96	4.3824	0.0000	15,799.999
												88	88			4
Total	4.3716	68.7000	80.5493	0.1497	0.3353	0.3980	0.7333	0.0889	0.4988	0.5878	0.0000	15,707.96	15,707.96	4.3824	0.0000	15,799.999
												88	88			4

	ROG	NOx	CO	SO2	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	60.8963	48.2441	-10.0511	0.0868	0.0000	92.1722	86.4694	0.0000	89.3956	87.7370	0.0000	0.0897	0.0897	0.0914	0.0000	0.0897

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 Crew pt. 1- Jan 2014	Demolition	1/1/2014	1/31/2014	5	23	
2	Demolition Crew pt. 2 - Jan 2014	Demolition	1/1/2014	1/31/2014	5	23	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Crew pt. 1- Jan 2014	Concrete/Industrial Saws	1	8.00	170	0.48
Demolition Crew pt. 1- Jan 2014	Excavators	2	8.00	247	0.38
Demolition Crew pt. 1- Jan 2014	Rubber Tired Dozers	2	8.00	475	0.36
Demolition Crew pt. 2 - Jan 2014	Concrete/Industrial Saws	0	8.00	81	0.38
Demolition Crew pt. 2 - Jan 2014	Excavators	8	8.00	350	0.38
Demolition Crew pt. 2 - Jan 2014	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition Crew pt. 1- Jan 2014	5	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Crew pt. 2 - Jan 2014	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Demolition Crew pt. 1- Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	5.9842	69.6076	46.0722	0.0546		3.0538	3.0538		2.8358	2.8358		5.695.409	5.695.409	1.5076		5,727.0680
Total	5.9842	69.6076	46.0722	0.0546		3.0538	3.0538		2.8358	2.8358		5.695.409	5.695.409	1.5076		5,727.0680

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156
Total	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2926	24.9909	29.5887	0.0545		0.1474	0.1474		0.1810	0.1810	0.0000	5,690.1839	5,690.1839	1.5062		5,721.8137
Total	1.2926	24.9909	29.5887	0.0545		0.1474	0.1474		0.1810	0.1810	0.0000	5,690.1839	5,690.1839	1.5062		5,721.8137

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156
Total	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156

3.3 Demolition Crew pt. 2 - Jan 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	4.3662	62.9185	24.9060	0.0913		2.0276	2.0276		1.8654	1.8654		9,668.3959	9,668.3959	2.8571		9,728.3954
Total	4.3662	62.9185	24.9060	0.0913		2.0276	2.0276		1.8654	1.8654		9,668.3959	9,668.3959	2.8571		9,728.3954

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.2498	43.4966	48.7462	0.0912		0.2475	0.2475		0.3150	0.3150	0.0000	9,659.5257	9,659.5257	2.8545		9,719.4701
Total	2.2498	43.4966	48.7462	0.0912		0.2475	0.2475		0.3150	0.3150	0.0000	9,659.5257	9,659.5257	2.8545		9,719.4701

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Drainage Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblConstructionPhase	PhaseEndDate	10/30/2014	8/31/2014
tblConstructionPhase	PhaseStartDate	9/1/2014	7/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	4.8822	55.0733	29.1192	0.0447	0.1788	2.3769	2.5557	0.0474	2.2032	2.2506	0.0000	4,644.5713	4,644.5713	1.2025	0.0000	14,669.8242
Total	4.8822	55.0733	29.1192	0.0447	0.1788	2.3769	2.5557	0.0474	2.2032	2.2506	0.0000	4,644.5713	4,644.5713	1.2025	0.0000	4,669.8242

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day													lb/day		
2014	1.3905	19.7895	24.4038	0.0447	0.1788	0.1172	0.2960	0.0474	0.1441	0.1915	0.0000	4,640.497	4,640.497	1.2014	0.0000	4,665.7270
Total	1.3905	19.7895	24.4038	0.0447	0.1788	0.1172	0.2960	0.0474	0.1441	0.1915	0.0000	4,640.497	4,640.497	1.2014	0.0000	4,665.7270

	ROG	NOx	CO	SO2	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	71.5186	64.0670	16.1935	0.0894	0.0000	95.0695	88.4169	0.0000	93.4595	91.4899	0.0000	0.0877	0.0877	0.0906	0.0000	0.0877

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Drainage Crew pt.1 - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	
2	Drainage Crew pt.2 - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Drainage Crew pt.1 - Jul-Aug 2014	Cranes	1	8.00	247	0.38
Drainage Crew pt.1 - Jul-Aug 2014	Forklifts	1	8.00	235	0.36
Drainage Crew pt.1 - Jul-Aug 2014	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.1 - Jul-Aug 2014	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.1 - Jul-Aug 2014	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Jul-Aug 2014	Cranes	2	8.00	350	0.31
Drainage Crew pt.2 - Jul-Aug 2014	Forklifts	0	8.00	89	0.20
Drainage Crew pt.2 - Jul-Aug 2014	Generator Sets	0	8.00	84	0.74
Drainage Crew pt.2 - Jul-Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.2 - Jul-Aug 2014	Welders	0	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
Drainage Crew pt.1 - Jul-Aug 2014	4	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Crew pt.2 - Jul-Aug 2014	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Drainage Crew pt.1 - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.6619	30.9958	11.8590	0.0238		1.3817	1.3817		1.2876	1.2876		2,463.862	2,463.862	0.6067		2,476.6028
Total	2.6619	30.9958	11.8590	0.0238		1.3817	1.3817		1.2876	1.2876		2,463.862	2,463.862	0.6067		2,476.6028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3723	0.1032	1.2736	2.2700e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		203.6471	203.6471	0.0116		203.8906

Total	0.3723	0.1032	1.2736	2.2700e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490	203.6471	203.6471	0.0116	203.8906
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.5594	10.8153	13.1886	0.0238		0.0650	0.0650		0.0783	0.0783	0.0000	2,461.602	2,461.602	0.6061		2,474.3307
Total	0.5594	10.8153	13.1886	0.0238		0.0650	0.0650		0.0783	0.0783	0.0000	2,461.602	2,461.602	0.6061		2,474.3307

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3723	0.1032	1.2736	2.2700e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		203.6471	203.6471	0.0116		203.8906
Total	0.3723	0.1032	1.2736	2.2700e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		203.6471	203.6471	0.0116		203.8906

3.3 Drainage Crew pt.2 - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8481	23.9743	15.9866	0.0186		0.9935	0.9935		0.9140	0.9140		1,977.061	1,977.061	0.5842		1,989.3309

Total	1.8481	23.9743	15.9866	0.0186	0.9935	0.9140	0.9140	1,977.0618	0.5842	1,989.3309
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4589	8.8710	9.9417	0.0186		0.0505	0.0505		0.0642	0.0642	0.0000	1,975.2479	1,975.2479	0.5837		1,987.5058
Total	0.4589	8.8710	9.9417	0.0186		0.0505	0.0505		0.0642	0.0642	0.0000	1,975.2479	1,975.2479	0.5837		1,987.5058

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Drainage Crew 2014
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck.

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblConstructionPhase	PhaseEndDate	10/30/2014	8/31/2014
tblConstructionPhase	PhaseStartDate	9/1/2014	7/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2014	1.4605	19.7996	24.3113	0.0446	0.1788	0.1172	0.2960	0.0474	0.1441	0.1915	0.0000	4,627.921	4,627.921	1,2014	0.0000	4,653.1514
Total	1.4605	19.7996	24.3113	0.0446	0.1788	0.1172	0.2960	0.0474	0.1441	0.1915	0.0000	4,627.921	4,627.921	1,2014	0.0000	4,653.1514

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	70.5083	64.0562	16.2451	0.0897	0.0000	95.0695	88.4169	0.0000	93.4595	91.4899	0.0000	0.0880	0.0880	0.0906	0.0000	0.0880

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Drainage Crew pt.1 - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	
2	Drainage Crew pt.2 - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Drainage Crew pt.1 - Jul-Aug 2014	Cranes	1	8.00	247	0.38
Drainage Crew pt.1 - Jul-Aug 2014	Forklifts	1	8.00	235	0.36
Drainage Crew pt.1 - Jul-Aug 2014	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.1 - Jul-Aug 2014	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.1 - Jul-Aug 2014	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Jul-Aug 2014	Cranes	2	8.00	350	0.31
Drainage Crew pt.2 - Jul-Aug 2014	Forklifts	0	8.00	89	0.20
Drainage Crew pt.2 - Jul-Aug 2014	Generator Sets	0	8.00	84	0.74
Drainage Crew pt.2 - Jul-Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.2 - Jul-Aug 2014	Welders	0	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
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Drainage Crew pt.1 - Jul-Aug 2014	4	16.00	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	I-HDT
Drainage Crew pt.2 - Jul-Aug 2014	2	0.00	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	I-HDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Drainage Crew pt.1 - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.6619	30.9958	11.8590	0.0238		1.3817	1.3817		1.2876	1.2876		2.463.8625	2,463.8625	0.6067		2,476.6028
Total	2.6619	30.9958	11.8590	0.0238		1.3817	1.3817		1.2876	1.2876		2,463.8625	2,463.8625	0.6067		2,476.6028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4422	0.1133	1.1810	2.1200e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		191.0716	191.0716	0.0116		191.3150
Total	0.4422	0.1133	1.1810	2.1200e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		191.0716	191.0716	0.0116		191.3150

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.5594	10.8153	13.1886	0.0238		0.0650	0.0650		0.0783	0.0783	0.0000	2,461.602	2,461.602	0.6061		2,474.3307
Total	0.5594	10.8153	13.1886	0.0238		0.0650	0.0650		0.0783	0.0783	0.0000	2,461.602	2,461.602	0.6061		2,474.3307

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4422	0.1133	1.1810	2.1200e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		191.0716	191.0716	0.0116		191.3150
Total	0.4422	0.1133	1.1810	2.1200e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5400e-003	0.0490		191.0716	191.0716	0.0116		191.3150

3.3 Drainage Crew pt.2 - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8481	23.9743	15.9866	0.0186		0.9935	0.9935		0.9140	0.9140		1,977.061	1,977.061	0.5842		1,989.3309
Total	1.8481	23.9743	15.9866	0.0186		0.9935	0.9935		0.9140	0.9140		1,977.061	1,977.061	0.5842		1,989.3309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4589	8.8710	9.9417	0.0186		0.0505	0.0505		0.0642	0.0642	0.0000	1,975.2479	1,975.2479	0.5837		1,987.5058
Total	0.4589	8.8710	9.9417	0.0186		0.0505	0.0505		0.0642	0.0642	0.0000	1,975.2479	1,975.2479	0.5837		1,987.5058

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project – Electrical Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher".

"Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	153.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	89.00	60.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	LoadFactor	0.20	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.9218	6.6979	4.8682	6.3700e-003	0.0894	0.5419	0.6313	0.0237	0.4985	0.5222	0.0000	658.1592	658.1592	0.1702	0.0000	661.7333
Total	0.9218	6.6979	4.8682	6.3700e-003	0.0894	0.5419	0.6313	0.0237	0.4985	0.5222	0.0000	658.1592	658.1592	0.1702	0.0000	661.7333

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.3145	2.9827	4.5949	6.3700e-003	0.0894	0.0291	0.1185	0.0237	0.0264	0.0502	0.0000	657.6488	657.6488	0.1701	0.0000	661.2198
Total	0.3145	2.9827	4.5949	6.3700e-003	0.0894	0.0291	0.1185	0.0237	0.0264	0.0502	0.0000	657.6488	657.6488	0.1701	0.0000	661.2198

	ROG	NOx	CO	SO2	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	65.8813	55.4673	5.6136	0.0000	0.0000	94.6388	81.2318	0.0000	94.6962	90.3949	0.0000	0.0776	0.0776	0.0881	0.0000	0.0776

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Electrical Crew 2014	Building Construction	6/1/2014	12/31/2014	5	153	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Electrical Crew 2014	Cranes	0	7.00	226	0.29
Electrical Crew 2014	Forklifts	1	8.00	60	0.50
Electrical Crew 2014	Generator Sets	0	8.00	84	0.74
Electrical Crew 2014	Welders	0	8.00	46	0.45
Electrical Crew 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Electrical Crew 2014	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Electrical Crew 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.7357	6.6463	4.2314	5.2400e-003		0.5410	0.5410		0.4977	0.4977		556.3356	556.3356	0.1644		559.7881
Total	0.7357	6.6463	4.2314	5.2400e-003		0.5410	0.5410		0.4977	0.4977		556.3356	556.3356	0.1644		559.7881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Off-Road	0.1284	2.9311	3.9581	5.2300e-003	0.0282	0.0257	0.0257	0.0000	555.8252	555.8252	0.1643			559.2745
Total	0.1284	2.9311	3.9581	5.2300e-003	0.0282	0.0257	0.0257	0.0000	555.8252	555.8252	0.1643			559.2745

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

LAX West Aircraft Maintenance Area Project – Electrical Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher".
"Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher".
"Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	153.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	89.00	60.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	LoadFactor	0.20	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.9568	6.7029	4.8219	6.3000e-003	0.0894	0.5419	0.6313	0.0237	0.4985	0.5222	0.0000	651.8714	651.8714	0.1702	0.0000	655.4456
Total	0.9568	6.7029	4.8219	6.3000e-003	0.0894	0.5419	0.6313	0.0237	0.4985	0.5222	0.0000	651.8714	651.8714	0.1702	0.0000	655.4456

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	0.3495	2.9878	4.5486	6.3000e-003	0.0894	0.0291	0.1185	0.0237	0.0264	0.0502	0.0000	651.3610	651.3610	0.1701	0.0000	654.9320
Total	0.3495	2.9878	4.5486	6.3000e-003	0.0894	0.0291	0.1185	0.0237	0.0264	0.0502	0.0000	651.3610	651.3610	0.1701	0.0000	654.9320

	ROG	NOx	CO	SO2	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	63.4733	55.4253	5.6675	0.0000	0.0000	94.6388	81.2318	0.0000	94.6962	90.3949	0.0000	0.0783	0.0783	0.0881	0.0000	0.0784

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Electrical Crew 2014	Building Construction	6/1/2014	12/31/2014	5	153	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Electrical Crew 2014	Cranes	0	7.00	226	0.29
Electrical Crew 2014	Forklifts	1	8.00	60	0.50
Electrical Crew 2014	Generator Sets	0	8.00	84	0.74
Electrical Crew 2014	Welders	0	8.00	46	0.45
Electrical Crew 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Electrical Crew 2014	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Electrical Crew 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.7357	6.6463	4.2314	5.2400e-003		0.5410	0.5410		0.4977	0.4977		556.3356	556.3356	0.1644		559.7881
Total	0.7357	6.6463	4.2314	5.2400e-003		0.5410	0.5410		0.4977	0.4977		556.3356	556.3356	0.1644		559.7881

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day		
Off-Road	0.1284	2.9311	3.9581	5.2300e-003	0.0282	0.0282	0.0257	0.0257	0.0000	555.8252	555.8252	0.1643	559.2745
Total	0.1284	2.9311	3.9581	5.2300e-003	0.0282	0.0282	0.0257	0.0257	0.0000	555.8252	555.8252	0.1643	559.2745

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
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	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

LAX West Aircraft Maintenance Area Project - Excavation Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips).

Grading - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	106.00
tblGrading	AcresOfGrading	901.00	84.00
tblGrading	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	HorsePower	255.00	247.00
tblOffRoadEquipment	HorsePower	361.00	350.00
tblOffRoadEquipment	LoadFactor	0.41	0.37
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014

tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOnRoadDust	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	12.6212	152.3442	86.6037	0.1193	13.1975	6.3047	19.5022	6.7942	5.8003	12.5945	0.0000	12,587.71	12,587.71	3.6348	0.0000	12,664.043
												35	35			8
Total	12.6212	152.3442	86.6037	0.1193	13.1975	6.3047	19.5022	6.7942	5.8003	12.5945	0.0000	12,587.71	12,587.71	3.6348	0.0000	12,664.043
												35	35			8

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.4821	54.9058	63.5587	0.1191	5.3380	0.3143	5.6523	2.7004	0.3990	3.0994	0.0000	12,576.49	12,576.49	3.6315	0.0000	12,652.752
												19	19			6
Total	3.4821	54.9058	63.5587	0.1191	5.3380	0.3143	5.6523	2.7004	0.3990	3.0994	0.0000	12,576.49	12,576.49	3.6315	0.0000	12,652.752
												19	19			6

	ROG	NOx	CO	SO2	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	72.4107	63.9594	26.6097	0.0922	59.5534	95.0145	71.0173	60.2548	93.1214	75.3912	0.0000	0.0891	0.0891	0.0913	0.0000	0.0892

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation Crew - Feb-Jun 2014	Grading	2/1/2014	6/30/2014	5	106	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation Crew - Feb-Jun 2014	Excavators	0	8.00	162	0.38
Excavation Crew - Feb-Jun 2014	Graders	1	8.00	235	0.37
Excavation Crew - Feb-Jun 2014	Rubber Tired Dozers	2	8.00	247	0.38
Excavation Crew - Feb-Jun 2014	Scrapers	8	8.00	350	0.38
Excavation Crew - Feb-Jun 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Excavation Crew - Feb-Jun 2014	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Excavation Crew - Feb-Jun 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					12.8846	0.0000	12.8846	6.7112	0.0000	6.7112			0.0000			0.0000
Off-Road	11.9697	152.1636	84.3750	0.1153		6.3017	6.3017		5.7976	5.7976		12,231.33	12,231.33	3.6145		12,307.2354
Total	11.9697	152.1636	84.3750	0.1153	12.8846	6.3017	19.1863	6.7112	5.7976	12.5088		12,231.33	12,231.33	3.6145		12,307.2354

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0250	0.0000	5.0250	2.6174	0.0000	2.6174			0.0000			0.0000
Off-Road	2.8306	54.7252	61.3299	0.1152	0.3114	0.3114	0.3114	0.3963	0.3963	0.3963	0.0000	12,220.1094	12,220.1094	3.6112		12,295.9441
Total	2.8306	54.7252	61.3299	0.1152	5.0250	0.3114	5.3364	2.6174	0.3963	3.0137	0.0000	12,220.1094	12,220.1094	3.6112		12,295.9441

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
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
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

LAX West Aircraft Maintenance Area Project - Excavation Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips).

Grading - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	106.00
tblGrading	AcresOfGrading	901.00	84.00
tblGrading	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	HorsePower	255.00	247.00
tblOffRoadEquipment	HorsePower	361.00	350.00
tblOffRoadEquipment	LoadFactor	0.41	0.37
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014

tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOffRoadEquipment	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblOnRoadDust	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	PhaseName	Excavation Crew	Excavation Crew - Feb-Jun 2014

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	12.7436	152.3620	86.4418	0.1190	13.1975	6.3047	19.5022	6.7942	5.8003	12.5945	0.0000	12,565.70	12,565.70	3.6348	0.0000	12,642.036
												63	63			6
Total	12.7436	152.3620	86.4418	0.1190	13.1975	6.3047	19.5022	6.7942	5.8003	12.5945	0.0000	12,565.70	12,565.70	3.6348	0.0000	12,642.036
												63	63			6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.6045	54.9235	63.3967	0.1189	5.3380	0.3143	5.6523	2.7004	0.3990	3.0994	0.0000	12,554.48	12,554.48	3.6315	0.0000	12,630.745
												47	47			4
Total	3.6045	54.9235	63.3967	0.1189	5.3380	0.3143	5.6523	2.7004	0.3990	3.0994	0.0000	12,554.48	12,554.48	3.6315	0.0000	12,630.745
												47	47			4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	71.7152	63.9520	26.6596	0.0924	59.5534	95.0145	71.0173	60.2548	93.1214	75.3912	0.0000	0.0893	0.0893	0.0913	0.0000	0.0893

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Excavation Crew - Feb-Jun 2014	Grading	2/1/2014	6/30/2014	5	106	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Excavation Crew - Feb-Jun 2014	Excavators	0	8.00	162	0.38
Excavation Crew - Feb-Jun 2014	Graders	1	8.00	235	0.37
Excavation Crew - Feb-Jun 2014	Rubber Tired Dozers	2	8.00	247	0.38
Excavation Crew - Feb-Jun 2014	Scrapers	8	8.00	350	0.38
Excavation Crew - Feb-Jun 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Excavation Crew - Feb-Jun 2014	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Excavation Crew - Feb-Jun 2014 - 2014**Unmitigated Construction On-Site****Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					12.8846	0.0000	12.8846	6.7112	0.0000	6.7112			0.0000			0.0000
Off-Road	11.9697	152.1636	84.3750	0.1153		6.3017	6.3017		5.7976	5.7976		12,231.33	12,231.33	3.6145		12,307.2354
Total	11.9697	152.1636	84.3750	0.1153	12.8846	6.3017	19.1863	6.7112	5.7976	12.5088		12,231.33	12,231.33	3.6145		12,307.2354

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					5.0250	0.0000	5.0250	2.6174	0.0000	2.6174			0.0000			0.0000
Off-Road	2.8306	54.7252	61.3299	0.1152	0.3114	0.3114	0.3114	0.3963	0.3963	0.3963	0.0000	12,220.1094	12,220.1094	3.6112		12,295.9441
Total	2.8306	54.7252	61.3299	0.1152	5.0250	0.3114	5.3364	2.6174	0.3963	3.0137	0.0000	12,220.1094	12,220.1094	3.6112		12,295.9441

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013

LAX West Aircraft Maintenance Area Project - Fence Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstructionPhase		NumDays	40.00						23.00
tblLandscapeEquipment		NumberSummerDays	250						365
tblLandUse		LandUseSquareFeet	2,395,800.00						0.00
tblOffRoadEquipment		HorsePower	255.00						200.00
tblOffRoadEquipment		LoadFactor	0.40						0.38
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00						1.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	4.00						0.00
tblProjectCharacteristics		CO2IntensityFactor	1227.89						1104
tblProjectCharacteristics		OperationalYear	2014						2018
tblTripsAndVMT		WorkerTripNumber	3.00						4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.0647	10.7652	3.9718	7.1600e-003	6.0668	0.5291	6.5959	3.3221	0.4868	3.8089	0.0000	751.4245	751.4245	0.2099	0.0000	755.8325
Total	1.0647	10.7652	3.9718	7.1600e-003	6.0668	0.5291	6.5959	3.3221	0.4868	3.8089	0.0000	751.4245	751.4245	0.2099	0.0000	755.8325

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.2546	3.1482	3.8177	7.1600e-003	2.3933	0.0182	2.4115	1.3029	0.0230	1.3258	0.0000	750.7818	750.7818	0.2097	0.0000	755.1858
Total	0.2546	3.1482	3.8177	7.1600e-003	2.3933	0.0182	2.4115	1.3029	0.0230	1.3258	0.0000	750.7818	750.7818	0.2097	0.0000	755.1858

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102		0.0000				0.0000
Off-Road	0.9717	10.7394	3.6534	6.6000e-003	0.5287	0.5287	0.5287	0.4864	0.4864	0.4864	700.5127	700.5127	0.2070			704.8599
Total	0.9717	10.7394	3.6534	6.6000e-003	6.0221	0.5287	6.5508	3.3102	0.4864	3.7966	700.5127	700.5127	0.2070			704.8599

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0931	0.0258	0.3184	5.7000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122		50.9118	50.9118	2.9000e-003		50.9726
Total	0.0931	0.0258	0.3184	5.7000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122		50.9118	50.9118	2.9000e-003		50.9726

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	0.1615	3.1224	3.4993	6.5900e-003	0.0178	0.0178	0.0178	0.0226	0.0226	0.0226	0.0000	699.8700	699.8700	0.2068		704.2132
Total	0.1615	3.1224	3.4993	6.5900e-003	2.3486	0.0178	2.3664	1.2910	0.0226	1.3136	0.0000	699.8700	699.8700	0.2068		704.2132

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0931	0.0258	0.3184	5.7000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122	50.9118	50.9118	2.9000e-003	50.9118	2.9000e-003	50.9726	50.9726
Total	0.0931	0.0258	0.3184	5.7000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122	50.9118	50.9118	2.9000e-003	50.9118	2.9000e-003	50.9726	50.9726

LAX West Aircraft Maintenance Area Project - Fence Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	23.00

tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	3.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.0822	10.7678	3.9486	7.1300e-003	6.0668	0.5291	6.5959	3.3221	0.4868	3.8089	0.0000	748.2806	748.2806	0.2099	0.0000	752.6886
Total	1.0822	10.7678	3.9486	7.1300e-003	6.0668	0.5291	6.5959	3.3221	0.4868	3.8089	0.0000	748.2806	748.2806	0.2099	0.0000	752.6886

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.2721	3.1508	3.7945	7.1200e-003	2.3933	0.0182	2.4115	1.3029	0.0230	1.3258	0.0000	747.6379	747.6379	0.2097	0.0000	752.0420
Total	0.2721	3.1508	3.7945	7.1200e-003	2.3933	0.0182	2.4115	1.3029	0.0230	1.3258	0.0000	747.6379	747.6379	0.2097	0.0000	752.0420

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1106	0.0283	0.2953	5.3000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122	47.7679	47.7679	47.7679	2.9000e-003	47.8288	47.8288	47.8288	47.8288	47.8288
Total	0.1106	0.0283	0.2953	5.3000e-004	0.0447	4.2000e-004	0.0451	0.0119	3.9000e-004	0.0122	47.7679	47.7679	47.7679	2.9000e-003	47.8288	47.8288	47.8288	47.8288	47.8288

LAX West Aircraft Maintenance Area Project - Finish Saw/Sealing Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2014

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	21.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	85.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.9523	17.2305	7.6911	0.0114	0.1118	0.9939	1.1057	0.0296	0.9144	0.9440	0.0000	1,191.5395	1,191.5395	0.3218	0.0000	11,198.2961
Total	1.9523	17.2305	7.6911	0.0114	0.1118	0.9939	1.1057	0.0296	0.9144	0.9440	0.0000	1,191.5395	1,191.5395	0.3218	0.0000	1,198.2961

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day														lb/day	
2014	0.4796	5.1413	6.9379	0.0114	0.1118	0.0360	0.1478	0.0296	0.0407	0.0704	0.0000	1,190.563	1,190.563	0.3215	0.0000	1,197.3137
												1	1			
Total	0.4796	5.1413	6.9379	0.0114	0.1118	0.0360	0.1478	0.0296	0.0407	0.0704	0.0000	1,190.563	1,190.563	0.3215	0.0000	1,197.3137
												1	1			

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	75.4322	70.1617	9.7934	0.0875	0.0000	96.3789	86.6362	0.0000	95.5467	92.5468	0.0000	0.0819	0.0819	0.0901	0.0000	0.0820

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Finish Saw & Sealing Crew - Aug 2014	Building Construction	8/1/2014	8/31/2014	5	21	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Finish Saw & Sealing Crew - Aug 2014	Cranes	1	8.00	85	0.48
Finish Saw & Sealing Crew - Aug 2014	Forklifts	1	8.00	200	0.38
Finish Saw & Sealing Crew - Aug 2014	Generator Sets	0	8.00	84	0.74
Finish Saw & Sealing Crew - Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Finish Saw & Sealing Crew - Aug 2014	Welders	0	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
Finish Saw & Sealing Crew - Aug 2014	2	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Finish Saw & Sealing Crew - Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7196	17.1660	6.8951	0.0100		0.9928	0.9928		0.9134	0.9134		1,064.2600	1,064.2600	0.3145		11,070.8646
Total	1.7196	17.1660	6.8951	0.0100		0.9928	0.9928		0.9134	0.9134		1,064.2600	1,064.2600	0.3145		1,070.8646

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316
Total	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.2470	5.0768	6.1419	0.0100		0.0349	0.0349		0.0398	0.0398	0.0000	1,063.2836	1,063.2836	0.3142		11,069.8821

Total	0.2470	5.0768	6.1419	0.0100	0.0349	0.0349	0.0398	0.0398	0.0000	1,063.283 6	1,063.283 6	0.3142		1,069.8821
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316
Total	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316

LAX West Aircraft Maintenance Area Project - Finish Saw/Sealing Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2014

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	21.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	85.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.9960	17.2368	7.6333	0.0113	0.1118	0.9939	1.1057	0.0296	0.9144	0.9440	0.0000	1,183.679	1,183.679	0.3218	0.0000	1,190.4364
Total	1.9960	17.2368	7.6333	0.0113	0.1118	0.9939	1.1057	0.0296	0.9144	0.9440	0.0000	1,183.679	1,183.679	0.3218	0.0000	1,190.4364

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day														lb/day	
2014	0.5234	5.1476	6.8801	0.0113	0.1118	0.0360	0.1478	0.0296	0.0407	0.0704	0.0000	1,182.703	1,182.703	0.3215	0.0000	1,189.4540
													4	4		
Total	0.5234	5.1476	6.8801	0.0113	0.1118	0.0360	0.1478	0.0296	0.0407	0.0704	0.0000	1,182.703	1,182.703	0.3215	0.0000	1,189.4540
													4	4		

	ROG	NOx	CO	SO2	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	73.7800	70.1360	9.8676	0.0882	0.0000	96.3789	86.6362	0.0000	95.5467	92.5468	0.0000	0.0825	0.0825	0.0901	0.0000	0.0825

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Finish Saw & Sealing Crew - Aug	Building Construction	8/1/2014	8/31/2014	5	21	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Finish Saw & Sealing Crew - Aug 2014	Cranes	1	8.00	85	0.48
Finish Saw & Sealing Crew - Aug 2014	Forklifts	1	8.00	200	0.38
Finish Saw & Sealing Crew - Aug 2014	Generator Sets	0	8.00	841	0.74
Finish Saw & Sealing Crew - Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Finish Saw & Sealing Crew - Aug 2014	Welders	0	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
Finish Saw & Sealing Crew - Aug 2014	2	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.7196	17.1660	6.8951	0.0100		0.9928	0.9928		0.9134	0.9134		1,064.260 0	1,064.260 0	0.3145			1,070.86468
Total	1.7196	17.1660	6.8951	0.0100		0.9928	0.9928		0.9134	0.9134		1,064.260 0	1,064.260 0	0.3145			1,070.86468

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719
Total	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															

Off-Road	0.2470	5.0768	6.1419	0.0100	0.0349	0.0398	0.0000	1,063.283 6	1,063.283 6	0.3142	1,069.8821
Total	0.2470	5.0768	6.1419	0.0100	0.0349	0.0398	0.0000	1,063.283 6	1,063.283 6	0.3142	1,069.8821

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719
Total	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719

LAX West Aircraft Maintenance Area Project - Foundation Crew 2014
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Skiploader; "Generator" = Dump & Mix Trucks; Backhoe; "Weider" = Lift.

Grading -

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Skiploader; "Generator" = Dump & Mix Trucks; Backhoe; "Weider" = Lift.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	170.00
tblOffRoadEquipment	HorsePower	89.00	84.00
tblOffRoadEquipment	HorsePower	84.00	350.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	46.00	125.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.37
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.45	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018

tbTripsAndVMT	VendorTripNumber	20.00	0.00
tbTripsAndVMT	WorkerTripNumber	53.00	28.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.5590	56.2772	25.1992	0.0674	0.3130	2.3627	2.6757	0.0830	2.2657	2.3487	0.0000	7,390.889	7,390.889	0.6787	0.0000	17,405.1409
Total	5.5590	56.2772	25.1992	0.0674	0.3130	2.3627	2.6757	0.0830	2.2657	2.3487	0.0000	7,390.889	7,390.889	0.6787	0.0000	17,405.1409

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	2.1615	29.8321	38.4768	0.0673	0.3130	0.1885	0.5014	0.0830	0.2219	0.3049	0.0000	7,384.435	7,384.435	0.6780	0.0000	17,398.6744
Total	2.1615	29.8321	38.4768	0.0673	0.3130	0.1885	0.5014	0.0830	0.2219	0.3049	0.0000	7,384.435	7,384.435	0.6780	0.0000	17,398.6744

	ROG	NOx	CO	SO2	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	61.1165	46.9908	-52.6909	0.0891	0.0000	92.0241	81.2603	0.0000	90.2044	87.0167	0.0000	0.0873	0.0873	0.0899	0.0000	0.0873

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Foundation Crew - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Foundation Crew - Jul-Aug 2014	Cranes	1	8.00	170	0.48
Foundation Crew - Jul-Aug 2014	Forklifts	1	8.00	84	0.37
Foundation Crew - Jul-Aug 2014	Generator Sets	4	8.00	350	0.38
Foundation Crew - Jul-Aug 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37
Foundation Crew - Jul-Aug 2014	Welders	1	8.00	125	0.31

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
Foundation Crew - Jul-Aug 2014	8	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Foundation Crew - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	4.9075	56.0966	22.9704	0.0634		2.3598	2.3598	2.2630	2.2630		7,034.506	7,034.506	0.6584		7,048.3324
Total	4.9075	56.0966	22.9704	0.0634		2.3598	2.3598	2.2630	2.2630		7,034.506	7,034.506	0.6584		7,048.3324

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.5101	29.6515	36.2481	0.0633		0.1855	0.1855		0.2193	0.2193	0.0000	7,028.053	7,028.053	0.6578		7,041.8659
Total	1.5101	29.6515	36.2481	0.0633		0.1855	0.1855		0.2193	0.2193	0.0000	7,028.053	7,028.053	0.6578		7,041.8659

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085
Total	0.6515	0.1806	2.2288	3.9700e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		356.3825	356.3825	0.0203		356.8085

LAX West Aircraft Maintenance Area Project - Foundation Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Skiploader;

"Generator" = Dump & Mix Trucks; Backhoe; "Welder" = Lift.

Grading -

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Skiploader; "Generator" = Dump & Mix Trucks; Backhoe; "Welder" = Lift.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	170.00
tblOffRoadEquipment	HorsePower	89.00	84.00
tblOffRoadEquipment	HorsePower	84.00	350.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	46.00	125.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.37
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.45	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018

tbTripsAndVMT	VendorTripNumber	20.00	0.00
tbTripsAndVMT	WorkerTripNumber	53.00	28.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	5.6814	56.2950	25.0372	0.0671	0.3130	2.3627	2.6757	0.0830	2.2657	2.3487	0.0000	7,368.882	7,368.882	0.6787	0.0000	17,383.1337
Total	5.6814	56.2950	25.0372	0.0671	0.3130	2.3627	2.6757	0.0830	2.2657	2.3487	0.0000	7,368.882	7,368.882	0.6787	0.0000	17,383.1337

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	2.2839	29.8499	38.3149	0.0670	0.3130	0.1885	0.5014	0.0830	0.2219	0.3049	0.0000	7,362.428	7,362.428	0.6780	0.0000	17,376.6672
Total	2.2839	29.8499	38.3149	0.0670	0.3130	0.1885	0.5014	0.0830	0.2219	0.3049	0.0000	7,362.428	7,362.428	0.6780	0.0000	17,376.6672

	ROG	NOx	CO	SO2	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	59.7997	46.9760	-53.0318	0.0894	0.0000	92.0241	81.2603	0.0000	90.2044	87.0167	0.0000	0.0876	0.0876	0.0899	0.0000	0.0876

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Foundation Crew - Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	51	441	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Foundation Crew - Jul-Aug 2014	Cranes	1	8.00	170	0.48
Foundation Crew - Jul-Aug 2014	Forklifts	1	8.00	84	0.37
Foundation Crew - Jul-Aug 2014	Generator Sets	4	8.00	350	0.38
Foundation Crew - Jul-Aug 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37
Foundation Crew - Jul-Aug 2014	Welders	1	8.00	125	0.31

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
Foundation Crew - Jul-Aug 2014	8	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use DPF for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Foundation Crew - Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	4.9075	56.0966	22.9704	0.0634	2.3598	2.3598	2.3598	2.2630	2.2630	2.2630		7,034.5068	7,034.5068	0.6584		7,048.3324
Total	4.9075	56.0966	22.9704	0.0634	2.3598	2.3598	2.3598	2.2630	2.2630	2.2630		7,034.5068	7,034.5068	0.6584		7,048.3324

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.5101	29.6515	36.2481	0.0633		0.1855	0.1855		0.2193	0.2193	0.0000	7,028.053	7,028.053	0.6578		7,041.8659
Total	1.5101	29.6515	36.2481	0.0633		0.1855	0.1855		0.2193	0.2193	0.0000	7,028.053	7,028.053	0.6578		7,041.8659

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013
Total	0.7739	0.1983	2.0668	3.7200e-003	0.3130	2.9500e-003	0.3159	0.0830	2.7000e-003	0.0857		334.3753	334.3753	0.0203		334.8013

LAX West Aircraft Maintenance Area Project - Fuel Line/UG Utilities Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck; "Forklift" = Roller; "Generator" = Air Compressor; Welder.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	153.00
tblConstructionPhase	NumDays	1,110.00	153.00
tblConstructionPhase	PhaseEndDate	8/3/2015	12/31/2014
tblConstructionPhase	PhaseStartDate	1/1/2015	6/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	400.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	232.00
tblOffRoadEquipment	HorsePower	84.00	85.00
tblOffRoadEquipment	HorsePower	46.00	30.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	LoadFactor	0.74	0.48

Year	lb/day														lb/day	
2014	4.1219	49.3069	58.5611	0.1066	0.4024	0.5043	0.9067	0.1067	0.5708	0.6775	0.0000	11,301.69	11,301.69	2.3922	0.0000	11,351.9267
Total	4.1219	49.3069	58.5611	0.1066	0.4024	0.5043	0.9067	0.1067	0.5708	0.6775	0.0000	11,301.69	11,301.69	2.3922	0.0000	11,351.9267

	ROG	NOx	CO	SO2	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	63.6968	58.5394	5.0595	0.0843	0.0000	90.3439	83.8809	0.0000	88.3254	86.4387	0.0000	0.0880	0.0880	0.0906	0.0000	0.0880

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fuel Line/UG Utilities Pt. 1 - Jun-Dec-2014	Building Construction	6/1/2014	12/31/2014	5	153	
2	Fuel Line/UG Utilities Pt. 2 - Jun-Dec-2014	Building Construction	6/1/2014	12/31/2014	5	153	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Cranes	3	8.00	350	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Forklifts	1	8.00	232	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Generator Sets	1	8.00	85	0.48
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Cranes	1	8.00	247	0.38
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Forklifts	2	8.00	235	0.36
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Generator Sets	2	8.00	400	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Welders	2	8.00	30	0.45
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37

Category	lb/day							lb/day						
Off-Road	5.7773	61.6267	38.5630	0.0495	2.8422	2.8422	2.6550	5,120.2779	5,120.2779	1.4405				5,150.5280
Total	5.7773	61.6267	38.5630	0.0495	2.8422	2.8422	2.6550	5,120.2779	5,120.2779	1.4405				5,150.5280

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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
Off-Road	2.0203	24.4104	27.7140	0.0495	0.3556	0.3556	0.3556	0.3865	0.3865	0.3865	0.0000	5,115.5803	5,115.5803	1.4392		5,145.8027
Total	2.0203	24.4104	27.7140	0.0495	0.3556	0.3556	0.3556	0.3865	0.3865	0.3865	0.0000	5,115.5803	5,115.5803	1.4392		5,145.8027

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
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

[illegible]

LAX West Aircraft Maintenance Area Project - Fuel Line/UG Utilities Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck; "Forklift" = Roller; "Generator" = Air Compressor; Welder.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	153.00
tblConstructionPhase	NumDays	1,110.00	153.00
tblConstructionPhase	PhaseEndDate	8/3/2015	12/31/2014
tblConstructionPhase	PhaseStartDate	1/1/2015	6/1/2014
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	400.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	232.00
tblOffRoadEquipment	HorsePower	84.00	85.00
tblOffRoadEquipment	HorsePower	46.00	30.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	LoadFactor	0.74	0.48

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	36.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	11.5115	118.9476	61.4736	0.1064	0.4024	5.2224	5.6248	0.1067	4.8894	4.9961	0.0000	11,283.35	11,283.35	2.3944	0.0000	11,333.6348
Total	11.5115	118.9476	61.4736	0.1064	0.4024	5.2224	5.6248	0.1067	4.8894	4.9961	0.0000	11,283.35	11,283.35	2.3944	0.0000	11,333.6348

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day														lb/day
2014	4.2793	49.3297	58.3528	0.1063	0.4024	0.5043	0.9067	0.1067	0.5708	0.6775	0.0000	11,273.39	2.3922	0.0000	11,323.631
												51	51		7
Total	4.2793	49.3297	58.3528	0.1063	0.4024	0.5043	0.9067	0.1067	0.5708	0.6775	0.0000	11,273.39	2.3922	0.0000	11,323.631
												51	51		7

	ROG	NOx	CO	SO2	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	62.8260	58.5282	5.0766	0.0846	0.0000	90.3439	83.8809	0.0000	88.3254	86.4387	0.0000	0.0882	0.0882	0.0906	0.0000	0.0883

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Building Construction	6/1/2014	12/31/2014	5	153	
2	Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Building Construction	6/1/2014	12/31/2014	5	153	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Cranes	3	8.00	350	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Forklifts	1	8.00	232	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Generator Sets	1	8.00	85	0.48
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Cranes	1	8.00	247	0.38
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Forklifts	2	8.00	235	0.36
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Generator Sets	2	8.00	400	0.38
Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014	Welders	2	8.00	30	0.45
Fuel Line/UG Utilities Pt. 1 - Jun-Dec 2014	Tractors/Loaders/Backhoes	1	8.00	83	0.37

Worker	0.9950	0.2550	2.6573	4.7800e-003	0.4024	3.7900e-003	0.4062	0.1067	0.1102	3.4700e-003	0.0261	429.9111	429.9111	0.0261	430.4588
Total	0.9950	0.2550	2.6573	4.7800e-003	0.4024	3.7900e-003	0.4062	0.1067	0.1102	3.4700e-003	0.0261	429.9111	429.9111	0.0261	430.4588

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
Off-Road	1.2640	24.6643	27.9815	0.0521		0.1449	0.1449		0.1809	0.1809	0.0000	5,727.903	5,727.903	0.9270		5,747.3702
Total	1.2640	24.6643	27.9815	0.0521		0.1449	0.1449		0.1809	0.1809	0.0000	5,727.903	5,727.903	0.9270		5,747.3702

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
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	0.9950	0.2550	2.6573	4.7800e-003	0.4024	3.7900e-003	0.4062	0.1067	3.4700e-003	0.1102	429.9111	429.9111	429.9111	0.0261		430.4588
Total	0.9950	0.2550	2.6573	4.7800e-003	0.4024	3.7900e-003	0.4062	0.1067	3.4700e-003	0.1102	429.9111	429.9111	429.9111	0.0261		430.4588

3.3 Fuel Line/UG Utilities Pt. 2 - Jun-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	5.7773	61.6267	38.5630	0.0495		2.8422	2.8422		2.6550	2.6550	5,120.277	5,120.277	5,120.277	1.4405		5,150.5280
Total	5.7773	61.6267	38.5630	0.0495		2.8422	2.8422		2.6550	2.6550	5,120.277	5,120.277	5,120.277	1.4405		5,150.5280

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.0203	24.4104	27.7140	0.0495		0.3556	0.3556		0.3865	0.3865	0.0000	5,115.580	5,115.580	1.4392		5,145.8027
Total	2.0203	24.4104	27.7140	0.0495		0.3556	0.3556		0.3865	0.3865	0.0000	5,115.580	5,115.580	1.4392		5,145.8027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Grading Crew 2014
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - 'Refer to Construction Model Inputs worksheet provided in this appendix.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	215.00
tblConstructionPhase	NumDays	110.00	215.00
tblConstructionPhase	PhaseEndDate	9/25/2015	11/28/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	2/1/2014
tblGrading	AcresOfGrading	322.50	84.00
tblGrading	AcresOfGrading	1,827.50	84.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	162.00	150.00
tblOffRoadEquipment	HorsePower	162.00	247.00
tblOffRoadEquipment	HorsePower	174.00	220.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	HorsePower	255.00	330.00
tblOffRoadEquipment	HorsePower	361.00	500.00
tblOffRoadEquipment	HorsePower	361.00	350.00
tblOffRoadEquipment	LoadFactor	0.38	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.37

tblOffRoadEquipment	LoadFactor	0.40	0.48
tblOffRoadEquipment	LoadFactor	0.48	0.34
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	25.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	15.5045	194.8272	117.8130	0.1579	7.0743	7.8779	14.9522	3.4590	7.2476	10.7066	0.0000	16,708.65	16,708.65	4.8769	0.0000	16,811.0698
Total	15.5045	194.8272	117.8130	0.1579	7.0743	7.8779	14.9522	3.4590	7.2476	10.7066	0.0000	16,708.65	16,708.65	4.8769	0.0000	16,811.0698

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	4.2700	73.6865	86.5275	0.1578	2.8954	0.4288	3.3242	1.3852	0.5346	1.9198	0.0000	16,693.56	16,693.56	4.8724	0.0000	16,795.8804
Total	4.2700	73.6865	86.5275	0.1578	2.8954	0.4288	3.3242	1.3852	0.5346	1.9198	0.0000	16,693.56	16,693.56	4.8724	0.0000	16,795.8804

	ROG	NOx	CO	SO2	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	72.4594	62.1785	26.5553	0.0886	59.0723	94.5568	77.7681	59.9545	92.6241	82.0694	0.0000	0.0903	0.0903	0.0915	0.0000	0.0904

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading Crew Pt. 1 - Feb-Nov 2014	Grading	2/1/2014	11/28/2014	5	215	
2	Grading Crew Pt. 2 - Feb-Nov 2014	Grading	2/1/2014	11/28/2014	5	215	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading Crew Pt. 1 - Feb-Nov 2014	Excavators	2	8.00	150	0.43
Grading Crew Pt. 1 - Feb-Nov 2014	Graders	1	8.00	220	0.41
Grading Crew Pt. 1 - Feb-Nov 2014	Rubber Tired Dozers	1	8.00	330	0.48
Grading Crew Pt. 1 - Feb-Nov 2014	Scrapers	1	8.00	500	0.34
Grading Crew Pt. 1 - Feb-Nov 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading Crew Pt. 2 - Feb-Nov 2014	Excavators	1	8.00	247	0.37
Grading Crew Pt. 2 - Feb-Nov 2014	Graders	1	8.00	235	0.41
Grading Crew Pt. 2 - Feb-Nov 2014	Rubber Tired Dozers	0	8.00	255	0.40
Grading Crew Pt. 2 - Feb-Nov 2014	Scrapers	8	8.00	350	0.38

Grading Crew Pt. 2 - Feb-Nov 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
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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
Grading Crew Pt. 1 - Feb-Nov 2014	5	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT
Grading Crew Pt. 2 - Feb-Nov 2014	10	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Grading Crew Pt. 1 - Feb-Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.4364	0.0000	6.4364	3.3550	0.0000	3.3550			0.0000			0.0000
Off-Road	4.9187	60.9274	38.4137	0.0474		2.6191	2.6191		2.4096	2.4096		5,023.9836	5,023.9836	1.4846		45,055.1611
Total	4.9187	60.9274	38.4137	0.0474	6.4364	2.6191	9.0555	3.3550	2.4096	5.7645		5,023.9836	5,023.9836	1.4846		5,055.1611

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	101.8236	5.8000e-003		101.9453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5102	0.0000	2.5102	1.3084	0.0000	1.3084			0.0000			0.0000
Off-Road	1.1579	22.3860	27.5882	0.0473		0.1356	0.1356		0.1621	0.1621	0.0000	5,019.374	5,019.374	1.4833		5,050.5233
Total	1.1579	22.3860	27.5882	0.0473	2.5102	0.1356	2.6458	1.3084	0.1621	1.4706	0.0000	5,019.374	5,019.374	1.4833		5,050.5233

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	5.8000e-003	101.8236	101.8236	5.8000e-003	101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	5.8000e-003	101.8236	101.8236	5.8000e-003	101.9453

3.3 Grading Crew Pt. 2 - Feb-Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.4143	0.0000	0.4143	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	10.1205	133.7708	77.8074	0.1078		5.2567	5.2567		4.8362	4.8362		11,430.11	11,430.11	3.3777		11,501.0455
Total	10.1205	133.7708	77.8074	0.1078	0.4143	5.2567	5.6710	0.0447	4.8362	4.8809		11,430.11	11,430.11	3.3777		11,501.0455

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179

Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	152.7353	152.7353	8.6900e-003	152.9179
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1616	0.0000	0.1616	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	2.6468	51.1715	57.3473	0.1077		0.2912	0.2912		0.3706	0.3706	0.0000	11,419.62	11,419.62	3.3746		11,490.4939
Total	2.6468	51.1715	57.3473	0.1077	0.1616	0.2912	0.4527	0.0175	0.3706	0.3880	0.0000	11,419.62	11,419.62	3.3746		11,490.4939

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179
Total	0.2792	0.0774	0.9552	1.7000e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		152.7353	152.7353	8.6900e-003		152.9179

LAX West Aircraft Maintenance Area Project - Grading Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - 'Refer to Construction Model Inputs worksheet provided in this appendix.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	215.00
tblConstructionPhase	NumDays	110.00	215.00
tblConstructionPhase	PhaseEndDate	9/25/2015	11/28/2014
tblConstructionPhase	PhaseStartDate	11/29/2014	2/1/2014
tblGrading	AcresOfGrading	322.50	84.00
tblGrading	AcresOfGrading	1,827.50	84.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	162.00	150.00
tblOffRoadEquipment	HorsePower	162.00	247.00
tblOffRoadEquipment	HorsePower	174.00	220.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	HorsePower	255.00	330.00
tblOffRoadEquipment	HorsePower	361.00	500.00
tblOffRoadEquipment	HorsePower	361.00	350.00
tblOffRoadEquipment	LoadFactor	0.38	0.43
tblOffRoadEquipment	LoadFactor	0.38	0.37

tblOffRoadEquipment	LoadFactor	0.40	0.48
tblOffRoadEquipment	LoadFactor	0.48	0.34
tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	8.00
tblTripsAndVMT	WorkerTripNumber	25.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	15.5920	194.8398	117.6973	0.1578	7.0743	7.8779	14.9522	3.4590	7.2476	10.7066	0.0000	16,692.93	16,692.93	4.8769	0.0000	16,795.3504
Total	15.5920	194.8398	117.6973	0.1578	7.0743	7.8779	14.9522	3.4590	7.2476	10.7066	0.0000	16,692.93	16,692.93	4.8769	0.0000	16,795.3504

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	4.3575	73.6992	86.4118	0.1576	2.8954	0.4288	3.3242	1.3852	0.5346	1.9198	0.0000	16,677.84	16,677.84	4.8724	0.0000	16,780.1609
Total	4.3575	73.6992	86.4118	0.1576	2.8954	0.4288	3.3242	1.3852	0.5346	1.9198	0.0000	16,677.84	16,677.84	4.8724	0.0000	16,780.1609

	ROG	NOx	CO	SO2	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	72.0531	62.1745	26.5814	0.0887	59.0723	94.5568	77.7681	59.9545	92.6241	82.0694	0.0000	0.0904	0.0904	0.0915	0.0000	0.0904

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading Crew Pt. 1 - Feb-Nov 2014	Grading	2/1/2014	11/28/2014	5	215	
2	Grading Crew Pt. 2 - Feb-Nov 2014	Grading	2/1/2014	11/28/2014	5	215	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading Crew Pt. 1 - Feb-Nov 2014	Excavators	2	8.00	150	0.43
Grading Crew Pt. 1 - Feb-Nov 2014	Graders	1	8.00	220	0.41
Grading Crew Pt. 1 - Feb-Nov 2014	Rubber Tired Dozers	1	8.00	330	0.48
Grading Crew Pt. 1 - Feb-Nov 2014	Scrapers	1	8.00	500	0.34
Grading Crew Pt. 1 - Feb-Nov 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading Crew Pt. 2 - Feb-Nov 2014	Excavators	1	8.00	247	0.37
Grading Crew Pt. 2 - Feb-Nov 2014	Graders	1	8.00	235	0.41
Grading Crew Pt. 2 - Feb-Nov 2014	Rubber Tired Dozers	0	8.00	255	0.40
Grading Crew Pt. 2 - Feb-Nov 2014	Scrapers	8	8.00	350	0.38

Grading Crew Pt. 2 - Feb-Nov 2014	Tractors/Loaders/Backhoes	0	8.00	97	0.37
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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
Grading Crew Pt. 1 - Feb-Nov 2014	5	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT
Grading Crew Pt. 2 - Feb-Nov 2014	10	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Grading Crew Pt. 1 - Feb-Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.4364	0.0000	6.4364	3.3550	0.0000	3.3550			0.0000			0.0000
Off-Road	4.9187	60.9274	38.4137	0.0474		2.6191	2.6191		2.4096	2.4096		5,023.9836	5,023.9836	1.4846		45,055.1611
Total	4.9187	60.9274	38.4137	0.0474	6.4364	2.6191	9.0555	3.3550	2.4096	5.7645		5,023.9836	5,023.9836	1.4846		5,055.1611

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	95.5358	95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	95.5358	95.5358	95.5358	5.8000e-003		95.6575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5102	0.0000	2.5102	1.3084	0.0000	1.3084			0.0000			0.0000
Off-Road	1.1579	22.3860	27.5882	0.0473		0.1356	0.1356		0.1621	0.1621	0.0000	5,019.374	5,019.374	1.4833		5,050.5233
Total	1.1579	22.3860	27.5882	0.0473	2.5102	0.1356	2.6458	1.3084	0.1621	1.4706	0.0000	5,019.374	5,019.374	1.4833		5,050.5233

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	95.5358	95.5358	5.8000e-003	95.6575	95.6575	5.8000e-003	95.6575	95.6575	95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	95.5358	95.5358	5.8000e-003	95.6575	95.6575	5.8000e-003	95.6575	95.6575	95.6575

3.3 Grading Crew Pt. 2 - Feb-Nov 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.4143	0.0000	0.4143	0.0447	0.0000	0.0447			0.0000			0.0000
Off-Road	10.1205	133.7708	77.8074	0.1078		5.2567	5.2567		4.8362	4.8362		11,430.11	11,430.11	3.3777		11,501.0455
Total	10.1205	133.7708	77.8074	0.1078	0.4143	5.2567	5.6710	0.0447	4.8362	4.8809		11,430.11	11,430.11	3.3777		11,501.0455

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		143.3037	143.3037	8.6900e-003		143.4863

Total	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367	143.3037	143.3037	8.6900e-003	143.4863
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1616	0.0000	0.1616	0.0175	0.0000	0.0175			0.0000			0.0000
Off-Road	2.6468	51.1715	57.3473	0.1077		0.2912	0.2912		0.3706	0.3706	0.0000	11,419.62	11,419.62	3.3746		11,490.4939
Total	2.6468	51.1715	57.3473	0.1077	0.1616	0.2912	0.4527	0.0175	0.3706	0.3880	0.0000	11,419.62	11,419.62	3.3746		11,490.4939

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		143.3037	143.3037	8.6900e-003		143.4863
Total	0.3317	0.0850	0.8858	1.5900e-003	0.1341	1.2600e-003	0.1354	0.0356	1.1600e-003	0.0367		143.3037	143.3037	8.6900e-003		143.4863

LAX West Aircraft Maintenance Area Project - Interior Rough Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	43.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	30.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.0105	6.8564	10.1798	0.0101	0.3353	0.6672	1.0026	0.0889	0.6138	0.7028	0.0000	1,001.855	1,001.855	0.2050	0.0000	1,006.1592
												1	1			
Total	3.0105	6.8564	10.1798	0.0101	0.3353	0.6672	1.0026	0.0889	0.6138	0.7028	0.0000	1,001.855	1,001.855	0.2050	0.0000	1,006.1592
												1	1			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.0083	6.8503	10.1727	0.0100	0.3353	0.6666	1.0020	0.0889	0.6133	0.7022	0.0000	1,001.286	1,001.286	0.2048	0.0000	1,005.5868
												3	3			
Total	3.0083	6.8503	10.1727	0.0100	0.3353	0.6666	1.0020	0.0889	0.6133	0.7022	0.0000	1,001.286	1,001.286	0.2048	0.0000	1,005.5868
												3	3			

	ROG	NOx	CO	SO2	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	0.0704	0.0891	0.0702	0.0995	0.0000	0.0914	0.0598	0.0000	0.0912	0.0797	0.0000	0.0568	0.0568	0.0829	0.0000	0.0569

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Interior Rough Crew - Nov-Dec 2014	Building Construction	11/1/2014	12/31/2014	5	43	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Interior Rough Crew - Nov-Dec 2014	Cranes	4	8.00	50	0.31
Interior Rough Crew - Nov-Dec 2014	Forklifts	0	8.00	89	0.20
Interior Rough Crew - Nov-Dec 2014	Generator Sets	0	8.00	84	0.74
Interior Rough Crew - Nov-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Rough Crew - Nov-Dec 2014	Welders	0	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
Interior Rough Crew - Nov-Dec 2014	4	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Interior Rough Crew - Nov-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.3124	6.6629	7.7919	5.8000e-003	0.6641	0.6641	0.6641	0.6109	0.6109	0.6109	620.0167	620.0167	0.1832	0.1832		623.8644
Total	2.3124	6.6629	7.7919	5.8000e-003	0.6641	0.6641	0.6641	0.6109	0.6109	0.6109	620.0167	620.0167	0.1832	0.1832		623.8644

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948
Total	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3103	6.6568	7.7847	5.8000e-003		0.6635	0.6635		0.6104	0.6104	0.0000	619.4479	619.4479	0.1831		623.2920
Total	2.3103	6.6568	7.7847	5.8000e-003		0.6635	0.6635		0.6104	0.6104	0.0000	619.4479	619.4479	0.1831		623.2920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948
Total	0.6980	0.1935	2.3880	4.2500e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		381.8383	381.8383	0.0217		382.2948

LAX West Aircraft Maintenance Area Project - Interior Rough Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	43.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	30.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.1416	6.8754	10.0063	9.7900e-003	0.3353	0.6672	1.0026	0.0889	0.6138	0.7028	0.0000	978.2760	978.2760	0.2050	0.0000	982.5800
Total	3.1416	6.8754	10.0063	9.7900e-003	0.3353	0.6672	1.0026	0.0889	0.6138	0.7028	0.0000	978.2760	978.2760	0.2050	0.0000	982.5800

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	3.1395	6.8693	9.9991	9.7800e-003	0.3353	0.6666	1.0020	0.0889	0.6133	0.7022	0.0000	977.7071	977.7071	0.2048	0.0000	982.0077
Total	3.1395	6.8693	9.9991	9.7800e-003	0.3353	0.6666	1.0020	0.0889	0.6133	0.7022	0.0000	977.7071	977.7071	0.2048	0.0000	982.0077

	ROG	NOx	CO	SO2	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	0.0675	0.0889	0.0715	0.1021	0.0000	0.0914	0.0598	0.0000	0.0912	0.0797	0.0000	0.0581	0.0581	0.0829	0.0000	0.0583

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Interior Rough Crew - Nov-Dec 2014	Building Construction	11/1/2014	12/31/2014	5	43	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Interior Rough Crew - Nov-Dec 2014	Cranes	4	8.00	50	0.31
Interior Rough Crew - Nov-Dec 2014	Forklifts	0	8.00	89	0.20
Interior Rough Crew - Nov-Dec 2014	Generator Sets	0	8.00	84	0.74
Interior Rough Crew - Nov-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Rough Crew - Nov-Dec 2014	Welders	0	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
Interior Rough Crew - Nov-Dec 2014	4	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Interior Rough Crew - Nov-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.3124	6.6629	7.7919	5.8000e-003	0.6641	0.6641	0.6641	0.6109	0.6109	0.6109		620.0167	620.0167	0.1832		623.8644
Total	2.3124	6.6629	7.7919	5.8000e-003	0.6641	0.6641	0.6641	0.6109	0.6109	0.6109		620.0167	620.0167	0.1832		623.8644

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3355	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156
Total	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3103	6.6568	7.7847	5.8000e-003		0.6635	0.6635		0.6104	0.6104	0.0000	619.4479	619.4479	0.1831		623.2920
Total	2.3103	6.6568	7.7847	5.8000e-003		0.6635	0.6635		0.6104	0.6104	0.0000	619.4479	619.4479	0.1831		623.2920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3355	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156
Total	0.8292	0.2125	2.2144	3.9800e-003	0.3353	3.1600e-003	0.3385	0.0889	2.8900e-003	0.0918		358.2592	358.2592	0.0217		358.7156

LAX West Aircraft Maintenance Area Project - Lighting-Night Shift 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2014

Utility Company Los Angeles Department of Water & Power

CO₂ Intensity (lb/MW/hr) 1104 CH₄ Intensity (lb/MW/hr) 0.029 N₂O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO₂ Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO₂ Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	132.00
tblEnergyUse	LightingElect	2.63	2.63
tblEnergyUse	T24E	3.92	3.92
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.8395	12.6131	8.7462	0.0188	0.0000	0.7001	0.7001	0.0000	0.7001	0.7001	0.0000	1,335.074	1,335.074	0.1645	0.0000	1,338.5275
												1	1			
Total	1.8395	12.6131	8.7462	0.0188	0.0000	0.7001	0.7001	0.0000	0.7001	0.7001	0.0000	1,335.074	1,335.074	0.1645	0.0000	1,338.5275
												1	1			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	1.8378	12.6015	8.7382	0.0188	0.0000	0.6994	0.6994	0.0000	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	0.0000	1,337.2994
												2	2			
Total	1.8378	12.6015	8.7382	0.0188	0.0000	0.6994	0.6994	0.0000	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	0.0000	1,337.2994
												2	2			

	ROG	NOx	CO	SO2	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	0.0919	0.0917	0.0917	0.0532	0.0000	0.0928	0.0928	0.0000	0.0928	0.0928	0.0000	0.0917	0.0917	0.0912	0.0000	0.0917

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	7.00	226	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	12	8.00	15	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	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
Building Construction	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction

3.2 Lighting-Night Shift - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.8395	12.6131	8.7462	0.0188	0.7001	0.7001	0.7001	0.7001	0.7001	0.7001	1,335.074	1,335.074	1,335.074	0.1645	1	1,338.5275
Total	1.8395	12.6131	8.7462	0.0188	0.7001	0.7001	0.7001	0.7001	0.7001	0.7001	1,335.074	1,335.074	1,335.074	0.1645	1	1,338.5275

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
Off-Road	1.8378	12.6015	8.7382	0.0188	0.6994	0.6994	0.6994	0.6994	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	2	1,337.2994
Total	1.8378	12.6015	8.7382	0.0188	0.6994	0.6994	0.6994	0.6994	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	2	1,337.2994

Mitigated Construction Off-Site

[illegible]

LAX West Aircraft Maintenance Area Project - Lighting-Night Shift 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2014

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	132.00
tblEnergyUse	LightingElect	2.63	2.63
tblEnergyUse	T24E	3.92	3.92
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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
2014	1.8395	12.6131	8.7462	0.0188	0.0000	0.7001	0.7001	0.0000	0.7001	0.7001	0.0000	1,335.074	1,335.074	0.1645	0.0000	1,338.5275
Total	1.8395	12.6131	8.7462	0.0188	0.0000	0.7001	0.7001	0.0000	0.7001	0.7001	0.0000	1,335.074	1,335.074	0.1645	0.0000	1,338.5275

Mitigated Construction

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
2014	1.8378	12.6015	8.7382	0.0188	0.0000	0.6994	0.6994	0.0000	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	0.0000	1,337.2994
Total	1.8378	12.6015	8.7382	0.0188	0.0000	0.6994	0.6994	0.0000	0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	0.0000	1,337.2994

	ROG	NOx	CO	SO2	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	0.0919	0.0917	0.0917	0.0532	0.0000	0.0928	0.0928	0.0000	0.0928	0.0928	0.0000	0.0917	0.0917	0.0912	0.0000	0.0917

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Generator Sets	12	8.00	15	0.74

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
Building Construction	12	0.00	0.00	0.00	14.70	6.90	20.00	ILD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Lighting-Night Shift - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1,8395	12.6131	8.7462	0.0188		0.7001	0.7001		0.7001	0.7001		1,335.074	1,335.074	0.1645		1,338.5275
												1	1			
Total	1,8395	12.6131	8.7462	0.0188		0.7001	0.7001		0.7001	0.7001		1,335.074	1,335.074	0.1645	1	1,338.5275

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1,8378	12.6015	8.7382	0.0188		0.6994	0.6994		0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643		1,337.2994
												2	2			
Total	1,8378	12.6015	8.7382	0.0188		0.6994	0.6994		0.6994	0.6994	0.0000	1,333.849	1,333.849	0.1643	2	1,337.2994

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Misc Labor Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Tractor/Loader/Backhoe" = CAT 428 Backhoe

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	261.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.5480	3.0873	2.8690	4.0900e-003	0.1118	0.2385	0.3503	0.0296	0.2194	0.2491	0.0000	410.5619	410.5619	0.0910	0.0000	412.4720
Total	0.5480	3.0873	2.8690	4.0900e-003	0.1118	0.2385	0.3503	0.0296	0.2194	0.2491	0.0000	410.5619	410.5619	0.0910	0.0000	412.4720

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.2976	1.5472	2.7982	4.0800e-003	0.1118	0.0140	0.1258	0.0296	0.0140	0.0436	0.0000	410.3020	410.3020	0.0909	0.0000	412.2105
Total	0.2976	1.5472	2.7982	4.0800e-003	0.1118	0.0140	0.1258	0.0296	0.0140	0.0436	0.0000	410.3020	410.3020	0.0909	0.0000	412.2105

	ROG	NOx	CO	SO2	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	45.6896	49.8839	2.4664	0.2445	0.0000	94.1135	64.0812	0.0000	93.6423	82.4989	0.0000	0.0633	0.0633	0.0880	0.0000	0.0634

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Miscellaneous Labor Crew	Site Preparation	1/1/2014	11/23/2014	5	261	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Miscellaneous Labor Crew	Rubber Tired Dozers	0	8.00	255	0.40
Miscellaneous Labor Crew	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Miscellaneous Labor Crew	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Miscellaneous Labor Crew - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3153	3.0228	2.0730	2.6700e-003		0.2375	0.2375		0.2185	0.2185		283.2825	283.2825	0.0837		285.0405
Total	0.3153	3.0228	2.0730	2.6700e-003	0.0000	0.2375	0.2375	0.0000	0.2185	0.2185		283.2825	283.2825	0.0837		285.0405

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306	127.2795	127.2795	7.2400e-003	127.4316
Total	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306	127.2795	127.2795	7.2400e-003	127.4316

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0649	1.4827	2.0022	2.6700e-003		0.0130	0.0130		0.0130	0.0130	0.0000	283.0226	283.0226	0.0836		284.7789
Total	0.0649	1.4827	2.0022	2.6700e-003	0.0000	0.0130	0.0130	0.0000	0.0130	0.0130	0.0000	283.0226	283.0226	0.0836		284.7789

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316
Total	0.2327	0.0645	0.7960	1.4200e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		127.2795	127.2795	7.2400e-003		127.4316

LAX West Aircraft Maintenance Area Project - Misc Labor Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Tractor/Loader/Backhoe" = CAT 428 Backhoe

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	40.00	261.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00

tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.5917	3.0936	2.8111	4.0000e-003	0.1118	0.2385	0.3503	0.0296	0.2194	0.2491	0.0000	402.7022	402.7022	0.0910	0.0000	404.6123
Total	0.5917	3.0936	2.8111	4.0000e-003	0.1118	0.2385	0.3503	0.0296	0.2194	0.2491	0.0000	402.7022	402.7022	0.0910	0.0000	404.6123

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.3413	1.5535	2.7403	3.9900e-003	0.1118	0.0140	0.1258	0.0296	0.0140	0.0436	0.0000	402.4423	402.4423	0.0909	0.0000	404.3508
Total	0.3413	1.5535	2.7403	3.9900e-003	0.1118	0.0140	0.1258	0.0296	0.0140	0.0436	0.0000	402.4423	402.4423	0.0909	0.0000	404.3508

	ROG	NOx	CO	SO2	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	42.3154	49.7818	2.5172	0.2500	0.0000	94.1135	64.0812	0.0000	93.6423	82.4989	0.0000	0.0645	0.0645	0.0880	0.0000	0.0646

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Miscellaneous Labor Crew	Site Preparation	11/1/2014	12/31/2014	51	2611	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Miscellaneous Labor Crew	Rubber Tired Dozers	0	8.00	255	0.40
Miscellaneous Labor Crew	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Miscellaneous Labor Crew	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Miscellaneous Labor Crew - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3153	3.0228	2.0730	2.6700e-003		0.2375	0.2375		0.2185	0.2185		283.2825	283.2825	0.0837		285.0405
Total	0.3153	3.0228	2.0730	2.6700e-003	0.0000	0.2375	0.2375	0.0000	0.2185	0.2185		283.2825	283.2825	0.0837		285.0405

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306	119.4197	119.4197	7.2400e-003	119.5719
Total	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306	119.4197	119.4197	7.2400e-003	119.5719

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0649	1.4827	2.0022	2.6700e-003		0.0130	0.0130		0.0130	0.0130	0.0000	283.0226	283.0226	0.0836		284.7789
Total	0.0649	1.4827	2.0022	2.6700e-003	0.0000	0.0130	0.0130	0.0000	0.0130	0.0130	0.0000	283.0226	283.0226	0.0836		284.7789

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719
Total	0.2764	0.0708	0.7381	1.3300e-003	0.1118	1.0500e-003	0.1128	0.0296	9.6000e-004	0.0306		119.4197	119.4197	7.2400e-003		119.5719

LAX West Aircraft Maintenance Area Project - PCCP Paving Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. Tier 3 Engines; Level 3 DPFs; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Gomaco GP-4000 Paver; "Forklifts" =

Compressors (Gang Drills); "Generator Sets" = Gomaco TC-400 Cure/Texture Rig; "Tractors/Loaders/Backhoes" = Gomaco RTP-500 Belt Placers

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Tri-axle Dump Truck

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	13.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	53.00	26.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	21.4214	244.4794	164.1113	0.2090	1.0770	10.4116	11.4886	0.2905	9.5976	9.8881	0.0000	21,928.22	21,928.22	5.9361	0.0000	22,052.8849
Total	21.4214	244.4794	164.1113	0.2090	1.0770	10.4116	11.4886	0.2905	9.5976	9.8881	0.0000	21,928.22	21,928.22	5.9361	0.0000	22,052.8849

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	7.1873	95.8667	113.8532	0.2088	1.0770	0.6342	1.7112	0.2905	0.7557	1.0462	0.0000	21,909.79	21,909.79	5.9307	0.0000	22,034.3359
Total	7.1873	95.8667	113.8532	0.2088	1.0770	0.6342	1.7112	0.2905	0.7557	1.0462	0.0000	21,909.79	21,909.79	5.9307	0.0000	22,034.3359

	ROG	NOx	CO	SO2	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	66.4481	60.7874	30.6244	0.0861	0.0000	93.9087	85.1051	0.0000	92.1258	89.4192	0.0000	0.0841	0.0841	0.0908	0.0000	0.0841

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Building Construction	7/1/2014	12/31/2014	5	132	
2	PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Building Construction	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Cranes	1	8.00	450	0.42
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Cranes	13	8.00	350	0.38
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Forklifts	2	8.00	85	0.48
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Forklifts	0	8.00	89	0.20
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Generator Sets	1	8.00	70	0.50
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Generator Sets	0	8.00	84	0.74
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Tractors/Loaders/Backhoes	2	8.00	200	0.42
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Welders	0	8.00	46	0.45
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Welders	0	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
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	6	26.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Off-Road	1.0014	20.2238	23.9576	0.0413	0.1353	0.1353	0.1550	0.1550	0.0000	4,337.955	4,337.955	1,2184	4,363.5420
										0	0		
Total	1.0014	20.2238	23.9576	0.0413	0.1353	0.1353	0.1550	0.1550	0.0000	4,337.955	4,337.955	1,2184	4,363.5420

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4041	2.2418	2.3963	4.3600e-003	0.1249	0.0445	0.1694	0.0356	0.0409	0.0765		445.8512	445.8512	3.9200e-003		445.9336
Worker	0.6049	0.1677	2.0696	3.6800e-003	0.2906	2.7400e-003	0.2934	0.0771	2.5000e-003	0.0796		330.9266	330.9266	0.0188		331.3221
Total	1.0090	2.4095	4.4659	8.0400e-003	0.4156	0.0472	0.4628	0.1126	0.0434	0.1560		776.7777	776.7777	0.0228		777.2557

3.3 PCCP Paving Crew Pt. 2 - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	14.7248	191.0212	127.3774	0.1485		7.9158	7.9158		7.2826	7.2826		15,752.7179	15,752.7179	4.6551		15,850.4750
Total	14.7248	191.0212	127.3774	0.1485		7.9158	7.9158		7.2826	7.2826		15,752.7179	15,752.7179	4.6551		15,850.4750

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4041	2.2418	2.3963	4.3600e-003	0.1249	0.0445	0.1694	0.0356	0.0409	0.0765		445.8512	445.8512	3.9200e-003		445.9336
Worker	1.1168	0.3096	3.8208	6.8000e-003	0.5365	5.0600e-003	0.5416	0.1423	4.6200e-003	0.1469		610.9414	610.9414	0.0348		611.6716
Total	1.5209	2.5514	6.2171	0.0112	0.6615	0.0495	0.7110	0.1779	0.0455	0.2234		1,056.7925	1,056.7925	0.0387		1,057.6052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	3.6560	70.6820	79.2125	0.1484		0.4022	0.4022		0.5118	0.5118	0.0000	15,738.26	15,738.26	4.6508		15,835.9330
Total	3.6560	70.6820	79.2125	0.1484		0.4022	0.4022		0.5118	0.5118	0.0000	15,738.26	15,738.26	4.6508		15,835.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.4041	2.2418	2.3963	4.3600e-003	0.1249	0.0445	0.1694	0.0356	0.0409	0.0765		445.8512	445.8512	3.9200e-003		445.9336
Worker	1.1168	0.3096	3.8208	6.8000e-003	0.5365	5.0600e-003	0.5416	0.1423	4.6200e-003	0.1469		610.9414	610.9414	0.0348		611.6716
Total	1.5209	2.5514	6.2171	0.0112	0.6615	0.0495	0.7110	0.1779	0.0455	0.2234		1,056.7925	1,056.7925	0.0387		1,057.6052

tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	53.00	26.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	21.8222	244.6466	164.4938	0.2083	1.0770	10.4128	11.4898	0.2905	9.5987	9.8892	0.0000	21,862.68	21,862.68	5.9363	0.0000	21,987.346
												40	40			5
Total	21.8222	244.6466	164.4938	0.2083	1.0770	10.4128	11.4898	0.2905	9.5987	9.8892	0.0000	21,862.68	21,862.68	5.9363	0.0000	21,987.346
												40	40			5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	7.5880	96.0339	114.2357	0.2081	1.0770	0.6354	1.7124	0.2905	0.7568	1.0473	0.0000	21,844.24	21,844.24	5.9309	0.0000	21,968.797
												82	82			6
Total	7.5880	96.0339	114.2357	0.2081	1.0770	0.6354	1.7124	0.2905	0.7568	1.0473	0.0000	21,844.24	21,844.24	5.9309	0.0000	21,968.797
												82	82			6

	ROG	NOx	CO	SO2	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	65.2279	60.7459	30.5532	0.0816	0.0000	93.8980	85.0963	0.0000	92.1154	89.4093	0.0000	0.0843	0.0843	0.0908	0.0000	0.0844

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
--------------	------------	------------	------------	----------	---------------	----------	-------------------

1	PCCP Paving Crew Pt. 1 - Jul-Dec-2015	Building Construction	7/1/2014	12/31/2014	5	132	
2	PCCP Paving Crew Pt. 2 - Jul-Dec-2015	Building Construction	7/1/2014	12/31/2014	5	132	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Cranes	1	8.00	450	0.42
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Cranes	13	8.00	350	0.38
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Forklifts	2	8.00	85	0.48
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Forklifts	0	8.00	89	0.20
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Generator Sets	1	8.00	70	0.50
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Generator Sets	0	8.00	84	0.74
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Tractors/Loaders/Backhoes	2	8.00	200	0.42
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	Welders	0	8.00	46	0.45
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	Welders	0	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
PCCP Paving Crew Pt. 1 - Jul-Dec 2015	6	26.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
PCCP Paving Crew Pt. 2 - Jul-Dec 2015	21	48.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use DPF for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 PCCP Paving Crew Pt. 1 - Jul-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	4.1667	48.4973	26.0509	0.0413		2.3990	2.3990		2.2261	2.2261		4,341.9385	4,341.9385	1.2196		4,367.5490
Total	4.1667	48.4973	26.0509	0.0413		2.3990	2.3990		2.2261	2.2261		4,341.9385	4,341.9385	1.2196		4,367.5490

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4427	2.3020	2.8016	4.3300e-003	0.1249	0.0451	0.1700	0.0356	0.0414	0.0770		442.1608	442.1608	4.0300e-003		442.2454
Worker	0.7186	0.1842	1.9192	3.4500e-003	0.2906	2.7400e-003	0.2934	0.0771	2.5000e-003	0.0796		310.4913	310.4913	0.0188		310.8869
Total	1.1613	2.4861	4.7208	7.7800e-003	0.4156	0.0478	0.4634	0.1126	0.0439	0.1566		752.6521	752.6521	0.0229		753.1322

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.0014	20.2238	23.9576	0.0413		0.1353	0.1353		0.1550	0.1550	0.0000	4,337.9550	4,337.9550	1.2184		4,363.5420
Total	1.0014	20.2238	23.9576	0.0413		0.1353	0.1353		0.1550	0.1550	0.0000	4,337.9550	4,337.9550	1.2184		4,363.5420

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Off-Road	3.6560	70.6820	79.2125	0.1484	0.4022	0.5118	0.0000	15,738.26	15,738.26	4.6508	15,835.9330
Total	3.6560	70.6820	79.2125	0.1484	0.4022	0.5118	0.0000	15,738.26	15,738.26	4.6508	15,835.9330

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4427	2.3020	2.8016	4.3300e-003	0.1249	0.0451	0.1700	0.0356	0.0414	0.0770		442.1608	442.1608	4.0300e-003		442.2454
Worker	1.3267	0.3400	3.5431	6.3700e-003	0.5365	5.0600e-003	0.5416	0.1423	4.6200e-003	0.1469		573.2147	573.2147	0.0348		573.9450
Total	1.7694	2.6420	6.3447	0.0107	0.6615	0.0501	0.7116	0.1779	0.0461	0.2239		1,015.3756	1,015.3756	0.0388		1,016.1904

LAX West Aircraft Maintenance Area Project – Saw Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = Vacuum Sweeper".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = "Vacuum Sweeper".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	DPF	No Change	Level 3
tbiConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tbiConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tbiConstEquipMitigation	Tier	No Change	Tier 3
tbiConstEquipMitigation	Tier	No Change	Tier 3
tbiConstructionPhase	NumDays	1,110.00	44.00

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.4332	5.1651	6.8724	0.0112	0.0894	0.0367	0.1261	0.0237	0.0411	0.0649	0.0000	1,166.336	1,166.336	0.3204	0.0000	1,173.0639
Total	0.4332	5.1651	6.8724	0.0112	0.0894	0.0367	0.1261	0.0237	0.0411	0.0649	0.0000	1,166.336	1,166.336	0.3204	0.0000	1,173.0639

	ROG	NOx	CO	SO2	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	73.8273	66.5398	6.3907	0.0000	0.0000	95.9888	87.4406	0.0000	95.1112	92.5049	0.0000	0.0837	0.0837	0.0904	0.0000	0.0838

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Saw Crew Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	
2	Saw Crew Nov-Dec 2014	Building Construction	11/1/2014	12/31/2014	5	43	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Saw Crew Nov-Dec 2014	Cranes	1	8.00	230	0.31
Saw Crew Nov-Dec 2014	Forklifts	1	8.00	99	0.46
Saw Crew Nov-Dec 2014	Generator Sets	0	8.00	84	0.74
Saw Crew Jul-Aug 2014	Generator Sets	0	8.00	84	0.74
Saw Crew Jul-Aug 2014	Cranes	1	8.00	230	0.31
Saw Crew Jul-Aug 2014	Forklifts	1	8.00	99	0.46
Saw Crew Nov-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew Nov-Dec 2014	Welders	0	8.00	46	0.45
Saw Crew Jul-Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew Jul-Aug 2014	Welders	0	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
Saw Crew Nov-Dec 2014	2	8.00i	0.00i	0.00i	14.70i	6.90i	20.00i	LD_Mix	HDT_Mix	HHDT
Saw Crew Jul-Aug 2014	2	8.00i	0.00i	0.00i	14.70i	6.90i	20.00i	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use DPF for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Saw Crew Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.490	1,065.490	0.3149		1,072.1022
Total	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.490	1,065.490	0.3149		1,072.1022

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.5125	1,064.5125	0.3146		1,071.1186
Total	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.5125	1,064.5125	0.3146		1,071.1186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

3.3 Saw Crew Nov-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.4901	1,065.4901	0.3149		1,072.1022
Total	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.4901	1,065.4901	0.3149		1,072.1022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	5.8000e-003	101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245	101.8236	101.8236	5.8000e-003	101.9453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.512	1,064.512	0.3146		1,071.1186
Total	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.512	1,064.512	0.3146		1,071.1186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453
Total	0.1861	0.0516	0.6368	1.1300e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		101.8236	101.8236	5.8000e-003		101.9453

LAX West Aircraft Maintenance Area Project – Saw Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = Vacuum Sweeper".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = "Vacuum Sweeper".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	44.00

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2014	0.4682	5.1702	6.8261	0.0111	0.0894	0.0367	0.1261	0.0237	0.0411	0.0649	0.0000	1,160.048	1,160.048	0.3204	0.0000	1,166.7761
Total	0.4682	5.1702	6.8261	0.0111	0.0894	0.0367	0.1261	0.0237	0.0411	0.0649	0.0000	1,160.048	1,160.048	0.3204	0.0000	1,166.7761

	ROG	NOx	CO	SO2	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	72.2993	66.5180	6.4313	0.0902	0.0000	95.9888	87.4406	0.0000	95.1112	92.5049	0.0000	0.0842	0.0842	0.0904	0.0000	0.0842

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Saw Crew Jul-Aug 2014	Building Construction	7/1/2014	8/31/2014	5	44	
2	Saw Crew Nov-Dec 2014	Building Construction	11/1/2014	12/31/2014	5	43	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Saw Crew Nov-Dec 2014	Cranes	1	8.00	230	0.31
Saw Crew Nov-Dec 2014	Forklifts	1	8.00	99	0.46
Saw Crew Nov-Dec 2014	Generator Sets	0	8.00	84	0.74
Saw Crew Jul-Aug 2014	Generator Sets	0	8.00	84	0.74
Saw Crew Jul-Aug 2014	Cranes	1	8.00	230	0.31
Saw Crew Jul-Aug 2014	Forklifts	1	8.00	99	0.46
Saw Crew Nov-Dec 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew Nov-Dec 2014	Welders	0	8.00	46	0.45
Saw Crew Jul-Aug 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew Jul-Aug 2014	Welders	0	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
Saw Crew Nov-Dec 2014	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Saw Crew Jul-Aug 2014	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use DPF for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Saw Crew Jul-Aug 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.490	1,065.490	0.3149		1,072.1022
Total	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1	1,065.490	0.3149		1,072.1022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.512	1,064.512	0.3146		1,071.1186
Total	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.512	1,064.512	0.3146		1,071.1186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

3.3 Saw Crew Nov-Dec 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.490	1,065.490	0.3149		1,072.1022
Total	1.4690	15.3849	6.7048	0.0100		0.9139	0.9139		0.8407	0.8407		1,065.490	1,065.490	0.3149		1,072.1022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.5125	1,064.5125	0.3146		1,071.1186
Total	0.2471	5.1135	6.2356	0.0100		0.0358	0.0358		0.0404	0.0404	0.0000	1,064.5125	1,064.5125	0.3146		1,071.1186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575
Total	0.2211	0.0567	0.5905	1.0600e-003	0.0894	8.4000e-004	0.0903	0.0237	7.7000e-004	0.0245		95.5358	95.5358	5.8000e-003		95.6575

LAX West Aircraft Maintenance Area Project - Striping Crew 2014
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating - Months 8-9: 50,780 sqft of outdoor painted area (6% of [68 * 2/7 = 19.43 acres]). (The 6% factor based on CalEEMod User's Guide, Appendix E, Section 7.)

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	50,780.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	44.00
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	10/30/2014	8/31/2014
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblConstructionPhase	PhaseStartDate	9/1/2014	7/1/2014
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00

tblTripsAndVMT	WorkerTripNumber	53.00	3.00
tblTripsAndVMT	WorkerTripNumber	11.00	3.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	14.7758	14.1106	6.2909	9.5300e-003	0.0671	0.7086	0.7757	0.0178	0.6519	0.6697	0.0000	998.2847	998.2847	0.2768	0.0000	1,004.0971
Total	14.7758	14.1106	6.2909	9.5300e-003	0.0671	0.7086	0.7757	0.0178	0.6519	0.6697	0.0000	998.2847	998.2847	0.2768	0.0000	1,004.0971

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	13.7257	4.1574	5.0934	9.5200e-003	0.0671	0.0241	0.0911	0.0178	0.0304	0.0482	0.0000	997.4388	997.4388	0.2765	0.0000	1,003.2460
Total	13.7257	4.1574	5.0934	9.5200e-003	0.0671	0.0241	0.0911	0.0178	0.0304	0.0482	0.0000	997.4388	997.4388	0.2765	0.0000	1,003.2460

	ROG	NOx	CO	SO2	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	7.1072	70.5372	19.0356	0.1049	0.0000	96.6032	88.2514	0.0000	95.3368	92.8042	0.0000	0.0847	0.0847	0.0903	0.0000	0.0848

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Striping Crew - Aug-Sep 2014, bc	Building Construction	7/1/2014	8/31/2014	5	44	
2	Striping Crew - Aug-Sep 2014, ac	Architectural Coating	7/1/2014	8/31/2014	5	44	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Striping Crew - Aug-Sep 2014, bc	Cranes	1	8.00	175	0.31
Striping Crew - Aug-Sep 2014, bc	Forklifts	1	6.00	200	0.31
Striping Crew - Aug-Sep 2014, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - Aug-Sep 2014, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - Aug-Sep 2014, bc	Welders	0	8.00	46	0.45
Striping Crew - Aug-Sep 2014, ac	Air Compressors	0	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
Striping Crew - Aug-Sep 2014, bc	2	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - Aug-Sep 2014, ac	0	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Striping Crew - Aug-Sep 2014, bc - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2632	14.0719	5.8133	8.6800e-003		0.7080	0.7080		0.6513	0.6513		921.9170	921.9170	0.2724		927.6381
Total	1.2632	14.0719	5.8133	8.6800e-003		0.7080	0.7080		0.6513	0.6513		921.9170	921.9170	0.2724		927.6381

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		38.1838	38.1838	2.1700e-003		38.2295
Total	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		38.1838	38.1838	2.1700e-003		38.2295

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2130	4.1187	4.6158	8.6700e-003	0.0234	0.0234	0.0298	0.0298	0.0000	921.0712	921.0712	0.2722	926.7871
Total	0.2130	4.1187	4.6158	8.6700e-003	0.0234	0.0234	0.0298	0.0298	0.0000	921.0712	921.0712	0.2722	926.7871

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		38.1838	38.1838	2.1700e-003		38.2295
Total	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		38.1838	38.1838	2.1700e-003		38.2295

3.3 Striping Crew - Aug-Sep 2014, ac - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.3730					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	13.3730	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Category		lb/day										lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	38.1838	38.1838	2.1700e-003	38.2295	38.2295
Total	0.0698	0.0194	0.2388	4.2000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	38.1838	38.1838	2.1700e-003	38.2295	38.2295

LAX West Aircraft Maintenance Area Project - Striping Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating - Months 8-9: 50,780 sqft of outdoor painted area (6% of [68 * 2/7 = 19.43 acres]). (The 6% factor based on CalEEMod User's Guide, Appendix E, Section 7.)

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	50,780.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	44.00
tblConstructionPhase	NumDays	1,110.00	44.00
tblConstructionPhase	PhaseEndDate	10/30/2014	8/31/2014
tblConstructionPhase	PhaseEndDate	8/29/2014	8/31/2014
tblConstructionPhase	PhaseStartDate	9/1/2014	7/1/2014
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00

tblTripsAndVMT	WorkerTripNumber	53.00	3.00
tblTripsAndVMT	WorkerTripNumber	11.00	3.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	14.8020	14.1144	6.2562	9.4800e-003	0.0671	0.7086	0.7757	0.0178	0.6519	0.6697	0.0000	993.5688	993.5688	0.2768	0.0000	999.3813
Total	14.8020	14.1144	6.2562	9.4800e-003	0.0671	0.7086	0.7757	0.0178	0.6519	0.6697	0.0000	993.5688	993.5688	0.2768	0.0000	999.3813

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2014	13.7519	4.1612	5.0587	9.4700e-003	0.0671	0.0241	0.0911	0.0178	0.0304	0.0482	0.0000	992.7230	992.7230	0.2765	0.0000	998.5302
Total	13.7519	4.1612	5.0587	9.4700e-003	0.0671	0.0241	0.0911	0.0178	0.0304	0.0482	0.0000	992.7230	992.7230	0.2765	0.0000	998.5302

	ROG	NOx	CO	SO2	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	7.0946	70.5182	19.1412	0.1055	0.0000	96.6032	88.2514	0.0000	95.3368	92.8042	0.0000	0.0851	0.0851	0.0903	0.0000	0.0852

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Striping Crew - Aug-Sep 2014, bc	Building Construction	7/1/2014	8/31/2014	5	44	
2	Striping Crew - Aug-Sep 2014, ac	Architectural Coating	7/1/2014	8/31/2014	5	44	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Striping Crew - Aug-Sep 2014, bc	Cranes	1	8.00	175	0.31
Striping Crew - Aug-Sep 2014, bc	Forklifts	1	6.00	200	0.31
Striping Crew - Aug-Sep 2014, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - Aug-Sep 2014, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - Aug-Sep 2014, bc	Welders	0	8.00	46	0.45
Striping Crew - Aug-Sep 2014, ac	Air Compressors	0	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
Striping Crew - Aug-Sep 2014, bc	2	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - Aug-Sep 2014, ac	0	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use DPF for Construction Equipment
Use Soil Stabilizer
Water Exposed Area

3.2 Striping Crew - Aug-Sep 2014, bc - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2632	14.0719	5.8133	8.6800e-003		0.7080	0.7080		0.6513	0.6513		921.9170	921.9170	0.2724		927.6381
Total	1.2632	14.0719	5.8133	8.6800e-003		0.7080	0.7080		0.6513	0.6513		921.9170	921.9170	0.2724		927.6381

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		35.8259	35.8259	2.1700e-003		35.8716
Total	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		35.8259	35.8259	2.1700e-003		35.8716

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.2130	4.1187	4.6158	8.6700e-003	0.0234	0.0234	0.0298	0.0298	0.0000	921.0712	921.0712	0.2722	926.7871
Total	0.2130	4.1187	4.6158	8.6700e-003	0.0234	0.0234	0.0298	0.0298	0.0000	921.0712	921.0712	0.2722	926.7871

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		35.8259	35.8259	2.1700e-003		35.8716
Total	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003		35.8259	35.8259	2.1700e-003		35.8716

3.3 Striping Crew - Aug-Sep 2014, ac - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.3730					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	13.3730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	35.8259	35.8259	35.8259	2.1700e-003		35.8716
Total	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	35.8259	35.8259	35.8259	2.1700e-003		35.8716

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.3730					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	13.3730	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

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

Category	lb/day												lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	35.8259	2.1700e-003	35.8259	2.1700e-003	35.8259	35.8716
Total	0.0829	0.0213	0.2214	4.0000e-004	0.0335	3.2000e-004	0.0339	8.8900e-003	2.9000e-004	9.1800e-003	35.8259	2.1700e-003	35.8259	2.1700e-003	35.8716	35.8716

LAX West Aircraft Maintenance Area Project - Structural Steel Crew 2014

South Coast AQMD Air District, Summer

1.0 Project Characteristics

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Crane; "Forklift" = Lift; "Generator" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. Crane; "Forklift" = Lift; "Generator" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	45.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	332.00
tblOffRoadEquipment	HorsePower	89.00	125.00
tblOffRoadEquipment	HorsePower	84.00	50.00

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Structural Steel Crew - Sep-Oct '2014	Building Construction	9/1/2014	10/31/2014	5	45	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Structural Steel Crew - Sep-Oct 2014	Cranes	1	8.00	332	0.26
Structural Steel Crew - Sep-Oct 2014	Forklifts	1	8.00	125	0.3
Structural Steel Crew - Sep-Oct 2014	Generator Sets	2	8.00	50	0.3
Structural Steel Crew - Sep-Oct 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.3
Structural Steel Crew - Sep-Oct 2014	Welders	0	8.00	46	0.46

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
Structural Steel Crew - Sep-Oct 2014	4	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Structural Steel Crew - Sep-Oct 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Category	lb/day															
	lb/day															

Off-Road	1.9953	17.7383	12.0597	0.0154	0.8893	0.8893	0.8352	0.8352	1,541.037	1,541.037	0.4336	1,550.1418
									1	1		
Total	1.9953	17.7383	12.0597	0.0154	0.8893	0.8893	0.8352	0.8352	1,541.037	1,541.037	0.4336	1,550.1418

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5119	0.1419	1.7512	3.1200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673		280.0148	280.0148	0.0159		280.3495
Total	0.5119	0.1419	1.7512	3.1200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673		280.0148	280.0148	0.0159		280.3495

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
Off-Road	1.0650	8.2775	9.4954	0.0154		0.2464	0.2464		0.2525	0.2525	0.0000	1,539.623	1,539.623	0.4332		1,548.7196
												3	3			
Total	1.0650	8.2775	9.4954	0.0154		0.2464	0.2464		0.2525	0.2525	0.0000	1,539.623	1,539.623	0.4332		1,548.7196
												3	3			

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5119	0.1419	1.7512	3.1200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673		280.0148	280.0148	0.0159		280.3495
Total	0.5119	0.1419	1.7512	3.1200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673		280.0148	280.0148	0.0159		280.3495

LAX West Aircraft Maintenance Area Project - Structural Steel Crew 2014

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.2 Precipitation Freq (Days) 31

Climate Zone 11 Operational Year 2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr) 1104 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Crane; "Forklift" = Lift; "Generator" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. Crane; "Forklift" = Lift; "Generator" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	1,110.00	45.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	332.00
tblOffRoadEquipment	HorsePower	89.00	125.00

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Structural Steel Crew - Sep-Oct 2014	Building Construction	9/1/2014	10/31/2014	5	45	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Structural Steel Crew - Sep-Oct 2014	Cranes	1	8.00	332	0.29
Structural Steel Crew - Sep-Oct 2014	Forklifts	1	8.00	125	0.31
Structural Steel Crew - Sep-Oct 2014	Generator Sets	2	8.00	50	0.31
Structural Steel Crew - Sep-Oct 2014	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Structural Steel Crew - Sep-Oct 2014	Welders	0	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
Structural Steel Crew - Sep-Oct 2014	4	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Structural Steel Crew - Sep-Oct 2014 - 2014

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.9953	17.7383	12.0597	0.0154		0.8893	0.8893		0.8352	0.8352		1,541.037	1,541.037	0.4336		1,550.1418
												1	1	1		
Total	1.9953	17.7383	12.0597	0.0154		0.8893	0.8893		0.8352	0.8352		1,541.037	1,541.037	0.4336	1	1,550.1418

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.6081	0.1558	1.6239	2.9200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673	262.7234	262.7234	262.7234	0.0159		263.0581
Total	0.6081	0.1558	1.6239	2.9200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673	262.7234	262.7234	262.7234	0.0159		263.0581

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.0650	8.2775	9.4954	0.0154		0.2484	0.2484		0.2525	0.2525	0.0000	1,539.6233	1,539.6233	0.4332		1,548.7196
Total	1.0650	8.2775	9.4954	0.0154		0.2484	0.2484		0.2525	0.2525	0.0000	1,539.6233	1,539.6233	0.4332		1,548.7196

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.6081	0.1558	1.6239	2.9200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673	262.7234	262.7234	262.7234	0.0159		263.0581
Total	0.6081	0.1558	1.6239	2.9200e-003	0.2459	2.3200e-003	0.2482	0.0652	2.1200e-003	0.0673	262.7234	262.7234	262.7234	0.0159		263.0581

Appendix B.1

Construction – Criteria Pollutant and Greenhouse Gas Emissions Calculations

- Criteria Pollutants – CalEEMod Off-Road/On-Site, Worker Commute, Vendor Truck Delivery Emissions (Pounds per Day)
 - Year 2 (2015)

LAX West Aircraft Maintenance Area Project - ACP Paving Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	62.50	1000sqft	1.43	62,500.00	0
Other Asphalt Surfaces	14.50	Acre	14.50	631,620.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Paver" = Loader; "Paving Equipment" = Flat Bed Truck; "Roller" = Dump Truck.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	1041180	947430
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	20.00	152.00

tblConstructionPhase	PhaseEndDate	3/1/2016	7/31/2015
tblConstructionPhase	PhaseStartDate	8/1/2015	1/1/2015
tblOffRoadEquipment	HorsePower	125.00	174.00
tblOffRoadEquipment	HorsePower	80.00	145.00
tblOffRoadEquipment	HorsePower	130.00	99.00
tblOffRoadEquipment	HorsePower	125.00	90.00
tblOffRoadEquipment	HorsePower	130.00	200.00
tblOffRoadEquipment	HorsePower	80.00	350.00
tblOffRoadEquipment	LoadFactor	0.42	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	13.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	44.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	12.9051	150.2343	98.7064	0.1518	0.4918	6.2451	6.7369	0.1304	5.7455	5.8759	0.0000	15,817.43	15,817.43	4.5895	0.0000	15,913.814
												39	39			0
Total	12.9051	150.2343	98.7064	0.1518	0.4918	6.2451	6.7369	0.1304	5.7455	5.8759	0.0000	15,817.43	15,817.43	4.5895	0.0000	15,913.814
												39	39			0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	3.9479	42.4898	84.8751	0.1516	0.4918	0.2983	0.7901	0.1304	0.2980	0.4284	0.0000	15,803.41	15,803.41	4.5853	0.0000	15,899.711
												96	96			8
Total	3.9479	42.4898	84.8751	0.1516	0.4918	0.2983	0.7901	0.1304	0.2980	0.4284	0.0000	15,803.41	15,803.41	4.5853	0.0000	15,899.711
												96	96			8

	ROG	NOx	CO	SO2	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	69.4079	71.7176	14.0125	0.0857	0.0000	95.2232	88.2715	0.0000	94.8140	92.7094	0.0000	0.0886	0.0886	0.0913	0.0000	0.0886

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	ACP Paving Crew pt.1 - Jan-Jul 2015	Paving	1/1/2015	7/31/2015	5	152	
2	ACP Paving Crew pt.2 - Jan-Jul 2015	Paving	1/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ACP Paving Crew pt.2 - Jan-Jul 2015	Pavers	1	8.00	90	0.36
ACP Paving Crew pt.2 - Jan-Jul 2015	Paving Equipment	1	2.00	200	0.31
ACP Paving Crew pt.2 - Jan-Jul 2015	Rollers	13	8.00	350	0.31
ACP Paving Crew pt.1 - Jan-Jul 2015	Pavers	1	8.00	174	0.42
ACP Paving Crew pt.1 - Jan-Jul 2015	Rollers	2	8.00	145	0.38
ACP Paving Crew pt.1 - Jan-Jul 2015	Paving Equipment	1	8.00	99	0.36

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
ACP Paving Crew pt.2 - Jan-Jul 2015	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ACP Paving Crew pt.1 - Jan-Jul 2015	4	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 ACP Paving Crew pt.1 - Jan-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.7536	19.9982	12.2676	0.0188		1.0722	1.0722		0.9864	0.9864		1,975.975	1,975.975	0.5899		11,988.3632
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0035	19.9982	12.2676	0.0188		1.0722	1.0722		0.9864	0.9864		1,975.975	1,975.975	0.5899		1,988.3632

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
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
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
Worker	0.9508	0.2548	3.1589	6.2300e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344		542.0354	542.0354	0.0292		542.6483
Total	0.9508	0.2548	3.1589	6.2300e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344		542.0354	542.0354	0.0292		542.6483

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
Off-Road	0.4243	8.4507	14.2729	0.0188		0.0610	0.0610		0.0610	0.0610		1,974.162	1,974.162	0.5894		1,986.5390
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6743	8.4507	14.2729	0.0188		0.0610	0.0610		0.0610	0.0610		1,974.162	1,974.162	0.5894		1,986.5390

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.9508	0.2548	3.1589	6.2300e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344	542.0354	542.0354	542.0354	0.0292		542.6483
Total	0.9508	0.2548	3.1589	6.2300e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344	542.0354	542.0354	542.0354	0.0292		542.6483

3.3 ACP Paving Crew pt.2 - Jan-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	9.7009	129.9814	83.2798	0.1267		5.1686	5.1686		4.7552	4.7552	13,299.42	35	13,299.42	3.9704		13,382.8026
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	9.9508	129.9814	83.2798	0.1267		5.1686	5.1686		4.7552	4.7552	13,299.42	35	13,299.42	3.9704		13,382.8026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.0730	33.7844	67.4433	0.1266		0.2330	0.2330		0.2330	0.2330	0.0000	13,287.22	13,287.22	3.9668		13,370.5246
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3229	33.7844	67.4433	0.1266		0.2330	0.2330		0.2330	0.2330	0.0000	13,287.22	13,287.22	3.9668		13,370.5246

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - ACP Paving Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	62.50	1000sqft	1.43	62,500.00	0
Other Asphalt Surfaces	14.50	Acre	14.50	631,620.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Paver" = Loader; "Paving Equipment" = Flat Bed Truck;

"Roller" = Dump Truck.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area Nonresidential Interior	1041180	947430
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	15.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	152.00
tblConstructionPhase	NumDays	20.00	152.00

tblConstructionPhase	PhaseEndDate	3/1/2016	7/31/2015
tblConstructionPhase	PhaseStartDate	8/1/2015	1/1/2015
tblOffRoadEquipment	HorsePower	125.00	174.00
tblOffRoadEquipment	HorsePower	80.00	145.00
tblOffRoadEquipment	HorsePower	130.00	99.00
tblOffRoadEquipment	HorsePower	125.00	90.00
tblOffRoadEquipment	HorsePower	130.00	200.00
tblOffRoadEquipment	HorsePower	80.00	350.00
tblOffRoadEquipment	LoadFactor	0.42	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	13.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	10.00	44.00
tblTripsAndVMT	WorkerTripNumber	38.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	13.0849	150.2593	98.4673	0.1514	0.4918	6.2451	6.7369	0.1304	5.7455	5.8759	0.0000	15,783.88	15,783.88	4.5895	0.0000	15,880.269
												93	93			4
Total	13.0849	150.2593	98.4673	0.1514	0.4918	6.2451	6.7369	0.1304	5.7455	5.8759	0.0000	15,783.88	15,783.88	4.5895	0.0000	15,880.269
												93	93			4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	4.1278	42.5148	84.6361	0.1513	0.4918	0.2983	0.7901	0.1304	0.2980	0.4284	0.0000	15,769.87	15,769.87	4.5853	0.0000	15,866.167
												50	50			2
Total	4.1278	42.5148	84.6361	0.1513	0.4918	0.2983	0.7901	0.1304	0.2980	0.4284	0.0000	15,769.87	15,769.87	4.5853	0.0000	15,866.167
												50	50			2

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	68.4541	71.7057	14.0465	0.0859	0.0000	95.2232	88.2715	0.0000	94.8140	92.7094	0.0000	0.0888	0.0913	0.0000	0.0888

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	ACP Paving Crew pt.1 - Jan-Jul 12015	Paving	1/1/2015	7/31/2015	5	152	
2	ACP Paving Crew pt.2 - Jan-Jul 12015	Paving	1/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ACP Paving Crew pt.2 - Jan-Jul 2015	Pavers	1	8.00	90	0.36
ACP Paving Crew pt.2 - Jan-Jul 2015	Paving Equipment	1	2.00	200	0.31
ACP Paving Crew pt.2 - Jan-Jul 2015	Rollers	13	8.00	350	0.31
ACP Paving Crew pt.1 - Jan-Jul 2015	Pavers	1	8.00	174	0.42
ACP Paving Crew pt.1 - Jan-Jul 2015	Rollers	2	8.00	145	0.38
ACP Paving Crew pt.1 - Jan-Jul 2015	Paving Equipment	1	8.00	99	0.36

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
ACP Paving Crew pt.2 - Jan-Jul 2015	15	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ACP Paving Crew pt.1 - Jan-Jul 2015	4	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 ACP Paving Crew pt.1 - Jan-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7536	19.9982	12.2676	0.0188		1.0722	1.0722		0.9864	0.9864		1,975.975 ₁	1,975.975 ₁	0.5899		1,988.3632
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0035	19.9982	12.2676	0.0188		1.0722	1.0722		0.9864	0.9864		1,975.975 ₁	1,975.975 ₁	0.5899		1,988.3632

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.1306	0.2797	2.9199	5.8400e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344		508.4908	508.4908	0.0292		509.1037
Total	1.1306	0.2797	2.9199	5.8400e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344		508.4908	508.4908	0.0292		509.1037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.4243	8.4507	14.2729	0.0188		0.0610	0.0610		0.0610	0.0610	0.0000	1,974.162 ₂	1,974.162 ₂	0.5894		1,986.5390
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6743	8.4507	14.2729	0.0188		0.0610	0.0610		0.0610	0.0610	0.0000	1,974.162 ₂	1,974.162 ₂	0.5894		1,986.5390

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	1.1306	0.2797	2.9199	5.8400e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344	508.4908	508.4908	508.4908	0.0292		509.1037
Total	1.1306	0.2797	2.9199	5.8400e-003	0.4918	4.3300e-003	0.4961	0.1304	3.9700e-003	0.1344	508.4908	508.4908	508.4908	0.0292		509.1037

3.3 ACP Paving Crew pt.2 - Jan-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	9.7009	129.9814	83.2798	0.1267		5.1686	5.1686		4.7552	4.7552	13,299.42	35	13,299.42	3.9704		13,382.8026
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	9.9508	129.9814	83.2798	0.1267		5.1686	5.1686		4.7552	4.7552	13,299.42	35	13,299.42	3.9704		13,382.8026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0730	33.7844	67.4433	0.1266		0.2330	0.2330		0.2330	0.2330	0.0000	13,287.22	13,287.22	3.9668		13,370.5246
Paving	0.2499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3229	33.7844	67.4433	0.1266		0.2330	0.2330		0.2330	0.2330	0.0000	13,287.22	13,287.22	3.9668		13,370.5246

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Admin Support Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = "Mechanics Truck"; "Tractors/Loaders/Backhoes" = "Vacuum Sweeper"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	152.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	97.00	170.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Administrative Support Crew	Site Preparation	1/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Administrative Support Crew	Rubber Tired Dozers	1	8.00	200	0.38
Administrative Support Crew	Tractors/Loaders/Backhoes	1	8.00	170	0.46

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
Administrative Support Crew	2	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Administrative Support Crew - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.5568	17.3610	8.1123	0.0132		0.8643	0.8643		0.7952	0.7952		1,388.276	1,388.276	0.4145		1,396.9802
Total	1.5568	17.3610	8.1123	0.0132	6.0221	0.8643	6.8864	3.3102	0.7952	4.1054		1,388.276	1,388.276	0.4145		1,396.9802

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0343	0.1956	0.2164	4.4000e-004	0.0125	3.4200e-003	0.0159	3.5600e-003	3.1400e-003	6.7000e-003	44.0914	44.0914	44.0914	3.4000e-004		44.0987
Worker	0.5186	0.1390	1.7231	3.4000e-003	0.2683	2.3600e-003	0.2706	0.0711	2.1600e-003	0.0733	295.6557	295.6557	295.6557	0.0159		295.9900
Total	0.5529	0.3345	1.9395	3.8400e-003	0.2808	5.7800e-003	0.2865	0.0747	5.3000e-003	0.0800	339.7471	339.7471	339.7471	0.0163		340.0887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	0.2578	4.6704	8.5489	0.0132		0.0217	0.0217		0.0217	0.0217	0.0000	1,387.0029	1,387.0029	0.4141		1,395.6986
Total	0.2578	4.6704	8.5489	0.0132	2.3486	0.0217	2.3703	1.2910	0.0217	1.3127	0.0000	1,387.0029	1,387.0029	0.4141		1,395.6986

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0343	0.1956	0.2164	4.4000e-004	0.0125	3.4200e-003	0.0159	3.5600e-003	3.1400e-003	6.7000e-003	44.0914	44.0914	44.0914	3.4000e-004		44.0987
Worker	0.5186	0.1390	1.7231	3.4000e-003	0.2683	2.3600e-003	0.2706	0.0711	2.1600e-003	0.0733	295.6557	295.6557	295.6557	0.0159		295.9900
Total	0.5529	0.3345	1.9395	3.8400e-003	0.2808	5.7800e-003	0.2865	0.0747	5.3000e-003	0.0800	339.7471	339.7471	339.7471	0.0163		340.0887

LAX West Aircraft Maintenance Area Project - Admin Support Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = "Mechanics Truck"; "Tractors/Loaders/Backhoes" = "Vacuum Sweeper"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	152.00
tblLandscapelEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	97.00	170.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Administrative Support Crew	Site Preparation	7/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Administrative Support Crew	Rubber Tired Dozers	1	8.00	200	0.38
Administrative Support Crew	Tractors/Loaders/Backhoes	1	8.00	170	0.46

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
Administrative Support Crew	2	24.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Administrative Support Crew - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.5568	17.3610	8.1123	0.0132		0.8643	0.8643		0.7952	0.7952		1,388.276	1,388.276	0.4145		1,396.9802
Total	1.5568	17.3610	8.1123	0.0132	6.0221	0.8643	6.8864	3.3102	0.7952	4.1054		1,388.276	1,388.276	0.4145		1,396.9802

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0376	0.2007	0.2568	4.3000e-004	0.0125	3.4600e-003	0.0160	3.5600e-003	3.1800e-003	6.7400e-003	43.7234	43.7234	43.7234	3.5000e-004		43.7308
Worker	0.6167	0.1526	1.5927	3.1900e-003	0.2683	2.3600e-003	0.2706	0.0711	2.1600e-003	0.0733	277.3586	277.3586	277.3586	0.0159		277.6929
Total	0.6543	0.3532	1.8494	3.6200e-003	0.2808	5.8200e-003	0.2866	0.0747	5.3400e-003	0.0801	321.0820	321.0820	321.0820	0.0163		321.4237

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	0.2578	4.6704	8.5489	0.0132		0.0217	0.0217		0.0217	0.0217	0.0000	1,387.0029	1,387.0029	0.4141		1,395.6986
Total	0.2578	4.6704	8.5489	0.0132	2.3486	0.0217	2.3703	1.2910	0.0217	1.3127	0.0000	1,387.0029	1,387.0029	0.4141		1,395.6986

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0376	0.2007	0.2568	4.3000e-004	0.0125	3.4600e-003	0.0160	3.5600e-003	3.1800e-003	6.7400e-003	43.7234	43.7234	43.7234	3.5000e-004		43.7308
Worker	0.6167	0.1526	1.5927	3.1900e-003	0.2683	2.3600e-003	0.2706	0.0711	2.1600e-003	0.0733	277.3586	277.3586	277.3586	0.0159		277.6929
Total	0.6543	0.3532	1.8494	3.6200e-003	0.2808	5.8200e-003	0.2866	0.0747	5.3400e-003	0.0801	321.0820	321.0820	321.0820	0.0163		321.4237

LAX West Aircraft Maintenance Area Project - Backfill Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblGrading	AcresOfGrading	21.00	68.00
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	162.00	232.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	LoadFactor	0.41	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	12,991	15,118	5,119	0.016	1,851	0.485	2,336	0.221	0.446	0.667	0.000	1,715.610	1,715.610	0.476	0.000	1,725.607
													8			

Total	1.2991	15.1183	5.1189	0.0166	1.8511	0.4851	2.3362	0.2210	0.4463	0.6672	0.0000	1,715.6108	1,715.6108	0.4760	0.0000	1,725.6070
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.5028	3.9965	8.7764	0.0166	0.8038	0.0255	0.8293	0.1079	0.0254	0.1333	0.0000	1,714.172	1,714.172	0.4756	0.0000	1,724.1596
Total	0.5028	3.9965	8.7764	0.0166	0.8038	0.0255	0.8293	0.1079	0.0254	0.1333	0.0000	1,714.172	1,714.172	0.4756	0.0000	1,724.1596

	ROG	NOx	CO	SO2	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	61.2925	73.5654	-71.4513	0.0601	56.5800	94.7370	64.5023	51.1789	94.2994	80.0207	0.0000	0.0838	0.0838	0.0903	0.0000	0.0839

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Backfill Crew - Jan-Feb 2015	Grading	1/1/2015	2/28/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Backfill Crew - Jan-Feb 2015	Excavators	1	8.00	232	0.38
Backfill Crew - Jan-Feb 2015	Graders	1	8.00	235	0.36
Backfill Crew - Jan-Feb 2015	Rubber Tired Dozers	0	8.00	255	0.40
Backfill Crew - Jan-Feb 2015	Scrapers	0	8.00	361	0.48

Category	lb/day										lb/day									
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	147.8279	147.8279	147.8279	147.8279	7.9600e-003	147.9950	147.9950	147.9950	147.9950	147.9950
Total	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	147.8279	147.8279	147.8279	147.8279	7.9600e-003	147.9950	147.9950	147.9950	147.9950	147.9950

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.6696	0.0000	0.6696	0.0723	0.0000	0.0723			0.0000			0.0000
Off-Road	0.2435	3.9270	7.9148	0.0149	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0000	1.566.3446	1.566.3446	0.4676		1.576.1646
Total	0.2435	3.9270	7.9148	0.0149	0.6696	0.0244	0.6940	0.0723	0.0244	0.0967	0.0000	1,566.3446	1,566.3446	0.4676		1,576.1646

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
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
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

Worker	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	147.8279	147.8279	7.9600e-003	147.9950
Total	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	147.8279	147.8279	7.9600e-003	147.9950

LAX West Aircraft Maintenance Area Project - Backfill Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Roller; "Grader" = Loader.

Architectural Coating -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblGrading	AcresOfGrading	21.00	68.00
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	162.00	232.00
tblOffRoadEquipment	HorsePower	174.00	235.00
tblOffRoadEquipment	LoadFactor	0.41	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	1.3481	15.1251	5.0537	0.0165	1.8511	0.4851	2.3362	0.2210	0.4463	0.6672	0.0000	1,706.462	1,706.462	0.4760	0.0000	1,716.4585
												3	3			

Total	1.3481	15.1251	5.0537	0.0165	1.8511	0.4851	2.3362	0.2210	0.4463	0.6672	0.0000	1,706.4623	0.4760	0.0000	1,716.4585
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.5519	4.0033	8.7112	0.0165	0.8038	0.0255	0.8293	0.1079	0.0254	0.1333	0.0000	1,705.0239	1,705.0239	0.4756	0.0000	1,715.0111
Total	0.5519	4.0033	8.7112	0.0165	0.8038	0.0255	0.8293	0.1079	0.0254	0.1333	0.0000	1,705.0239	1,705.0239	0.4756	0.0000	1,715.0111

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	59.0631	73.5324	-72.3728	0.0605	56.5800	94.7370	64.5023	51.1789	94.2994	80.0207	0.0000	0.0843	0.0843	0.0903	0.0000	0.0843

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Backfill Crew - Jan-Feb 2015	Grading	1/1/2015	2/28/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Backfill Crew - Jan-Feb 2015	Excavators	1	8.00	232	0.38
Backfill Crew - Jan-Feb 2015	Graders	1	8.00	235	0.36
Backfill Crew - Jan-Feb 2015	Rubber Tired Dozers	0	8.00	255	0.40
Backfill Crew - Jan-Feb 2015	Scrapers	0	8.00	361	0.48

Category	lb/day										lb/day									
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	138.6793	138.6793	138.6793	7.9600e-003	138.8465					
Total	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	138.6793	138.6793	138.6793	7.9600e-003	138.8465					

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.6696	0.0000	0.6696	0.0723	0.0000	0.0723			0.0000			0.0000
Off-Road	0.2435	3.9270	7.9148	0.0149	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244	0.0000	1.566.3446	1.566.3446	0.4676		1.576.1646
Total	0.2435	3.9270	7.9148	0.0149	0.6696	0.0244	0.6940	0.0723	0.0244	0.0967	0.0000	1,566.3446	1,566.3446	0.4676		1,576.1646

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	138.6793	138.6793	7.9600e-003	138.8465
Total	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	138.6793	138.6793	7.9600e-003	138.8465

LAX West Aircraft Maintenance Area Project - Batch Plant Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = CAT 988 Loader

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	5.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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
2015	4.5281	48.3084	37.6649	0.0315	12.1783	2.2518	14.4301	6.6560	2.0717	8.7277	0.0000	3,279.244	3,279.244	0.9428	0.0000	3,299.0436
Total	4.5281	48.3084	37.6649	0.0315	12.1783	2.2518	14.4301	6.6560	2.0717	8.7277	0.0000	3,279.244	3,279.244	0.9428	0.0000	3,299.0436

Mitigated Construction

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
2015	0.7414	7.8434	16.5299	0.0315	4.8314	0.0494	4.8808	2.6176	0.0493	2.6668	0.0000	3,276.371	3,276.371	0.9420	0.0000	3,296.1527
Total	0.7414	7.8434	16.5299	0.0315	4.8314	0.0494	4.8808	2.6176	0.0493	2.6668	0.0000	3,276.371	3,276.371	0.9420	0.0000	3,296.1527

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	83.6266	83.7638	56.1131	0.0953	60.3281	97.8067	66.1767	60.6740	97.6208	69.4440	0.0000	0.0876	0.0876	0.0912	0.0000	0.0876

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Batch Plant Crew - Jan-Feb 2015	Site Preparation	1/1/2015	2/28/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Batch Plant Crew - Jan-Feb 2015	Rubber Tired Dozers	21	8.00	475	0.36
Batch Plant Crew - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Batch Plant Crew - Jan-Feb 2015	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Batch Plant Crew - Jan-Feb 2015 - 2015**Unmitigated Construction On-Site**

Acres of Grading: 0

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
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	4.2688	48.2389	36.8034	0.0298		2.2506	2.2506		2.0706	2.0706		3,131.4166	3,131.4166	0.9349		3,151.0486
Total	4.2688	48.2389	36.8034	0.0298	12.0442	2.2506	14.2948	6.6205	2.0706	8.6910		3,131.4166	3,131.4166	0.9349		3,151.0486

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
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
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
Worker	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		147.8279	147.8279	7.9600e-003		147.9950
Total	0.2593	0.0695	0.8615	1.7000e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		147.8279	147.8279	7.9600e-003		147.9950

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust	"	"	"	"	4.6972	0.0000	4.6972	2.5820	0.0000	2.5820	"	"	0.0000	"	"	0.0000
Off-Road	"	0.4821	7.7739	15.6684	0.0298	0.0482	0.0482	"	0.0482	0.0482	0.0000	3,128.5437	3,128.5437	0.9340	"	3,148.1577
Total	"	0.4821	7.7739	15.6684	0.0298	0.0482	4.7454	2.5820	0.0482	2.6302	0.0000	3,128.5437	3,128.5437	0.9340	"	3,148.1577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	"	0.2593	0.0695	0.8615	1.7000e-003	1.1800e-003	0.1341	0.0356	1.0800e-003	0.0367	"	147.8279	147.8279	7.9600e-003	"	147.9950
Total	"	0.2593	0.0695	0.8615	1.7000e-003	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367	"	147.8279	147.8279	7.9600e-003	"	147.9950

LAX West Aircraft Maintenance Area Project - Batch Plant Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozer" = CAT 988 Loader

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Batch Plant Crew - Jan-Feb 2015	Rubber Tired Dozers	21	8.00	475	0.36
Batch Plant Crew - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Batch Plant Crew - Jan-Feb 2015	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Batch Plant Crew - Jan-Feb 2015 - 2015**Unmitigated Construction On-Site****Acres of Grading: 0**

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
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	4.2688	48.2389	36.8034	0.0298		2.2506	2.2506		2.0706	2.0706		3,131.4166	3,131.4166	0.9349		3,151.0486
Total	4.2688	48.2389	36.8034	0.0298	12.0442	2.2506	14.2948	6.6205	2.0706	8.6910		3,131.4166	3,131.4166	0.9349		3,151.0486

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		138.6793	138.6793	7.9600e-003		138.8465
Total	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		138.6793	138.6793	7.9600e-003		138.8465

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	0.4821	7.7739	15.6684	0.0298		0.0482	0.0482		0.0482	0.0482	0.0000	3,128.5437	3,128.5437	0.9340		3,148.1577
Total	0.4821	7.7739	15.6684	0.0298	4.6972	0.0482	4.7454	2.5820	0.0482	2.6302	0.0000	3,128.5437	3,128.5437	0.9340		3,148.1577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		138.6793	138.6793	7.9600e-003		138.8465
Total	0.3083	0.0763	0.7963	1.5900e-003	0.1341	1.1800e-003	0.1353	0.0356	1.0800e-003	0.0367		138.6793	138.6793	7.9600e-003		138.8465

LAX West Aircraft Maintenance Area Project - Building Systems Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	86.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	125.00
tblOffRoadEquipment	HorsePower	89.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	28.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.8395	10.7165	10.6748	0.0117	0.3130	0.8376	1.1505	0.0830	0.7706	0.8536	0.0000	1,163.266	1,163.266	0.2629	0.0000	11,168.7867
												2	2			
Total	2.8395	10.7165	10.6748	0.0117	0.3130	0.8376	1.1505	0.0830	0.7706	0.8536	0.0000	1,163.266	1,163.266	0.2629	0.0000	1,168.7867
												2	2			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.3786	6.4902	10.5178	0.0117	0.3130	0.5349	0.8479	0.0830	0.4926	0.5756	0.0000	1,162.515	1,162.515	0.2627	0.0000	11,168.0312
												5	5			
Total	2.3786	6.4902	10.5178	0.0117	0.3130	0.5349	0.8479	0.0830	0.4926	0.5756	0.0000	1,162.515	1,162.515	0.2627	0.0000	1,168.0312
												5	5			

	ROG	NOx	CO	SO2	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	16.2336	39.4373	1.4702	0.0000	0.0000	36.1319	26.3024	0.0000	36.0755	32.5663	0.0000	0.0645	0.0645	0.0875	0.0000	0.0646

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Systems Crew - Jan-Apr	Building Construction	1/1/2015	4/30/2015	5	86	
	2015						

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Systems Crew - Jan-Apr 2015	Cranes	1	8.00	125	0.31
Building Systems Crew - Jan-Apr 2015	Forklifts	3	8.00	50	0.31
Building Systems Crew - Jan-Apr 2015	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Jan-Apr 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Jan-Apr 2015	Welders	0	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
Building Systems Crew - Jan-Apr 2015	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Building Systems Crew - Jan-Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	2.2345	10.5543	8.6646	7.7600e-003	0.8348	0.8348	0.8348	0.7680	0.7680	0.7680	818.3346	818.3346	0.2443			823.4650
Total	2.2345	10.5543	8.6646	7.7600e-003	0.8348	0.8348	0.8348	0.7680	0.7680	0.7680	818.3346	818.3346	0.2443			823.4650

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
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	0.6050	0.1621	2.0102	3.9700e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855	344.9316	344.9316	0.0186			345.3217
Total	0.6050	0.1621	2.0102	3.9700e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855	344.9316	344.9316	0.0186			345.3217

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7736	6.3281	8.5076	7.7500e-003		0.5322	0.5322		0.4901	0.4901	0.0000	817.5838	817.5838	0.2441		822.7095
Total	1.7736	6.3281	8.5076	7.7500e-003		0.5322	0.5322		0.4901	0.4901	0.0000	817.5838	817.5838	0.2441		822.7095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6050	0.1621	2.0102	3.9700e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855		344.9316	344.9316	0.0186		345.3217
Total	0.6050	0.1621	2.0102	3.9700e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855		344.9316	344.9316	0.0186		345.3217

LAX West Aircraft Maintenance Area Project - Building Systems Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift; "Forklift" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tbiConstEquipMitigation	Tier	No Change	Tier 4 Interim
tbiConstructionPhase	NumDays	1,110.00	86.00
tbiLandUse	LandUseSquareFeet	2,395,800.00	0.00
tbiOffRoadEquipment	HorsePower	226.00	125.00
tbiOffRoadEquipment	HorsePower	89.00	50.00
tbiOffRoadEquipment	LoadFactor	0.29	0.31
tbiOffRoadEquipment	LoadFactor	0.20	0.31
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	28.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.9540	10.7323	10.5227	0.0115	0.3130	0.8376	1.1505	0.0830	0.7706	0.8536	0.0000	1,141.919	1,141.919	0.2629	0.0000	1,147.4401
												6	6			
Total	2.9540	10.7323	10.5227	0.0115	0.3130	0.8376	1.1505	0.0830	0.7706	0.8536	0.0000	1,141.919	1,141.919	0.2629	0.0000	1,147.4401
												6	6			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.4930	6.5060	10.3657	0.0115	0.3130	0.5349	0.8479	0.0830	0.4926	0.5756	0.0000	1,141.168	1,141.168	0.2627	0.0000	1,146.6846
												9	9			
Total	2.4930	6.5060	10.3657	0.0115	0.3130	0.5349	0.8479	0.0830	0.4926	0.5756	0.0000	1,141.168	1,141.168	0.2627	0.0000	1,146.6846
												9	9			

	ROG	NOx	CO	SO2	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	15.6044	39.3791	1.4914	0.0871	0.0000	36.1319	26.3024	0.0000	36.0755	32.5663	0.0000	0.0657	0.0657	0.0875	0.0000	0.0658

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Systems Crew - Jan-Apr 2015	Building Construction	1/1/2015	4/30/2015	5	86	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Systems Crew - Jan-Apr 2015	Cranes	1	8.00	125	0.31
Building Systems Crew - Jan-Apr 2015	Forklifts	3	8.00	50	0.31
Building Systems Crew - Jan-Apr 2015	Generator Sets	0	8.00	84	0.74
Building Systems Crew - Jan-Apr 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Systems Crew - Jan-Apr 2015	Welders	0	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
Building Systems Crew - Jan-Apr 2015	4	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Building Systems Crew - Jan-Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	2.2345	10.5543	8.6646	7.7600e-003	0.8348	0.8348	0.8348	0.7680	0.7680	0.7680	818.3346	818.3346	0.2443			823.4650
Total	2.2345	10.5543	8.6646	7.7600e-003	0.8348	0.8348	0.8348	0.7680	0.7680	0.7680	818.3346	818.3346	0.2443			823.4650

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
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	0.7195	0.1780	1.8581	3.7200e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855	323.5851	323.5851	0.0186			323.9751
Total	0.7195	0.1780	1.8581	3.7200e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855	323.5851	323.5851	0.0186			323.9751

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7736	6.3281	8.5076	7.7500e-003		0.5322	0.5322		0.4901	0.4901	0.0000	817.5838	817.5838	0.2441		822.7095
Total	1.7736	6.3281	8.5076	7.7500e-003		0.5322	0.5322		0.4901	0.4901	0.0000	817.5838	817.5838	0.2441		822.7095

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.7195	0.1780	1.8581	3.7200e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855		323.5851	323.5851	0.0186		323.9751
Total	0.7195	0.1780	1.8581	3.7200e-003	0.3130	2.7500e-003	0.3157	0.0830	2.5200e-003	0.0855		323.5851	323.5851	0.0186		323.9751

LAX West Aircraft Maintenance Area Project - Demolition Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Air Compressor; Excavator; "Rubber Tired Dozer" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Loader; Excavator; "Rubber Tired Dozer" = Air Compressor.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Demolition -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstructionPhase		NumDays	70.00			22.00
tblConstructionPhase		NumDays	70.00			22.00
tblConstructionPhase		PhaseEndDate	6/1/2015			4/30/2015
tblConstructionPhase		PhaseStartDate	5/1/2015			4/1/2015
tblLandUse		LandUseSquareFeet	2,395,800.00			0.00
tblOffRoadEquipment		HorsePower	81.00			170.00
tblOffRoadEquipment		HorsePower	162.00			247.00
tblOffRoadEquipment		HorsePower	162.00			350.00
tblOffRoadEquipment		HorsePower	255.00			475.00
tblOffRoadEquipment		LoadFactor	0.73			0.48
tblOffRoadEquipment		LoadFactor	0.38			0.31
tblOffRoadEquipment		LoadFactor	0.40			0.36
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00			2.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00			8.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	2.00			0.00
tblProjectCharacteristics		CO2IntensityFactor	1227.89			1104
tblProjectCharacteristics		OperationalYear	2014			2018
tblTripsAndVMT		WorkerTripNumber	13.00			30.00
tblTripsAndVMT		WorkerTripNumber	20.00			0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	10.1086	117.3791	67.9498	0.1333	0.3353	4.5876	4.9230	0.0889	4.2444	4.3334	0.0000	13,819.70	13,819.70	3.8516	0.0000	13,900.5838
Total	10.1086	117.3791	67.9498	0.1333	0.3353	4.5876	4.9230	0.0889	4.2444	4.3334	0.0000	13,819.70	13,819.70	3.8516	0.0000	13,900.5838

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.7767	35.0364	71.5091	0.1331	0.3353	0.2115	0.5468	0.0889	0.2112	0.3002	0.0000	13,807.3605	13,807.3605	3.8481	0.0000	13,888.1703
Total	2.7767	35.0364	71.5091	0.1331	0.3353	0.2115	0.5468	0.0889	0.2112	0.3002	0.0000	13,807.3605	13,807.3605	3.8481	0.0000	13,888.1703

	ROG	NOx	CO	SO2	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	72.5311	70.1510	-5.2383	0.0900	0.0000	95.3900	88.8927	0.0000	95.0231	93.0731	0.0000	0.0893	0.0893	0.0914	0.0000	0.0893

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 Crew pt. 1- Apr 2015	Demolition	4/1/2015	4/30/2015	5	22	
2	Demolition Crew pt. 2 - Apr 2015	Demolition	4/1/2015	4/30/2015	5	22	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Crew pt. 1- Apr 2015	Concrete/Industrial Saws	1	8.00	170	0.48
Demolition Crew pt. 1- Apr 2015	Excavators	2	8.00	247	0.38
Demolition Crew pt. 1- Apr 2015	Rubber Tired Dozers	2	8.00	475	0.36
Demolition Crew pt. 2 - Apr 2015	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Crew pt. 2 - Apr 2015	Excavators	8	8.00	350	0.31
Demolition Crew pt. 2 - Apr 2015	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition Crew pt. 1- Apr 2015	5	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Crew pt. 2 - Apr 2015	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction
 Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Demolition Crew pt. 1- Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	5.9081	68.0033	45.6400	0.0546		2.9891	2.9891		2.7738	2.7738		5,644.620	5,644.620	1.5014		5,676.1502
												2	2			
Total	5.9081	68.0033	45.6400	0.0546		2.9891	2.9891		2.7738	2.7738		5,644.620	5,644.620	1.5014		5,676.1502
												2	2			

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
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	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		369.5696	369.5696	0.0199		369.9875
Total	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		369.5696	369.5696	0.0199		369.9875

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	0.9049	15.1324	29.5887	0.0545		0.0862	0.0862		0.0862	0.0862		5,639.441	5,639.441	1.5001		5,670.9427
												6	6			
Total	0.9049	15.1324	29.5887	0.0545		0.0862	0.0862		0.0862	0.0862		5,639.441	5,639.441	1.5001		5,670.9427
												6	6			

Mitigated Construction Off-Site

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.2236	19.7304	39.7666	0.0744		0.1224	0.1224		0.1224	0.1224	0.0000	7,798.3493	7,798.3493	2.3281		17,847.2401
Total	1.2236	19.7304	39.7666	0.0744		0.1224	0.1224		0.1224	0.1224	0.0000	7,798.3493	7,798.3493	2.3281		17,847.2401

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Demolition Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Air Compressor; Excavator; "Rubber Tired Dozer" = Loader.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Concrete/Industrial Saw" = Loader; Excavator; "Rubber Tired Dozer" = Air Compressor.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Excavator" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Demolition -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	70.00	22.00

tblConstructionPhase	PhaseEndDate	6/1/2015	4/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	4/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	81.00	170.00
tblOffRoadEquipment	HorsePower	162.00	247.00
tblOffRoadEquipment	HorsePower	162.00	350.00
tblOffRoadEquipment	HorsePower	255.00	475.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	LoadFactor	0.38	0.31
tblOffRoadEquipment	LoadFactor	0.40	0.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	10.2312	117.3961	67.7868	0.1330	0.3353	4.5876	4.9230	0.0889	4.2444	4.3334	0.0000	13,796.82	13,796.82	3.8516	0.0000	113,877.712
												90	90			5
Total	10.2312	117.3961	67.7868	0.1330	0.3353	4.5876	4.9230	0.0889	4.2444	4.3334	0.0000	13,796.82	13,796.82	3.8516	0.0000	113,877.712
												90	90			5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.8993	35.0534	71.3462	0.1329	0.3353	0.2115	0.5468	0.0889	0.2112	0.3002	0.0000	13,784.48	13,784.48	3.8481	0.0000	113,865.298
												92	92			9
Total	2.8993	35.0534	71.3462	0.1329	0.3353	0.2115	0.5468	0.0889	0.2112	0.3002	0.0000	13,784.48	13,784.48	3.8481	0.0000	113,865.298
												92	92			9

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	71.6619	70.1409	-5.2509	0.0902	0.0000	95.3900	88.8927	0.0000	95.0231	93.0731	0.0000	0.0894	0.0914	0.0000	0.0894
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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 Crew pt. 1- Apr 2015	Demolition	4/1/2015	4/30/2015	5	22	
2	Demolition Crew pt. 2 - Apr 2015	Demolition	4/1/2015	4/30/2015	5	22	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition Crew pt. 1- Apr 2015	Concrete/Industrial Saws	1	8.00	170	0.48
Demolition Crew pt. 1- Apr 2015	Excavators	2	8.00	247	0.38
Demolition Crew pt. 1- Apr 2015	Rubber Tired Dozers	2	8.00	475	0.36
Demolition Crew pt. 2 - Apr 2015	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Crew pt. 2 - Apr 2015	Excavators	8	8.00	350	0.31
Demolition Crew pt. 2 - Apr 2015	Rubber Tired Dozers	0	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition Crew pt. 1- Apr 2015	5	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Crew pt. 2 - Apr 2015	8	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Clean Paved Roads

3.2 Demolition Crew pt. 1- Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	5.9081	68.0033	45.6400	0.0546		2.9891	2.9891		2.7738	2.7738		5,644.6202	5,644.6202	1.5014		15,676.1502
Total	5.9081	68.0033	45.6400	0.0546		2.9891	2.9891		2.7738	2.7738		5,644.6202	5,644.6202	1.5014		15,676.1502

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		346.6983	346.6983	0.0199		347.1161
Total	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		346.6983	346.6983	0.0199		347.1161

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
Off-Road	0.9049	15.1324	29.5887	0.0545		0.0862	0.0862		0.0862	0.0862	0.0000	5,639.4416	5,639.4416	1.5001		15,670.9427
Total	0.9049	15.1324	29.5887	0.0545		0.0862	0.0862		0.0862	0.0862	0.0000	5,639.4416	5,639.4416	1.5001		15,670.9427

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	Fugitive PM2.5	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day								lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-	0.0000
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
Worker	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.0889	2.7000e-003	346.6983	346.6983	346.6983	0.0199	-	347.1161
Total	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.0889	2.7000e-003	346.6983	346.6983	346.6983	0.0199	-	347.1161

3.3 Demolition Crew pt. 2 - Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	3.5522	49.2020	20.1560	0.0744		1.5956	1.5956		1.4679	1.4679		7,805.510	7,805.510	2.3303		17,854.4462
												5	5			
Total	3.5522	49.2020	20.1560	0.0744		1.5956	1.5956		1.4679	1.4679		7,805.510	7,805.510	2.3303		17,854.4462
												5	5			

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day							lb/day								
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.2236	19.7304	39.7666	0.0744		0.1224	0.1224		0.1224	0.1224	0.0000	7,798.3493	7,798.3493	2.3281		7,847.2401
Total	1.2236	19.7304	39.7666	0.0744		0.1224	0.1224		0.1224	0.1224	0.0000	7,798.3493	7,798.3493	2.3281		7,847.2401

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Drainage Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	PhaseEndDate	6/1/2015	4/30/2015
tblConstructionPhase	PhaseEndDate	6/1/2015	6/30/2015
tblConstructionPhase	PhaseEndDate	7/30/2015	6/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	4/1/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	6/1/2015
tblConstructionPhase	PhaseStartDate	7/1/2015	6/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00
tblTripsAndVMT	WorkerTripNumber	53.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	4.6752	52.7760	28.3448	0.0447	0.1788	2.2622	2.4410	0.0474	2.0961	2.1435	0.0000	4,597.8866	4,597.8866	1.1975	0.0000	4,623.0331
Total	4.6752	52.7760	28.3448	0.0447	0.1788	2.2622	2.4410	0.0474	2.0961	2.1435	0.0000	4,597.8866	4,597.8866	1.1975	0.0000	4,623.0331

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	1.0537	11.8739	24.2789	0.0447	0.1788	0.0695	0.2483	0.0474	0.0693	0.1168	0.0000	4,593.849	4,593.849	1.1964	0.0000	4,618.9728
Total	1.0537	11.8739	24.2789	0.0447	0.1788	0.0695	0.2483	0.0474	0.0693	0.1168	0.0000	4,593.849	4,593.849	1.1964	0.0000	4,618.9728

	ROG	NOx	CO	SO2	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	77.4620	77.5014	14.3444	0.0894	0.0000	96.9295	89.8280	0.0000	96.6923	94.5528	0.0000	0.0878	0.0878	0.0910	0.0000	0.0878

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Drainage Crew pt.1 - Apr 2015	Building Construction	4/1/2015	4/30/2015	5	221	
2	Drainage Crew pt.2 - Apr 2015	Building Construction	4/1/2015	4/30/2015	5	221	
3	Drainage Crew pt.1 - Jun 2015	Building Construction	6/1/2015	6/30/2015	5	221	
4	Drainage Crew pt.2 - Jun 2015	Building Construction	6/1/2015	6/30/2015	5	221	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Drainage Crew pt.1 - Apr 2015	Cranes	1	8.00	247	0.38
Drainage Crew pt.1 - Apr 2015	Forklifts	1	8.00	235	0.36
Drainage Crew pt.1 - Apr 2015	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.1 - Apr 2015	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.1 - Apr 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Apr 2015	Cranes	2	8.00	350	0.31
Drainage Crew pt.2 - Apr 2015	Forklifts	0	8.00	89	0.20
Drainage Crew pt.2 - Apr 2015	Generator Sets	0	8.00	84	0.74
Drainage Crew pt.2 - Apr 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.2 - Apr 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.1 - Jun 2015	Cranes	1	8.00	247	0.38
Drainage Crew pt.2 - Jun 2015	Cranes	2	8.00	350	0.31
Drainage Crew pt.1 - Jun 2015	Forklifts	1	8.00	235	0.36
Drainage Crew pt.2 - Jun 2015	Forklifts	0	8.00	89	0.20
Drainage Crew pt.1 - Jun 2015	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.2 - Jun 2015	Generator Sets	0	8.00	84	0.74

Drainage Crew pt.1 - Jun 2015	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.2 - Jun 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.1 - Jun 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Jun 2015	Welders	0	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
Drainage Crew pt.1 - Apr 2015	4	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Crew pt.2 - Apr 2015	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Crew pt.1 - Jun 2015	4	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Drainage Crew pt.2 - Jun 2015	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Drainage Crew pt.1 - Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.5114	29.2453	11.4677	0.0238		1.2909	1.2909		1.2025	1.2025		2,444.316	2,444.316	0.6028		2,456.9741
												2	2			
Total	2.5114	29.2453	11.4677	0.0238		1.2909	1.2909		1.2025	1.2025		2,444.316	2,444.316	0.6028		2,456.9741
												2	2			

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267
Total	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.0737	2,442.0737	0.6022		2,454.7199
Total	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.0737	2,442.0737	0.6022		2,454.7199

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267
Total	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267

3.3 Drainage Crew pt.2 - Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921		1,956.4665	1,956.4665	0.5841		11,968.7324
Total	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921		1,956.4665	1,956.4665	0.5841		1,968.7324

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
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
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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

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
Off-Road	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306		0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262
Total	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306		0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262

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
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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267
Total	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	197.1038	197.1038	197.1038	0.0106		197.3267

3.5 Drainage Crew pt.2 - Jun 2015 - 2015**Unmitigated Construction On-Site****Acres of Paving: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921	1,956.4665	1,956.4665	1,956.4665	0.5841		11,968.7324
Total	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921	1,956.4665	1,956.4665	1,956.4665	0.5841		1,968.7324

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306		0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262
Total	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306		0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Drainage Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Welder" = Dump Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Grading -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck; "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Compactor; "Tractor/Loader/Backhoe" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck

Table Name	Column Name	Default Value	New Value
tbiConstEquipMitigation	NumberOffEquipmentMitigated	0.00	6.00
tbiConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tbiConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00
tbiConstEquipMitigation	NumberOffEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	PhaseEndDate	6/1/2015	4/30/2015
tblConstructionPhase	PhaseEndDate	6/1/2015	6/30/2015
tblConstructionPhase	PhaseEndDate	7/30/2015	6/30/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	4/1/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	6/1/2015
tblConstructionPhase	PhaseStartDate	7/1/2015	6/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	145.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	76.3933	77.4880	14.3885	0.0897	0.0000	96.9295	89.8280	0.0000	96.6923	94.5528	0.0000	0.0880	0.0910	0.0000	0.0881

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Drainage Crew pt.1 - Apr 2015	Building Construction	4/1/2015	4/30/2015	5	22	
2	Drainage Crew pt.2 - Apr 2015	Building Construction	4/1/2015	4/30/2015	5	22	
3	Drainage Crew pt.1 - Jun 2015	Building Construction	6/1/2015	6/30/2015	5	22	
4	Drainage Crew pt.2 - Jun 2015	Building Construction	6/1/2015	6/30/2015	5	22	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Drainage Crew pt.1 - Apr 2015	Cranes	1	8.00	247	0.38
Drainage Crew pt.1 - Apr 2015	Forklifts	1	8.00	235	0.36
Drainage Crew pt.1 - Apr 2015	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.1 - Apr 2015	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.1 - Apr 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Apr 2015	Cranes	2	8.00	350	0.31
Drainage Crew pt.2 - Apr 2015	Forklifts	0	8.00	89	0.20
Drainage Crew pt.2 - Apr 2015	Generator Sets	0	8.00	84	0.74
Drainage Crew pt.2 - Apr 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.2 - Apr 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.1 - Jun 2015	Cranes	1	8.00	247	0.38
Drainage Crew pt.2 - Jun 2015	Cranes	2	8.00	350	0.31
Drainage Crew pt.1 - Jun 2015	Forklifts	1	8.00	235	0.36
Drainage Crew pt.2 - Jun 2015	Forklifts	0	8.00	89	0.20
Drainage Crew pt.1 - Jun 2015	Generator Sets	1	8.00	145	0.38
Drainage Crew pt.2 - Jun 2015	Generator Sets	0	8.00	84	0.74
Drainage Crew pt.1 - Jun 2015	Tractors/Loaders/Backhoes	1	4.00	200	0.31
Drainage Crew pt.2 - Jun 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Drainage Crew pt.1 - Jun 2015	Welders	0	8.00	46	0.45
Drainage Crew pt.2 - Jun 2015	Welders	0	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
Drainage Crew pt.1 - Apr 2015	4	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT
Drainage Crew pt.2 - Apr 2015	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT
Drainage Crew pt.1 - Jun 2015	4	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT
Drainage Crew pt.2 - Jun 2015	2	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Drainage Crew pt.1 - Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.5114	29.2453	11.4677	0.0238		1.2909	1.2909		1.2025	1.2025		2,444.316	2,444.316	0.6028		12,456.9741
												2	2			
Total	2.5114	29.2453	11.4677	0.0238		1.2909	1.2909		1.2025	1.2025		2,444.316	2,444.316	0.6028		2,456.3741
												2	2			

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.073	2,442.073	0.6022		2,454.7199
													7	7		
Total	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.073	2,442.073	0.6022		2,454.7199
												7	7			

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day								lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286

3.3 Drainage Crew pt.2 - Apr 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921		1,956.4665	1,956.4665	0.5841		1,968.7324
Total	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697		0.8921	0.8921		1,956.4665	1,956.4665	0.5841		1,968.7324

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Category	lb/day								lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
"	"	"	"	"	"	"	"	"	"	"		"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"		"	"	"	"	"

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106		185.1286
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106		185.1286

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.0737	2,442.0737	0.6022		2,454.7193
Total	0.4021	6.8487	13.1886	0.0238		0.0373	0.0373		0.0373	0.0373	0.0000	2,442.0737	2,442.0737	0.6022		2,454.7193

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106		185.1286
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106		185.1286

3.5 Drainage Crew pt.2 - Jun 2015 - 2015**Unmitigated Construction On-Site**

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697	0.8921	0.8921	0.8921		1,956.4665	1,956.4665	0.5841		11,968.7324
Total	1.8180	23.4381	15.7285	0.0186		0.9697	0.9697	0.8921	0.8921	0.8921		1,956.4665	1,956.4665	0.5841		1,968.7324

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306	0.0306	0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262
Total	0.3059	4.9326	9.9417	0.0186		0.0306	0.0306	0.0306	0.0306	0.0306	0.0000	1,954.6716	1,954.6716	0.5836		1,966.9262

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project – Electrical Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher".
 "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher".
 "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	86.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	89.00	60.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	LoadFactor	0.20	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.8878	6.4757	4.7999	6.3700e-003	0.0894	0.5240	0.6135	0.0237	0.4821	0.5058	0.0000	649.0543	649.0543	0.1697	0.0000	652.6170
Total	0.8878	6.4757	4.7999	6.3700e-003	0.0894	0.5240	0.6135	0.0237	0.4821	0.5058	0.0000	649.0543	649.0543	0.1697	0.0000	652.6170

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.2958	2.7935	4.5325	6.3700e-003	0.0894	0.0903	0.1797	0.0237	0.0606	0.0843	0.0000	648.5492	648.5492	0.1695	0.0000	652.1088
Total	0.2958	2.7935	4.5325	6.3700e-003	0.0894	0.0903	0.1797	0.0237	0.0606	0.0843	0.0000	648.5492	648.5492	0.1695	0.0000	652.1088

	ROG	NOx	CO	SO2	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	66.6802	56.8623	5.5716	0.0000	0.0000	82.7685	70.7039	0.0000	87.4243	83.3264	0.0000	0.0778	0.0778	0.0884	0.0000	0.0779

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
--------------	------------	------------	------------	----------	---------------	----------	-------------------

Category	lb/day										lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	5.3100e-003	98.6633
Total	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	5.3100e-003	98.6633

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1230	2.7472	3.9581	5.2300e-003		0.0895	0.0895		0.0599	0.0599	0.0000	549.9973	549.9973	0.1642		553.4455
Total	0.1230	2.7472	3.9581	5.2300e-003		0.0895	0.0895		0.0599	0.0599	0.0000	549.9973	549.9973	0.1642		553.4455

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633
Total	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633

LAX West Aircraft Maintenance Area Project – Electrical Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Forklifts" = "Ditch Witch RT 55 Trencher". "Tractors/Loaders/Backhoes" = "CAT 428 Backhoe".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	86.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	89.00	60.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	LoadFactor	0.20	0.50

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Electrical Crew 2015	Building Construction	1/1/2015	4/30/2015	5	86	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Electrical Crew 2015	Cranes	0	7.00	226	0.29
Electrical Crew 2015	Forklifts	1	8.00	60	0.50
Electrical Crew 2015	Generator Sets	0	8.00	84	0.74
Electrical Crew 2015	Welders	0	8.00	46	0.45
Electrical Crew 2015	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Electrical Crew 2015	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Electrical Crew 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.7150	6.4294	4.2255	5.2400e-003	0.5233	0.5233	0.5233	0.4814	0.4814	0.4814		550.5024	550.5024	0.1644		553.9537
Total	0.7150	6.4294	4.2255	5.2400e-003	0.5233	0.5233	0.5233	0.4814	0.4814	0.4814		550.5024	550.5024	0.1644		553.9537

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	92.4529	92.4529	5.3100e-003			92.5643
Total	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	92.4529	92.4529	5.3100e-003			92.5643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1230	2.7472	3.9581	5.2300e-003		0.0895	0.0895		0.0599	0.0599	0.0000	549.9973	549.9973	0.1642		553.4455
Total	0.1230	2.7472	3.9581	5.2300e-003		0.0895	0.0895		0.0599	0.0599	0.0000	549.9973	549.9973	0.1642		553.4455

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	92.4529	92.4529	5.3100e-003			92.5643
Total	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	92.4529	92.4529	5.3100e-003			92.5643

LAX West Aircraft Maintenance Area Project - Fence Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	20.00
tblConstructionPhase	NumDays	40.00	22.00
tblConstructionPhase	NumDays	40.00	45.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	3/31/2015	4/30/2015
tblConstructionPhase	PhaseEndDate	7/2/2015	7/31/2015

tblConstructionPhase	PhaseStartDate	3/1/2015	4/1/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	6/1/2015
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.5771	5.4006	2.1195	3.8600e-003	3.0558	0.2657	3.3215	1.6670	0.2444	1.9114	0.0000	395.9796	395.9796	0.1062	0.0000	398.2089
Total	0.5771	5.4006	2.1195	3.8600e-003	3.0558	0.2657	3.3215	1.6670	0.2444	1.9114	0.0000	395.9796	395.9796	0.1062	0.0000	398.2089

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.1403	0.8913	2.0368	3.8600e-003	1.2190	5.7800e-003	1.2248	0.6574	5.7400e-003	0.6631	0.0000	395.6615	395.6615	0.1061	0.0000	397.8888
Total	0.1403	0.8913	2.0368	3.8600e-003	1.2190	5.7800e-003	1.2248	0.6574	5.7400e-003	0.6631	0.0000	395.6615	395.6615	0.1061	0.0000	397.8888

	ROG	NOx	CO	SO2	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	75.6919	83.4973	3.9023	0.0000	60.1073	97.8246	63.1248	60.5662	97.6518	65.3083	0.0000	0.0803	0.0803	0.0942	0.0000	0.0804

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fence Crew Feb	Site Preparation	2/1/2015	2/28/2015	5	20	
2	Fence Crew Apr	Site Preparation	4/1/2015	4/30/2015	5	22	
3	Fence Crew June-July	Site Preparation	6/1/2015	7/31/2015	5	45	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fence Crew Feb	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew Feb	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fence Crew Apr	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew Apr	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fence Crew June-July	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew June-July	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Fence Crew Feb	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fence Crew Apr	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fence Crew June-July	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Fence Crew Feb - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509	0.0000	346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

3.3 Fence Crew Apr - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509	0.0000	346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

3.4 Fence Crew June-July - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003		346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509		346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317
Total	0.0864	0.0232	0.2872	5.7000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		49.2760	49.2760	2.6500e-003		49.3317

LAX West Aircraft Maintenance Area Project - Fence Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Rubber Tired Dozers" = "Flat Bed Truck"

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	20.00
tblConstructionPhase	NumDays	40.00	22.00
tblConstructionPhase	NumDays	40.00	45.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	3/31/2015	4/30/2015

tblConstructionPhase	PhaseEndDate	7/2/2015	7/31/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	4/1/2015
tblConstructionPhase	PhaseStartDate	5/1/2015	6/1/2015
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	HorsePower	255.00	200.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.5934	5.4029	2.0978	3.8300e-003	3.0558	0.2657	3.3215	1.6670	0.2444	1.9114	0.0000	392.9300	392.9300	0.1062	0.0000	395.1594
Total	0.5934	5.4029	2.0978	3.8300e-003	3.0558	0.2657	3.3215	1.6670	0.2444	1.9114	0.0000	392.9300	392.9300	0.1062	0.0000	395.1594

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.1566	0.8935	2.0151	3.8300e-003	1.2190	5.7800e-003	1.2248	0.6574	5.7400e-003	0.6631	0.0000	392.6120	392.6120	0.1061	0.0000	394.8393
Total	0.1566	0.8935	2.0151	3.8300e-003	1.2190	5.7800e-003	1.2248	0.6574	5.7400e-003	0.6631	0.0000	392.6120	392.6120	0.1061	0.0000	394.8393

	ROG	NOx	CO	SO2	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	73.6063	83.4622	3.9427	0.0000	60.1073	97.8246	63.1248	60.5662	97.6518	65.3083	0.0000	0.0810	0.0810	0.0942	0.0000	0.0810

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fence Crew Feb	Site Preparation	2/1/2015	2/28/2015	5	20	
2	Fence Crew Apr	Site Preparation	4/1/2015	4/30/2015	5	22	
3	Fence Crew June-July	Site Preparation	6/1/2015	7/31/2015	5	45	

OffRoad Equipment

Phase Name	Offroad Equipment Count	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fence Crew Feb	1	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew Feb	1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fence Crew Apr	1	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew Apr	1	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Fence Crew June-July	1	Rubber Tired Dozers	1	4.00	200	0.38
Fence Crew June-July	1	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Fence Crew Feb	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT
Fence Crew Apr	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT
Fence Crew June-July	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HDT

3.1 Mitigation Measures Construction
 Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Fence Crew Feb - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		46.2264	46.2264	2.6500e-003		46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		46.2264	46.2264	2.6500e-003		46.2822

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509	0.0000	346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	2.6500e-003			46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	2.6500e-003			46.2822

3.3 Fence Crew Apr - 2015**Unmitigated Construction On-Site****Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	2.6500e-003			46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	2.6500e-003			46.2822

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509	0.0000	346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		46.2264	46.2264	2.6500e-003		46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122		46.2264	46.2264	2.6500e-003		46.2822

3.4 Fence Crew June-July - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.4906	5.3775	1.8323	3.3000e-003		0.2653	0.2653		0.2441	0.2441		346.7036	346.7036	0.1035		348.8772
Total	0.4906	5.3775	1.8323	3.3000e-003	3.0110	0.2653	3.2764	1.6551	0.2441	1.8992		346.7036	346.7036	0.1035		348.8772

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	46.2264	2.6500e-003		46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	46.2264	2.6500e-003		46.2822

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					1.1743	0.0000	1.1743	0.6455	0.0000	0.6455			0.0000			0.0000
Off-Road	0.0538	0.8681	1.7496	3.2900e-003		5.3800e-003	5.3800e-003		5.3800e-003	5.3800e-003	0.0000	346.3855	346.3855	0.1034		348.5571
Total	0.0538	0.8681	1.7496	3.2900e-003	1.1743	5.3800e-003	1.1797	0.6455	5.3800e-003	0.6509	0.0000	346.3855	346.3855	0.1034		348.5571

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	46.2264	2.6500e-003		46.2822
Total	0.1028	0.0254	0.2654	5.3000e-004	0.0447	3.9000e-004	0.0451	0.0119	3.6000e-004	0.0122	46.2264	46.2264	46.2264	2.6500e-003		46.2822

LAX West Aircraft Maintenance Area Project - Finish Saw/Sealing Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	66.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	85.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	1.8464	16.2736	7.3486	0.0114	0.1118	0.9375	1.0492	0.0296	0.8625	0.8921	0.0000	1,176.664	1,176.664	0.3211	0.0000	1,183.4082
												3	3			
Total	1.8464	16.2736	7.3486	0.0114	0.1118	0.9375	1.0492	0.0296	0.8625	0.8921	0.0000	1,176.664	1,176.664	0.3211	0.0000	1,183.4082
												3	3			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.4023	3.5109	6.8598	0.0114	0.1118	0.0520	0.1637	0.0296	0.0519	0.0815	0.0000	1,175.697	1,175.697	0.3209	0.0000	1,182.4357
												8	8			
Total	0.4023	3.5109	6.8598	0.0114	0.1118	0.0520	0.1637	0.0296	0.0519	0.0815	0.0000	1,175.697	1,175.697	0.3209	0.0000	1,182.4357
												8	8			

	ROG	NOx	CO	SO2	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	78.2115	78.4259	6.6516	0.0875	0.0000	94.4574	84.3954	0.0000	93.9847	90.8621	0.0000	0.0821	0.0821	0.0903	0.0000	0.0822

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Finish Saw & Sealing Crew - May 1 Jul 2015	Building Construction	5/1/2015	7/31/2015	5	66	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Finish Saw & Sealing Crew - May-Jul	Cranes	1	8.00	85	0.48
Finish Saw & Sealing Crew - May-Jul	Forklifts	1	8.00	200	0.38
Finish Saw & Sealing Crew - May-Jul	Generator Sets	0	8.00	84	0.74
Finish Saw & Sealing Crew - May-Jul	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Finish Saw & Sealing Crew - May-Jul	Welders	0	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
Finish Saw & Sealing Crew - May-Jul 2015	2	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Finish Saw & Sealing Crew - May-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.6303	16.2157	6.6307	0.0100		0.9365	0.9365		0.8616	0.8616		1,053.474	1,053.474	0.3145		1,060.0791
Total	1.6303	16.2157	6.6307	0.0100		0.9365	0.9365		0.8616	0.8616		1,053.474	1,053.474	0.3145		1,060.0791

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	123.1899	123.1899	123.1899	6.6300e-003		123.3292
Total	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	123.1899	123.1899	123.1899	6.6300e-003		123.3292

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1862	3.4530	6.1419	0.0100		0.0510	0.0510		0.0510	0.0510	0.0000	1,052.5079	1,052.5079	0.3142		1,059.1065
Total	0.1862	3.4530	6.1419	0.0100		0.0510	0.0510		0.0510	0.0510	0.0000	1,052.5079	1,052.5079	0.3142		1,059.1065

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	123.1899	123.1899	123.1899	6.6300e-003		123.3292
Total	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	123.1899	123.1899	123.1899	6.6300e-003		123.3292

LAX West Aircraft Maintenance Area Project - Finish Saw/Sealing Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Air Compressor; "Forklift" = Truck.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	66.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	85.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.48
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Finish Saw & Sealing Crew - May-Jul 2015	Cranes	1	8.00	85	0.48
Finish Saw & Sealing Crew - May-Jul 2015	Forklifts	1	8.00	200	0.38
Finish Saw & Sealing Crew - May-Jul 2015	Generator Sets	0	8.00	84	0.74
Finish Saw & Sealing Crew - May-Jul 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Finish Saw & Sealing Crew - May-Jul 2015	Welders	0	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
Finish Saw & Sealing Crew - May-Jul 2015	2	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Finish Saw & Sealing Crew - May-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.6303	16.2157	6.6307	0.0100	0.9365	0.9365	0.9365	0.8616	0.8616	0.8616		1,053.474	1,053.474	0.3145		1,060.0791
Total	1.6303	16.2157	6.6307	0.0100	0.9365	0.9365	0.9365	0.8616	0.8616	0.8616		1,053.474	1,053.474	0.3145	4	1,060.0791

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	115.5661	115.5661	115.5661	6.6300e-003		115.7054
Total	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	115.5661	115.5661	115.5661	6.6300e-003		115.7054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1862	3.4530	6.1419	0.0100		0.0510	0.0510		0.0510	0.0510	0.0000	1,052.5079	1,052.5079	0.3142		1,059.1065
Total	0.1862	3.4530	6.1419	0.0100		0.0510	0.0510		0.0510	0.0510	0.0000	1,052.5079	1,052.5079	0.3142		1,059.1065

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	115.5661	115.5661	115.5661	6.6300e-003		115.7054
Total	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	115.5661	115.5661	115.5661	6.6300e-003		115.7054

LAX West Aircraft Maintenance Area Project - Fuel Line/UG Utilities Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck; "Forklift" = Roller; "Generator" = Air Compressor; Welder.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	247500	187500
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	230.00	42.00
tblConstructionPhase	NumDays	230.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	4/28/2015	2/28/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	1/1/2015
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	400.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	232.00
tblOffRoadEquipment	HorsePower	84.00	85.00
tblOffRoadEquipment	HorsePower	46.00	30.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	LoadFactor	0.74	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	27.00	0.00
tblTripsAndVMT	VendorTripNumber	27.00	0.00
tblTripsAndVMT	WorkerTripNumber	69.00	36.00
tblTripsAndVMT	WorkerTripNumber	69.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	10.7238	112.4444	59.6652	0.1067	0.4024	4.9026	5.3050	0.1067	4.5871	4.6938	0.0000	11,223.45	11,223.45	2.3680	0.0000	11,273.1858
Total	10.7238	112.4444	59.6652	0.1067	0.4024	4.9026	5.3050	0.1067	4.5871	4.6938	0.0000	11,223.45	11,223.45	2.3680	0.0000	11,273.1858

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	3.2185	29.6285	58.1911	0.1066	0.4024	0.4273	0.8297	0.1067	0.4270	0.5337	0.0000	11,213.56	11,213.56	2.3659	0.0000	11,263.2506
Total	3.2185	29.6285	58.1911	0.1066	0.4024	0.4273	0.8297	0.1067	0.4270	0.5337	0.0000	11,213.56	11,213.56	2.3659	0.0000	11,263.2506

	ROG	NOx	CO	SO2	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	69.9871	73.6506	2.4705	0.0843	0.0000	91.2844	84.3602	0.0000	90.6912	88.6294	0.0000	0.0881	0.0881	0.0908	0.0000	0.0881

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Building Construction	1/1/2015	2/28/2015	5	42	
2	Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Building Construction	1/1/2015	2/28/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Cranes	3	8.00	350	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Forklifts	1	8.00	232	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Generator Sets	1	8.00	85	0.48
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Cranes	1	8.00	247	0.38
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Forklifts	2	8.00	235	0.36
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Generator Sets	2	8.00	400	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Welders	2	8.00	30	0.45
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Tractors/Loaders/Backhoes	1	8.00	83	0.37
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Welders	0	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
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	6	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	4.4399	52.8611	19.3790	0.0521		2.1986	2.1986		2.0630	2.0630		5,705.742	5,705.742	0.9171		5,725.0006
												4	4			
Total	4.4399	52.8611	19.3790	0.0521		2.1986	2.1986		2.0630	2.0630		5,705.742	5,705.742	0.9171		5,725.0006
												4	4			

Unmitigated Construction Off-Site

LAX West Aircraft Maintenance Area Project - Fuel Line/UG Utilities Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Excavator; "Forklift" = Loader; "Generator" = Truck/Tractor; Backhoe.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Dump Truck; "Forklift" = Roller; "Generator" = Air Compressor; Welder.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Interior	247500	187500
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	230.00	42.00
tblConstructionPhase	NumDays	230.00	42.00
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	4/28/2015	2/28/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	1/1/2015
tblOffRoadEquipment	HorsePower	226.00	247.00
tblOffRoadEquipment	HorsePower	89.00	235.00
tblOffRoadEquipment	HorsePower	84.00	400.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	232.00
tblOffRoadEquipment	HorsePower	84.00	85.00
tblOffRoadEquipment	HorsePower	46.00	30.00
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.36
tblOffRoadEquipment	LoadFactor	0.74	0.38
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.38
tblOffRoadEquipment	LoadFactor	0.74	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	27.00	0.00
tblTripsAndVMT	VendorTripNumber	27.00	0.00
tblTripsAndVMT	WorkerTripNumber	69.00	36.00
tblTripsAndVMT	WorkerTripNumber	69.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	10.8710	112.4648	59.4696	0.1064	0.4024	4.9026	5.3050	0.1067	4.5871	4.6938	0.0000	11,196.01	11,196.01	2.3680	0.0000	11,245.740
												22	22			2
Total	10.8710	112.4648	59.4696	0.1064	0.4024	4.9026	5.3050	0.1067	4.5871	4.6938	0.0000	11,196.01	11,196.01	2.3680	0.0000	11,245.740
												22	22			2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	3.3657	29.6489	57.9955	0.1063	0.4024	0.4273	0.8297	0.1067	0.4270	0.5337	0.0000	11,186.12	11,186.12	2.3659	0.0000	11,235.805
												22	22			0
Total	3.3657	29.6489	57.9955	0.1063	0.4024	0.4273	0.8297	0.1067	0.4270	0.5337	0.0000	11,186.12	11,186.12	2.3659	0.0000	11,235.805
												22	22			0

	ROG	NOx	CO	SO2	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	69.0399	73.6372	2.4787	0.0846	0.0000	91.2844	84.3602	0.0000	90.6912	88.6294	0.0000	0.0883	0.0883	0.0908	0.0000	0.0883

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Fuel Line/UG Utilities Pt. 1 - Jan - Feb 2015	Building Construction	1/1/2015	2/28/2015	5	42	
2	Fuel Line/UG Utilities Pt. 2 - Jan - Feb 2015	Building Construction	1/1/2015	2/28/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Cranes	3	8.00	350	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Forklifts	1	8.00	232	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Generator Sets	1	8.00	85	0.48

Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Cranes	1	8.00	247	0.38
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Forklifts	2	8.00	235	0.36
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Generator Sets	2	8.00	400	0.38
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	Welders	2	8.00	30	0.45
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Tractors/Loaders/Backhoes	1	8.00	83	0.37
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	Welders	0	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
Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	I-HHDT
Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015	6	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	I-HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Fuel Line/UG Utilities Pt. 1 - Jan-Feb 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	4.4399	52.8611	19.3790	0.0521	2.1986	2.1986	2.1986	2.0630	2.0630	2.0630	5,705.742	4	5,705.742	0.9171		5,725.0006
Total	4.4399	52.8611	19.3790	0.0521	2.1986	2.1986	2.1986	2.0630	2.0630	2.0630	5,705.742	4	5,705.742	0.9171		5,725.0006

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.9250	0.2289	2.3890	4.7800e-003	0.4024	3.5400e-003	0.4059	0.1067	3.2500e-003	0.1100	416.0379	416.0379	416.0379	0.0239		416.5394
Total	0.9250	0.2289	2.3890	4.7800e-003	0.4024	3.5400e-003	0.4059	0.1067	3.2500e-003	0.1100	416.0379	416.0379	416.0379	0.0239		416.5394

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.8589	14.1885	27.9815	0.0521		0.1102	0.1102		0.1102	0.1102	0.0000	5,700.5077	5,700.5077	0.9162		15,719.7483
Total	0.8589	14.1885	27.9815	0.0521		0.1102	0.1102		0.1102	0.1102	0.0000	5,700.5077	5,700.5077	0.9162		15,719.7483

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.9250	0.2289	2.3890	4.7800e-003	0.4024	3.5400e-003	0.4059	0.1067	3.2500e-003	0.1100	416.0379	416.0379	416.0379	0.0239		416.5394
Total	0.9250	0.2289	2.3890	4.7800e-003	0.4024	3.5400e-003	0.4059	0.1067	3.2500e-003	0.1100	416.0379	416.0379	416.0379	0.0239		416.5394

3.3 Fuel Line/UG Utilities Pt. 2 - Jan-Feb 2015 - 2015**Unmitigated Construction On-Site****Acres of Grading: 0**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	5.5060	59.3748	37.7016	0.0495		2.7005	2.7005		2.5208	2.5208		5,074.2319	5,074.2319	1.4271		5,104.2002
Total	5.5060	59.3748	37.7016	0.0495		2.7005	2.7005		2.5208	2.5208		5,074.2319	5,074.2319	1.4271		5,104.2002

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.5818	15.2316	27.6250	0.0495		0.3135	0.3135		0.3135	0.3135	0.0000	5,069.5766	5,069.5766	1.4258		5,099.5174
Total	1.5818	15.2316	27.6250	0.0495		0.3135	0.3135		0.3135	0.3135	0.0000	5,069.5766	5,069.5766	1.4258		5,099.5174

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Installation Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	110.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	125.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104

tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	16.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	1.9492	17.1622	9.1822	0.0123	0.1788	0.9244	1.1032	0.0474	0.8504	0.8979	0.0000	1,251.490	1,251.490	0.3254	0.0000	1,258.3233
Total	1.9492	17.1622	9.1822	0.0123	0.1788	0.9244	1.1032	0.0474	0.8504	0.8979	0.0000	1,251.490	1,251.490	0.3254	0.0000	1,258.3233

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.5711	4.4967	8.7279	0.0123	0.1788	0.0180	0.1968	0.0474	0.0178	0.0653	0.0000	1,250.522	1,250.522	0.3251	0.0000	1,257.3499
Total	0.5711	4.4967	8.7279	0.0123	0.1788	0.0180	0.1968	0.0474	0.0178	0.0653	0.0000	1,250.522	1,250.522	0.3251	0.0000	1,257.3499

	ROG	NOx	CO	SO2	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	70.7035	73.7986	4.9482	0.0814	0.0000	98.0571	82.1615	0.0000	97.9034	92.7316	0.0000	0.0773	0.0773	0.0891	0.0000	0.0774

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/1/2015	7/31/2015	5	110	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	3	8.00	125	0.31
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	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
Building Construction	3	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Installation Crew - Mar-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.6035	17.0696	8.0335	0.0100		0.9228	0.9228		0.8490	0.8490		1,054.386	1,054.386	0.3148		1,060.9967
Total	1.6035	17.0696	8.0335	0.0100		0.9228	0.9228		0.8490	0.8490		1,054.386	1,054.386	0.3148		1,060.9967

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1038	197.1038	0.0106		197.3267
Total	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1038	197.1038	0.0106		197.3267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.2253	4.4041	7.5792	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,053.419	1,053.419	0.3145		1,060.02333
												0	0			
Total	0.2253	4.4041	7.5792	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,053.419	1,053.419	0.3145		1,060.02333
												0	0			

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1038	197.1038	0.0106		197.3267
Total	0.3457	0.0926	1.1487	2.2700e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		197.1038	197.1038	0.0106		197.3267

LAX West Aircraft Maintenance Area Project - Installation Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	110.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	125.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104

tblProjectCharacteristics	Operational Year	2014	2018
tblTripsAndVMT	Vendor Trip Number	20.00	0.00
tblTripsAndVMT	Worker Trip Number	53.00	16.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	2.0146	17.1713	9.0953	0.0122	0.1788	0.9244	1.1032	0.0474	0.8504	0.8979	0.0000	1,239.292	1,239.292	0.3254	0.0000	1,246.1253
Total	2.0146	17.1713	9.0953	0.0122	0.1788	0.9244	1.1032	0.0474	0.8504	0.8979	0.0000	1,239.292	1,239.292	0.3254	0.0000	1,246.1253

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.6365	4.5058	8.6409	0.0121	0.1788	0.0180	0.1968	0.0474	0.0178	0.0653	0.0000	1,238.324	1,238.324	0.3251	0.0000	1,245.1519
Total	0.6365	4.5058	8.6409	0.0121	0.1788	0.0180	0.1968	0.0474	0.0178	0.0653	0.0000	1,238.324	1,238.324	0.3251	0.0000	1,245.1519

	ROG	NOx	CO	SO2	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	68.4086	73.7596	4.9955	0.0823	0.0000	98.0571	82.1615	0.0000	97.9034	92.7316	0.0000	0.0781	0.0781	0.0891	0.0000	0.0781

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/1/2015	7/31/2015	5	110	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	3	8.00	125	0.31
Building Construction	Forklifts	0	8.00	89	0.20

Building Construction	Generator Sets	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	7.00	97	0.37
Building Construction	Welders	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
Building Construction	3	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Installation Crew - Mar-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.6035	17.0696	8.0335	0.0100	0.9228	0.9228	0.9228	0.8490	0.8490	0.8490	1,054.386	1,054.386	1,054.386	0.3148	1,060.9967	
Total	1.6035	17.0696	8.0335	0.0100	0.9228	0.9228	0.9228	0.8490	0.8490	0.8490	1,054.386	1,054.386	1,054.386	0.3148	1,060.9967	

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
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	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106	185.1286	
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489	184.9058	184.9058	184.9058	0.0106	185.1286	

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.2253	4.4041	7.5792	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,053.4190	1,053.4190	0.3145		1,060.0233
Total	0.2253	4.4041	7.5792	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,053.4190	1,053.4190	0.3145		1,060.0233

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286
Total	0.4111	0.1017	1.0618	2.1300e-003	0.1788	1.5700e-003	0.1804	0.0474	1.4400e-003	0.0489		184.9058	184.9058	0.0106		185.1286

LAX West Aircraft Maintenance Area Project - Interior Concrete Flooring 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Concrete Pump; "Forklift" = Concrete Mixer.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Concrete Pump; "Forklift" = Concrete Mixer.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	42.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	350.00
tblOffRoadEquipment	LoadFactor	0.29	0.74
tblOffRoadEquipment	LoadFactor	0.20	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Interior Concrete Flooring - Feb-Mar 2015	Cranes	1	8.00	350	0.74
Interior Concrete Flooring - Feb-Mar 2015	Forklifts	1	8.00	350	0.56
Interior Concrete Flooring - Feb-Mar 2015	Generator Sets	0	8.00	84	0.74
Interior Concrete Flooring - Feb-Mar 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Concrete Flooring - Feb-Mar 2015	Welders	0	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
Interior Concrete Flooring - Feb-Mar	2	40.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 Interior Concrete Flooring - Feb-Mar 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	3.7381	46.4073	30.1786	0.0391		1.9759	1.9759		1.8178	1.8178		4,108.787	4,108.787	1.2266		4,134.5471
Total	3.7381	46.4073	30.1786	0.0391		1.9759	1.9759		1.8178	1.8178		4,108.787	4,108.787	1.2266		4,134.5471

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.8643	0.2316	2.8718	5.6700e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222	492.7595	492.7595	492.7595	0.0265		493.3166
Total	0.8643	0.2316	2.8718	5.6700e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222	492.7595	492.7595	492.7595	0.0265		493.3166

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.6414	10.3425	20.8454	0.0391		0.0641	0.0641		0.0641	0.0641	0.0000	4,105.0180	4,105.0180	1.2255		4,130.7539
Total	0.6414	10.3425	20.8454	0.0391		0.0641	0.0641		0.0641	0.0641	0.0000	4,105.0180	4,105.0180	1.2255		4,130.7539

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.8643	0.2316	2.8718	5.6700e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222	492.7595	492.7595	492.7595	0.0265		493.3166
Total	0.8643	0.2316	2.8718	5.6700e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222	492.7595	492.7595	492.7595	0.0265		493.3166

LAX West Aircraft Maintenance Area Project - Interior Concrete Flooring 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Concrete Pump; "Forklift" = Concrete Mixer.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Concrete Pump; "Forklift" = Concrete Mixer.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	42.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	350.00

tblOffRoadEquipment	LoadFactor	0.29	0.74
tblOffRoadEquipment	LoadFactor	0.20	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	40.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	4.7659	46.6616	32.8330	0.0444	0.4471	1.9798	2.4269	0.1186	1.8214	1.9400	0.0000	4,571.052	4,571.052	1.2532	0.0000	4,597.3687
												0	0	0		
Total	4.7659	46.6616	32.8330	0.0444	0.4471	1.9798	2.4269	0.1186	1.8214	1.9400	0.0000	4,571.052	4,571.052	1.2532	0.0000	4,597.3687
											0	0	0			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	1.6692	10.5968	23.4998	0.0444	0.4471	0.0681	0.5152	0.1186	0.0678	0.1863	0.0000	4,567.282	4,567.282	1.2521	0.0000	4,593.5754
												4	4	4		
Total	1.6692	10.5968	23.4998	0.0444	0.4471	0.0681	0.5152	0.1186	0.0678	0.1863	0.0000	4,567.282	4,567.282	1.2521	0.0000	4,593.5754
												4	4	4		

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day									
Off-Road	3.7381	46.4073	30.1786	0.0391	1.9759	1.8178	1.8178	4,108.7876	1.2266	4,134.5471
Total	3.7381	46.4073	30.1786	0.0391	1.9759	1.8178	1.8178	4,108.7876	1.2266	4,134.5471

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0278	0.2543	2.6544	5.3100e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222		462.2644	462.2644	0.0265		462.8215
Total	1.0278	0.2543	2.6544	5.3100e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222		462.2644	462.2644	0.0265		462.8215

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
Off-Road	0.6414	10.3425	20.8454	0.0391		0.0641	0.0641		0.0641	0.0641	0.0000	4,105.0180	4,105.0180	1.2255		4,130.7539
Total	0.6414	10.3425	20.8454	0.0391		0.0641	0.0641		0.0641	0.0641	0.0000	4,105.0180	4,105.0180	1.2255		4,130.7539

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.0278	0.2543	2.6544	5.3100e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222		462.2644	462.2644	0.0265		462.8215
Total	1.0278	0.2543	2.6544	5.3100e-003	0.4471	3.9300e-003	0.4510	0.1186	3.6100e-003	0.1222		462.2644	462.2644	0.0265		462.8215

LAX West Aircraft Maintenance Area Project - Interior Finishes Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	110.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104

tblProjectCharacteristics	Operational Year	2014	2018
tblTripsAndVMT	Vendor Trip Number	20.00	0.00
tblTripsAndVMT	Worker Trip Number	53.00	30.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.3596	5.1559	7.9973	8.6000e-003	0.3353	0.4954	0.8308	0.0889	0.4558	0.5447	0.0000	829.8401	829.8401	0.1573	0.0000	833.1435
Total	2.3596	5.1559	7.9973	8.6000e-003	0.3353	0.4954	0.8308	0.0889	0.4558	0.5447	0.0000	829.8401	829.8401	0.1573	0.0000	833.1435

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.3580	5.1513	7.9919	8.6000e-003	0.3353	0.4950	0.8303	0.0889	0.4554	0.5443	0.0000	829.4178	829.4178	0.1572	0.0000	832.7186
Total	2.3580	5.1513	7.9919	8.6000e-003	0.3353	0.4950	0.8303	0.0889	0.4554	0.5443	0.0000	829.4178	829.4178	0.1572	0.0000	832.7186

	ROG	NOx	CO	SO2	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	0.0665	0.0886	0.0671	0.0000	0.0000	0.0908	0.0542	0.0000	0.0921	0.0771	0.0000	0.0509	0.0509	0.0826	0.0000	0.0510

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Interior Finishes Crew - Mar-Jul 2015	Building Construction	3/1/2015	7/31/2015	5	110	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Interior Finishes Crew - Mar-Jul 2015	Cranes	3	8.00	50	0.31
Interior Finishes Crew - Mar-Jul 2015	Forklifts	0	8.00	89	0.20
Interior Finishes Crew - Mar-Jul 2015	Generator Sets	0	8.00	84	0.74
Interior Finishes Crew - Mar-Jul 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Finishes Crew - Mar-Jul 2015	Welders	0	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
Interior Finishes Crew - Mar-Jul 2015	3	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Interior Finishes Crew - Mar-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.7113	4.9822	5.8435	4.3500e-003	0.4925	0.4925	0.4925	0.4531	0.4531	0.4531	460.2705	460.2705	460.2705	0.1374		463.1561
Total	1.7113	4.9822	5.8435	4.3500e-003	0.4925	0.4925	0.4925	0.4531	0.4531	0.4531	460.2705	460.2705	460.2705	0.1374		463.1561

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916	0.0000	369.5696	369.5696	0.0199		369.9875
Total	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		369.5696	369.5696	0.0199		369.9875

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7097	4.9776	5.8381	4.3500e-003		0.4920	0.4920		0.4527	0.4527	0.0000	459.8482	459.8482	0.1373		462.7311
Total	1.7097	4.9776	5.8381	4.3500e-003		0.4920	0.4920		0.4527	0.4527	0.0000	459.8482	459.8482	0.1373		462.7311

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916	0.0000	369.5696	369.5696	0.0199		369.9875
Total	0.6482	0.1737	2.1538	4.2500e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		369.5696	369.5696	0.0199		369.9875

LAX West Aircraft Maintenance Area Project - Interior Finishes Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Lift

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Platform (Lift).

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	110.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	50.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018

tbTripsAndVMT	VendorTripNumber	20.00	0.00
tbTripsAndVMT	WorkerTripNumber	53.00	30.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.4822	5.1729	7.8343	8.3400e-003	0.3353	0.4954	0.8308	0.0889	0.4558	0.5447	0.0000	806.9687	806.9687	0.1573	0.0000	810.2722
Total	2.4822	5.1729	7.8343	8.3400e-003	0.3353	0.4954	0.8308	0.0889	0.4558	0.5447	0.0000	806.9687	806.9687	0.1573	0.0000	810.2722

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	2.4806	5.1683	7.8290	8.3300e-003	0.3353	0.4950	0.8303	0.0889	0.4554	0.5443	0.0000	806.5465	806.5465	0.1572	0.0000	809.8473
Total	2.4806	5.1683	7.8290	8.3300e-003	0.3353	0.4950	0.8303	0.0889	0.4554	0.5443	0.0000	806.5465	806.5465	0.1572	0.0000	809.8473

	ROG	NOx	CO	SO2	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	0.0633	0.0883	0.0684	0.1199	0.0000	0.0908	0.0542	0.0000	0.0921	0.0771	0.0000	0.0523	0.0523	0.0826	0.0000	0.0524

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Interior Finishes Crew - Mar-Jul 2015	Building Construction	3/1/2015	7/31/2015	5	110	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Interior Finishes Crew - Mar-Jul 2015	Cranes	31	8.00	501	0.31
Interior Finishes Crew - Mar-Jul 2015	Forklifts	0	8.00	89	0.20
Interior Finishes Crew - Mar-Jul 2015	Generator Sets	0	8.00	84	0.74
Interior Finishes Crew - Mar-Jul 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Interior Finishes Crew - Mar-Jul 2015	Welders	0	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
Interior Finishes Crew - Mar-Jul 2015	3	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer
Water Exposed Area
Clean Paved Roads

3.2 Interior Finishes Crew - Mar-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.7113	4.9822	5.8435	4.3500e-003	0.4925	0.4531	0.4925	0.4531	0.4531	0.4531	460.2705	460.2705	460.2705	0.1374		463.1561
Total	1.7113	4.9822	5.8435	4.3500e-003	0.4925	0.4531	0.4925	0.4531	0.4531	0.4531	460.2705	460.2705	460.2705	0.1374		463.1561

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916	0.0000	346.6983	346.6983	0.0199		347.1161
Total	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		346.6983	346.6983	0.0199		347.1161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7097	4.9776	5.8381	4.3500e-003		0.4920	0.4920		0.4527	0.4527	0.0000	459.8482	459.8482	0.1373		462.7311
Total	1.7097	4.9776	5.8381	4.3500e-003		0.4920	0.4920		0.4527	0.4527	0.0000	459.8482	459.8482	0.1373		462.7311

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916	0.0000	346.6983	346.6983	0.0199		347.1161
Total	0.7709	0.1907	1.9908	3.9800e-003	0.3353	2.9500e-003	0.3383	0.0889	2.7000e-003	0.0916		346.6983	346.6983	0.0199		347.1161

LAX West Aircraft Maintenance Area Project - Lighting-Night Shift 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.
 Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.
 Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.
 Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.
 Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	66.00
tblConstructionPhase	PhaseEndDate	1/30/2015	1/31/2015
tblConstructionPhase	PhaseEndDate	5/4/2015	7/31/2015
tblConstructionPhase	PhaseStartDate	2/1/2015	5/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Lighting-Night Shift - Jan 2015	Building Construction	11/1/2015	1/31/2015	5	221	
2	Lighting-Night Shift - May-Jul 2015	Building Construction	5/1/2015	7/31/2015	5	661	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lighting-Night Shift - May-Jul 2015	Cranes	0	7.00	226	0.29
Lighting-Night Shift - May-Jul 2015	Forklifts	0	8.00	89	0.20
Lighting-Night Shift - May-Jul 2015	Generator Sets	12	8.00	15	0.74
Lighting-Night Shift - May-Jul 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Lighting-Night Shift - Jan 2015	Cranes	0	7.00	226	0.29
Lighting-Night Shift - Jan 2015	Forklifts	0	8.00	89	0.20
Lighting-Night Shift - Jan 2015	Generator Sets	12	8.00	15	0.74
Lighting-Night Shift - May-Jul 2015	Welders	0	8.00	46	0.45
Lighting-Night Shift - Jan 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Lighting-Night Shift - Jan 2015	Welders	0	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
Lighting-Night Shift - May-Jul 2015	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Lighting-Night Shift - Jan 2015	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Lighting-Night Shift - Jan 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.7549	12.0775	8.5935	0.0188	0.6578	0.6578	0.6578	0.6578	0.6578	0.6578	1,335.074	1,335.074	1,335.074	0.1574	1	1,338.3795
Total	1.7549	12.0775	8.5935	0.0188	0.6578	0.6578	0.6578	0.6578	0.6578	0.6578	1,335.074	1,335.074	1,335.074	0.1574	1	1,338.3795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.849 2	1,333.849 2	0.1573		1,337.1516
Total	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.849 2	1,333.849 2	0.1573		1,337.1516

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

3.3 Lighting-Night Shift - May-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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LAX West Aircraft Maintenance Area Project - Lighting-Night Shift 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	22.00
tblConstructionPhase	NumDays	1,110.00	66.00
tblConstructionPhase	PhaseEndDate	1/30/2015	1/31/2015
tblConstructionPhase	PhaseEndDate	5/4/2015	7/31/2015
tblConstructionPhase	PhaseStartDate	2/1/2015	5/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	HorsePower	84.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	12.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

3.0 Construction Detail Construction Phase

Phase	Phase Name	Phase Type	Start Date	End Date	Num Days	Num Days	Phase Description
1	Lighting-Night Shift - Jan 2015	Building Construction	1/1/2015	1/31/2015	5	22	
2	Lighting-Night Shift - May-Jul 2015	Building Construction	5/1/2015	7/31/2015	5	66	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lighting-Night Shift - May-Jul 2015	Cranes	0	7.00	226	0.29
Lighting-Night Shift - May-Jul 2015	Forklifts	0	8.00	89	0.20
Lighting-Night Shift - May-Jul 2015	Generator Sets	12	8.00	15	0.74
Lighting-Night Shift - May-Jul 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Lighting-Night Shift - Jan 2015	Cranes	0	7.00	226	0.29
Lighting-Night Shift - Jan 2015	Forklifts	0	8.00	89	0.20
Lighting-Night Shift - Jan 2015	Generator Sets	12	8.00	15	0.74
Lighting-Night Shift - May-Jul 2015	Welders	0	8.00	46	0.45
Lighting-Night Shift - Jan 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Lighting-Night Shift - Jan 2015	Welders	0	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
Lighting-Night Shift - May-Jul 2015	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Lighting-Night Shift - Jan 2015	12	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Lighting-Night Shift - Jan 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.7549	12.0775	8.5935	0.0188	0.6578	0.6578	0.6578	0.6578	0.6578	0.6578	1,335.074	1,335.074	1,335.074	0.1574	1	1,338.3795
Total	1.7549	12.0775	8.5935	0.0188	0.6578	0.6578	0.6578	0.6578	0.6578	0.6578	1,335.074	1,335.074	1,335.074	0.1574	1	1,338.3795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.8492	1,333.8492	0.1573		1,337.1516
Total	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.8492	1,333.8492	0.1573		1,337.1516

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

3.3 Lighting-Night Shift - May-Jul 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.7549	12.0775	8.5935	0.0188		0.6578	0.6578		0.6578	0.6578	0.0000	1,335.0741	1,335.0741	0.1574		1,338.3795
Total	1.7549	12.0775	8.5935	0.0188		0.6578	0.6578		0.6578	0.6578	0.0000	1,335.0741	1,335.0741	0.1574		1,338.3795

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.8492	1,333.8492	0.1573		1,337.1516
Total	1.7533	12.0664	8.5857	0.0188		0.6572	0.6572		0.6572	0.6572	0.0000	1,333.8492	1,333.8492	0.15732		1,337.1516

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Misc Labor Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Tractor/Loader/Backhoe" = CAT 428 Backhoe

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOffEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	152.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	Operational Year	2014	2018

tbTripsAndVMT	WorkerTripNumber	3.00	10.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.5244	2.9947	2.7935	4.0800e-003	0.1118	0.2309	0.3426	0.0296	0.2124	0.2420	0.0000	403.4113	403.4113	0.0903	0.0000	405.3074
Total	0.5244	2.9947	2.7935	4.0800e-003	0.1118	0.2309	0.3426	0.0296	0.2124	0.2420	0.0000	403.4113	403.4113	0.0903	0.0000	405.3074

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.2756	1.3566	2.7201	4.0800e-003	0.1118	0.0313	0.1431	0.0296	0.0312	0.0609	0.0000	403.1542	403.1542	0.0902	0.0000	405.0487
Total	0.2756	1.3566	2.7201	4.0800e-003	0.1118	0.0313	0.1431	0.0296	0.0312	0.0609	0.0000	403.1542	403.1542	0.0902	0.0000	405.0487

	ROG	NOx	CO	SO2	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	47.4468	54.6990	2.6247	0.0000	0.0000	86.4457	58.2453	0.0000	85.3046	74.8574	0.0000	0.0637	0.0637	0.0886	0.0000	0.0638

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Misc Labor Crew	Site Preparation	1/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Misc Labor Crew	Rubber Tired Dozers	0	8.00	255	0.40
Misc Labor Crew	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Misc Labor Crew	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	iHDT

3.1 Mitigation Measures Construction
 Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Misc Labor Crew - 2015

Unmitigated Construction On-Site
Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3084	2.9368	2.0755	2.6700e-003		0.2299	0.2299	0.2115	0.2115	0.2115		280.2214	280.2214	0.0837		281.9782
Total	0.3084	2.9368	2.0755	2.6700e-003	0.0000	0.2299	0.2299	0.0000	0.2115	0.2115		280.2214	280.2214	0.0837		281.9782

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		123.1899	123.1899	6.6300e-003		123.3292
Total	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		123.1899	123.1899	6.6300e-003		123.3292

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0595	1.2987	2.0022	2.6600e-003		0.0303	0.0303		0.0303	0.0303	0.0000	279.9643	279.9643	0.0636		281.7195
Total	0.0595	1.2987	2.0022	2.6600e-003	0.0000	0.0303	0.0303	0.0000	0.0303	0.0303	0.0000	279.9643	279.9643	0.0636		281.7195

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		123.1899	123.1899	6.6300e-003		123.3292
Total	0.2161	0.0579	0.7179	1.4200e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		123.1899	123.1899	6.6300e-003		123.3292

LAX West Aircraft Maintenance Area Project - Misc Labor Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011)

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix

Off-road Equipment - See Construction Assumptions

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix (Fuel truck added to vendor trips)

Grading - Refer to Construction Model Inputs worksheet provided in this appendix

Construction Off-road Equipment Mitigation - Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5)

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Tractor/Loader/Backhoe" = CAT 428 Backhoe

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	40.00	152.00
tblLandscapeEquipment	NumberSummerDays	250	365
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	97.00	83.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018

tblTripsAndVMT	WorkerTripNumber	3.00	10.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.5653	3.0004	2.7391	4.0000e-003	0.1118	0.2309	0.3426	0.0296	0.2124	0.2420	0.0000	395.7875	395.7875	0.0903	0.0000	397.6836
Total	0.5653	3.0004	2.7391	4.0000e-003	0.1118	0.2309	0.3426	0.0296	0.2124	0.2420	0.0000	395.7875	395.7875	0.0903	0.0000	397.6836

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.3165	1.3623	2.6658	3.9900e-003	0.1118	0.0313	0.1431	0.0296	0.0312	0.0609	0.0000	395.5304	395.5304	0.0902	0.0000	397.4249
Total	0.3165	1.3623	2.6658	3.9900e-003	0.1118	0.0313	0.1431	0.0296	0.0312	0.0609	0.0000	395.5304	395.5304	0.0902	0.0000	397.4249

	ROG	NOx	CO	SO2	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	44.0166	54.5956	2.6768	0.2500	0.0000	86.4457	58.2453	0.0000	85.3046	74.8574	0.0000	0.0650	0.0650	0.0886	0.0000	0.0651

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Misc Labor Crew	Site Preparation	1/1/2015	7/31/2015	5	152	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Misc Labor Crew	Rubber Tired Dozers	0	8.00	255	0.40
Misc Labor Crew	Tractors/Loaders/Backhoes	1	8.00	83	0.37

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
Misc Labor Crew	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HD_T_Mix	HHDT

3.1 Mitigation Measures Construction
 Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Misc Labor Crew - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3084	2.9368	2.0755	2.6700e-003		0.2299	0.2299		0.2115	0.2115		280.2214	280.2214	0.0837		281.9782
Total	0.3084	2.9368	2.0755	2.6700e-003	0.0000	0.2299	0.2299	0.0000	0.2115	0.2115		280.2214	280.2214	0.0837		281.9782

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		115.5661	115.5661	6.6300e-003		115.7054
Total	0.2570	0.0636	0.6636	1.3300e-003	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306		115.5661	115.5661	6.6300e-003		115.7054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Fugitive Dust	"	"	"	"	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	"	"	0.0000	"	"	0.0000
Off-Road	"	0.0595	1.2987	2.0022	2.6600e-003	0.0303	0.0303	0.0303	0.0303	0.0303	0.0000	279.9643	279.9643	0.0836	"	281.7195
Total	"	0.0595	1.2987	2.0022	2.6600e-003	0.0303	0.0303	0.0000	0.0303	0.0303	0.0000	279.9643	279.9643	0.0836	"	281.7195

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	"	0.2570	0.0636	0.6636	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	"	115.5661	115.5661	6.6300e-003	"	115.7054
Total	"	0.2570	0.0636	0.6636	0.1118	9.8000e-004	0.1128	0.0296	9.0000e-004	0.0306	"	115.5661	115.5661	6.6300e-003	"	115.7054

LAX West Aircraft Maintenance Area Project - PCCP Paving Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller. Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Gomaco GP-4000 Paver; "Forklifts" = Compressors (Gang Drills); "Generator Sets" = Gomaco TC-400 Cure/Texture Rig; "Tractors/Loaders/Backhoes" = Gomaco RTP-500 Belt Placers
Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Tri-axle Dump Truck

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation		Tier	No Change				Tier 4 Interim
tblConstEquipMitigation		Tier	No Change				Tier 4 Interim
tblConstructionPhase		NumDays	1,110.00				42.00
tblConstructionPhase		NumDays	1,110.00				42.00
tblConstructionPhase		PhaseEndDate	4/28/2015				2/27/2015
tblConstructionPhase		PhaseStartDate	2/28/2015				1/1/2015
tblLandUse		LandUseSquareFeet	2,395,800.00				0.00
tblOffRoadEquipment		HorsePower	226.00				450.00
tblOffRoadEquipment		HorsePower	226.00				350.00
tblOffRoadEquipment		HorsePower	89.00				85.00
tblOffRoadEquipment		HorsePower	84.00				70.00
tblOffRoadEquipment		HorsePower	97.00				200.00
tblOffRoadEquipment		LoadFactor	0.29				0.42
tblOffRoadEquipment		LoadFactor	0.29				0.38
tblOffRoadEquipment		LoadFactor	0.20				0.48
tblOffRoadEquipment		LoadFactor	0.74				0.50
tblOffRoadEquipment		LoadFactor	0.37				0.42
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00				13.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00				2.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00				0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00				0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00				2.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	3.00				0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00				0.00
tblOffRoadEquipment		OffRoadEquipmentUnitAmount	1.00				0.00
tblOffRoadEquipment		UsageHours	7.00				8.00
tblOffRoadEquipment		UsageHours	7.00				8.00
tblOffRoadEquipment		UsageHours	7.00				8.00
tblProjectCharacteristics		CO2IntensityFactor	1227.89				1104
tblProjectCharacteristics		OperationalYear	2014				2018
tblTripsAndVMT		WorkerTripNumber	53.00				26.00
tblTripsAndVMT		WorkerTripNumber	53.00				48.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	20.8278	238.1183	160.7388	0.2090	1.0771	10.1192	11.1963	0.2905	9.3268	9.6173	0.0000	21,682.07	21,682.07	5.9246	0.0000	21,806.494
												68	68			1
Total	20.8278	238.1183	160.7388	0.2090	1.0771	10.1192	11.1963	0.2905	9.3268	9.6173	0.0000	21,682.07	21,682.07	5.9246	0.0000	21,806.494
												68	68			1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	5.4582	56.8970	112.8117	0.2088	1.0771	0.5193	1.5964	0.2905	0.4787	0.7692	0.0000	21,663.83	21,663.83	5.9193	0.0000	21,788.1343
Total	5.4582	56.8970	112.8117	0.2088	1.0771	0.5193	1.5964	0.2905	0.4787	0.7692	0.0000	21,663.83	21,663.83	5.9193	0.0000	21,788.1343

	ROG	NOx	CO	SO2	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	73.7936	76.1056	29.8168	0.0814	0.0000	94.8679	85.7418	0.0000	94.8677	92.0018	0.0000	0.0842	0.0842	0.0910	0.0000	0.0842

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Building Construction	1/1/2015	2/27/2015	5	42	
2	PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Building Construction	1/1/2015	2/27/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Cranes	1	8.00	450	0.42
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Cranes	13	8.00	350	0.38
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Forklifts	2	8.00	85	0.48
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Forklifts	0	8.00	89	0.20
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Generator Sets	1	8.00	70	0.50
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Generator Sets	0	8.00	84	0.74
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Tractors/Loaders/Backhoes	2	8.00	200	0.42
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Welders	0	8.00	46	0.45
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Welders	0	8.00	46	0.45

Trips and VMT

[illegible]

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Clean Paved Roads

3.2 PCCP Paving Crew Pt. 1 - Jan-Feb 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
Off-Road	4.0667	47.0299	25.7771	0.0413		2.3172	2.3172		2.1490	2.1490		4,300.022	4,300.022	1.2148		4,325.5334
												4	4			
Total	4.0667	47.0299	25.7771	0.0413		2.3172	2.3172		2.1490	2.1490		4,300.022	4,300.022	1.2148		4,325.5334
												4	4			

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3432	1.9557	2.1644	4.3600e-003	0.1250	0.0342	0.1592	0.0356	0.0315	0.0670		440.9144	440.9144	3.4500e-003		440.9868
Worker	0.5618	0.1505	1.8666	3.6800e-003	0.2906	2.5600e-003	0.2932	0.0771	2.3400e-003	0.0794		320.2937	320.2937	0.0173		320.6558
Total	0.9051	2.1062	4.0310	8.0400e-003	0.4156	0.0368	0.4523	0.1127	0.0338	0.1465		761.2081	761.2081	0.0207		761.6426

Mitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3432	1.9557	2.1644	4.3600e-003	0.1250	0.0342	0.1592	0.0356	0.0315	0.0670	440.9144	440.9144	440.9144	3.4500e-003		440.9868
Worker	1.0372	0.2779	3.4461	6.8000e-003	0.5365	4.7200e-003	0.5413	0.1423	4.3300e-003	0.1466	591.3114	591.3114	591.3114	0.0318		591.9800
Total	1.3804	2.2336	5.6105	0.0112	0.6615	0.0389	0.7004	0.1779	0.0358	0.2137	1,032.2258	1,032.2258	1,032.2258	0.0353		1,032.9668

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.4373	39.3016	79.2125	0.1483		0.2437	0.2437		0.2437	0.2437	0.0000	15,574.3187	15,574.3187	4.6496		15,671.9600
Total	2.4373	39.3016	79.2125	0.1483		0.2437	0.2437		0.2437	0.2437	0.0000	15,574.3187	15,574.3187	4.6496		15,671.9600

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3432	1.9557	2.1644	4.3600e-003	0.1250	0.0342	0.1592	0.0356	0.0315	0.0670	440.9144	440.9144	440.9144	3.4500e-003		440.9868
Worker	1.0372	0.2779	3.4461	6.8000e-003	0.5365	4.7200e-003	0.5413	0.1423	4.3300e-003	0.1466	591.3114	591.3114	591.3114	0.0318		591.9800
Total	1.3804	2.2336	5.6105	0.0112	0.6615	0.0389	0.7004	0.1779	0.0358	0.2137	1,032.2258	1,032.2258	1,032.2258	0.0353		1,032.9668

LAX West Aircraft Maintenance Area Project - PCCP Paving Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. Paver; "Paving Equipment" = Rubber Tire Loader; Roller. Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating -

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. Tier 4 Engines; Apply Water/Soil Stabilizer to Exposed Areas and Unpaved Roads 3 times daily (61% reduction in PM10 and PM2.5).

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Gomaco GP-4000 Paver; "Forklifts" =

Compressors (Gang Drills); "Generator Sets" = Gomaco TC-400 Cure/Texture Rig; "Tractors/Loaders/Backhoes" = Gomaco RTP-500 Belt Placers

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Tri-axle Dump Truck

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	42.00
tblConstructionPhase	NumDays	1,110.00	42.00
tblConstructionPhase	PhaseEndDate	4/28/2015	2/27/2015
tblConstructionPhase	PhaseStartDate	2/28/2015	1/1/2015
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	450.00
tblOffRoadEquipment	HorsePower	226.00	350.00
tblOffRoadEquipment	HorsePower	89.00	85.00
tblOffRoadEquipment	HorsePower	84.00	70.00
tblOffRoadEquipment	HorsePower	97.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.42
tblOffRoadEquipment	LoadFactor	0.29	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.48
tblOffRoadEquipment	LoadFactor	0.74	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	13.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	WorkerTripNumber	53.00	26.00
tblTripsAndVMT	WorkerTripNumber	53.00	48.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

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
2015	21.1957	238.2619	161.1432	0.2082	1.0771	10.1201	11.1971	0.2905	9.3275	9.6181	0.0000	21,618.29	21,618.29	5.9248	0.0000	21,742.7209
Total	21.1957	238.2619	161.1432	0.2082	1.0771	10.1201	11.1971	0.2905	9.3275	9.6181	0.0000	21,618.29	21,618.29	5.9248	0.0000	21,742.7209

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	5.8262	57.0407	113.2161	0.2081	1.0771	0.5202	1.5972	0.2905	0.4795	0.7700	0.0000	21,600.05	21,600.05	5.9195	0.0000	21,724.361
Total	5.8262	57.0407	113.2161	0.2081	1.0771	0.5202	1.5972	0.2905	0.4795	0.7700	0.0000	21,600.05	21,600.05	5.9195	0.0000	21,724.361

	ROG	NOx	CO	SO2	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	72.5125	76.0597	29.7420	0.0816	0.0000	94.8601	85.7354	0.0000	94.8598	91.9945	0.0000	0.0844	0.0844	0.0908	0.0000	0.0844

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Building Construction	1/1/2015	2/27/2015	5	42	
2	PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Building Construction	1/1/2015	2/27/2015	5	42	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Cranes	1	8.00	450	0.42
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Cranes	13	8.00	350	0.38
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Forklifts	2	8.00	85	0.48
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Forklifts	0	8.00	89	0.20
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Generator Sets	1	8.00	70	0.50
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Generator Sets	0	8.00	84	0.74
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Tractors/Loaders/Backhoes	2	8.00	200	0.42
PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
PCCP Paving Crew Pt. 1 - Jan-Feb 2015	Welders	0	8.00	46	0.45

PCCP Paving Crew Pt. 2 - Jan-Feb 2015	Welders	0	8.00	46	0.45
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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
PCCP Paving Crew Pt. 1	9	26.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT
1 - Jan-Feb 2015										
PCCP Paving Crew Pt. 1	9	48.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	IHDT
2 - Jan-Feb 2015										

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 PCCP Paving Crew Pt. 1 - Jan-Feb 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	4.0567	47.0299	25.7771	0.0413		2.3172	2.3172		2.1490	2.1490		4,300.022	4,300.022	1.2148		4,325.5334
Total	4.0567	47.0299	25.7771	0.0413		2.3172	2.3172		2.1490	2.1490		4,300.022	4,300.022	1.2148		4,325.5334

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3760	2.0065	2.5676	4.3200e-003	0.1250	0.0346	0.1596	0.0356	0.0318	0.0674		437.2338	437.2338	3.5400e-003		437.3082
Worker	0.6681	0.1653	1.7254	3.4500e-003	0.2906	2.5600e-003	0.2932	0.0771	2.3400e-003	0.0794		300.4718	300.4718	0.0173		300.8340
Total	1.0441	2.1718	4.2930	7.7700e-003	0.4156	0.0372	0.4528	0.1127	0.0342	0.1468		737.7056	737.7056	0.0208		738.1422

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.7354	13.2556	23.9576	0.0413		0.1999	0.1999		0.1654	0.1654	0.0000	4,296.0774	4,296.0774	1.2137		4,321.5649
Total	0.7354	13.2556	23.9576	0.0413		0.1999	0.1999		0.1654	0.1654	0.0000	4,296.0774	4,296.0774	1.2137		4,321.5649

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3760	2.0065	2.5676	4.3200e-003	0.1250	0.0346	0.1596	0.0356	0.0318	0.0674		437.2338	437.2338	3.5400e-003		437.3082
Worker	0.6681	0.1653	1.7254	3.4500e-003	0.2906	2.5600e-003	0.2932	0.0771	2.3400e-003	0.0794		300.4718	300.4718	0.0173		300.8340
Total	1.0441	2.1718	4.2930	7.7700e-003	0.4156	0.0372	0.4528	0.1127	0.0342	0.1468		737.7056	737.7056	0.0208		738.1422

3.3 PCCP Paving Crew Pt. 2 - Jan-Feb 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	14.4856	186.7485	125.3202	0.1485		7.7264	7.7264		7.1082	7.1082		15,588.6204	15,588.6204	4.6539		15,686.3514
Total	14.4856	186.7485	125.3202	0.1485		7.7264	7.7264		7.1082	7.1082		15,588.6204	15,588.6204	4.6539		15,686.3514

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.3760	2.0065	2.5676	4.3200e-003	0.1250	0.0346	0.1596	0.0356	0.0318	0.0674	437.2338	437.2338	437.2338	3.5400e-003		437.3082
Worker	1.2334	0.3051	3.1853	6.3800e-003	0.5365	4.7200e-003	0.5413	0.1423	4.3300e-003	0.1466	554.7172	554.7172	554.7172	0.0318		555.3858
Total	1.6094	2.3117	5.7529	0.0107	0.6615	0.0393	0.7008	0.1779	0.0362	0.2140	991.9510	991.9510	991.9510	0.0354		992.6940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.4373	39.3016	79.2125	0.1483		0.2437	0.2437		0.2437	0.2437	0.0000	15,574.3187	15,574.3187	4.6496		115,671.9600
Total	2.4373	39.3016	79.2125	0.1483		0.2437	0.2437		0.2437	0.2437	0.0000	15,574.3187	15,574.3187	4.6496		115,671.9600

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3760	2.0065	2.5676	4.3200e-003	0.1250	0.0346	0.1596	0.0356	0.0318	0.0674	437.2338	437.2338	437.2338	3.5400e-003		437.3082
Worker	1.2334	0.3051	3.1853	6.3800e-003	0.5365	4.7200e-003	0.5413	0.1423	4.3300e-003	0.1466	554.7172	554.7172	554.7172	0.0318		555.3858
Total	1.6094	2.3117	5.7529	0.0107	0.6615	0.0393	0.7008	0.1779	0.0362	0.2140	991.9510	991.9510	991.9510	0.0354		992.6940

LAX West Aircraft Maintenance Area Project – Saw Crew 2015

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = Vacuum Sweeper".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	86.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	230.00
tblOffRoadEquipment	HorsePower	89.00	99.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	1.5976	14.9323	7.1747	0.0112	0.0894	0.8837	0.9731	0.0237	0.8130	0.8367	0.0000	1,153.251	1,153.251	0.3202	0.0000	1,159.9747
Total	1.5976	14.9323	7.1747	0.0112	0.0894	0.8837	0.9731	0.0237	0.8130	0.8367	0.0000	1,153.251	1,153.251	0.3202	0.0000	1,159.9747

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	0.3616	3.5929	6.8100	0.0112	0.0894	0.0558	0.1452	0.0237	0.0557	0.0794	0.0000	1,152.283	1,152.283	0.3199	0.0000	1,159.0010
Total	0.3616	3.5929	6.8100	0.0112	0.0894	0.0558	0.1452	0.0237	0.0557	0.0794	0.0000	1,152.283	1,152.283	0.3199	0.0000	1,159.0010

	ROG	NOx	CO	SO2	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	77.3637	75.9387	5.0834	0.0895	0.0000	93.6879	85.0789	0.0000	93.1476	90.5081	0.0000	0.0839	0.0839	0.0906	0.0000	0.0839

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
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1	Saw Crew 2015	Building Construction	1/1/2015	4/30/2015	5	86
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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Saw Crew 2015	Generator Sets	0	8.00	84	0.74
Saw Crew 2015	Cranes	1	8.00	230	0.31
Saw Crew 2015	Forklifts	1	8.00	99	0.46
Saw Crew 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew 2015	Welders	0	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
Saw Crew 2015	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Saw Crew 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.4248	14.8860	6.6003	0.0100		0.8829	0.8829		0.8123	0.8123		1,054.699	1,054.699	0.3149		1,061.3114
Total	1.4248	14.8860	6.6003	0.0100		0.8829	0.8829		0.8123	0.8123		1,054.699	1,054.699	0.3149		1,061.3114

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633
Total	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1888	3.5466	6.2356	0.0100		0.0550	0.0550		0.0550	0.0550	0.0000	1,053.7314	1,053.7314	0.3146		1,060.3377
Total	0.1888	3.5466	6.2356	0.0100		0.0550	0.0550		0.0550	0.0550	0.0000	1,053.7314	1,053.7314	0.3146		1,060.3377

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633
Total	0.1729	0.0463	0.5744	1.1300e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244	98.5519	98.5519	98.5519	5.3100e-003		98.6633

LAX West Aircraft Maintenance Area Project – Saw Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = Water Truck. "Forklifts" = Vacuum Sweeper".

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Cranes" = "Water Truck". "Forklifts" = "Vacuum Sweeper".

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	1,110.00	86.00
tblLandUse	LandUseSquareFeet	2,395,800.00	0.00
tblOffRoadEquipment	HorsePower	226.00	230.00
tblOffRoadEquipment	HorsePower	89.00	99.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.46
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1104
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	VendorTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	53.00	8.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	1.6303	14.9369	7.1312	0.0111	0.0894	0.8837	0.9731	0.0237	0.8130	0.8367	0.0000	1,147.1519	1,147.1519	0.3202	0.0000	11,153.8757
Total	1.6303	14.9369	7.1312	0.0111	0.0894	0.8837	0.9731	0.0237	0.8130	0.8367	0.0000	1,147.1519	1,147.1519	0.3202	0.0000	1,153.8757

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	0.3943	3.5975	6.7665	0.0111	0.0894	0.0558	0.1452	0.0237	0.0557	0.0794	0.0000	1,146.1843	1,146.1843	0.3199	0.0000	11,152.9020
Total	0.3943	3.5975	6.7665	0.0111	0.0894	0.0558	0.1452	0.0237	0.0557	0.0794	0.0000	1,146.1843	1,146.1843	0.3199	0.0000	1,152.9020

	ROG	NOx	CO	SO2	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	75.8120	75.9156	5.1144	0.0901	0.0000	93.6879	85.0789	0.0000	93.1476	90.5081	0.0000	0.0844	0.0844	0.0906	0.0000	0.0844

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Saw Crew 2015	Building Construction	1/1/2015	4/30/2015	5	86	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Saw Crew 2015	Generator Sets	0	8.00	84	0.74
Saw Crew 2015	Cranes	1	8.00	230	0.31
Saw Crew 2015	Forklifts	1	8.00	99	0.46
Saw Crew 2015	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Saw Crew 2015	Welders	0	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
Saw Crew 2015	2	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment
 Use Soil Stabilizer
 Water Exposed Area
 Clean Paved Roads

3.2 Saw Crew 2015 - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

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	1.4248	14.8860	6.6003	0.0100		0.8829	0.8829	0.8123	0.8123	0.8123		1,054.699	1,054.699	0.3149		1,061.3114
Total	1.4248	14.8860	6.6003	0.0100		0.8829	0.8829	0.8123	0.8123	0.8123		1,054.699	1,054.699	0.3149		1,061.3114

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244		92.4529	92.4529	5.3100e-003		92.5643
Total	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244		92.4529	92.4529	5.3100e-003		92.5643

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1888	3.5466	6.2356	0.0100		0.0550	0.0550		0.0550	0.0550	0.0000	1,053.7314	1,053.7314	0.3146		1,060.3377
Total	0.1888	3.5466	6.2356	0.0100		0.0550	0.0550		0.0550	0.0550	0.0000	1,053.7314	1,053.7314	0.3146		1,060.3377

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244		92.4529	92.4529	5.3100e-003		92.5643
Total	0.2056	0.0509	0.5309	1.0600e-003	0.0894	7.9000e-004	0.0902	0.0237	7.2000e-004	0.0244		92.4529	92.4529	5.3100e-003		92.5643

LAX West Aircraft Maintenance Area Project - Striping Crew 2015
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating - Mnths 13-14: 50,780 sqft of outdoor painted area (6% of [68 * 2/7 = 19.43 acres]); Mnths 17-19: 61,680.48 sqft of outdoor painted area (6% of [68 * 3/7 = 29.14 acres]). (The 6% factor based on CalEEMod User's Guide, Appendix E, Section 7.)

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	50,780.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	76,170.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	42.00
tblConstructionPhase	NumDays	75.00	66.00
tblConstructionPhase	NumDays	1,110.00	42.00
tblConstructionPhase	NumDays	1,110.00	66.00
tblConstructionPhase	PhaseEndDate	4/28/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	11/2/2015	7/31/2015
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	6/1/2015	7/31/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	1/1/2015
tblConstructionPhase	PhaseStartDate	8/1/2015	5/1/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	5/1/2015
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31

tblOffRoadEquipment	LoadFactor	0.20			0.31
tblOffRoadEquipment	LoadFactor	0.20			0.31
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00			0.00
tblOffRoadEquipment	UsageHours	7.00			8.00
tblOffRoadEquipment	UsageHours	7.00			8.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89			1104
tblProjectCharacteristics	OperationalYear	2014			2018
tblTripsAndVMT	VendorTripNumber	20.00			0.00
tblTripsAndVMT	VendorTripNumber	20.00			0.00
tblTripsAndVMT	WorkerTripNumber	53.00			6.00
tblTripsAndVMT	WorkerTripNumber	11.00			0.00
tblTripsAndVMT	WorkerTripNumber	53.00			6.00
tblTripsAndVMT	WorkerTripNumber	11.00			0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	INBio- CO2	Total CO2	CH4	N2O	CO2e
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Year	lb/day														lb/day			
2015	15.5053	15.3233	6.7221	0.0109	0.0671	0.7569	0.8240	0.0178	0.6963	0.7141	0.0000	1,126.6704	1,126.6704	0.3183	1,133.3541			
Total	15.5053	15.3233	6.7221	0.0109	0.0671	0.7569	0.8240	0.0178	0.6963	0.7141	0.0000	1,126.6704	1,126.6704	0.3183	1,133.3541			

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day															
2015	14.3034	2.6772	5.7567	0.0109	0.0671	0.0170	0.0840	0.0178	0.0169	0.0347	0.0000	1,125.7046	1,125.7046	0.3180	0.0000	1,132.3822
Total	14.3034	2.6772	5.7567	0.0109	0.0671	0.0170	0.0840	0.0178	0.0169	0.0347	0.0000	1,125.7046	1,125.7046	0.3180	0.0000	1,132.3822

	ROG	NOx	CO	SO2	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	7.7518	82.5286	14.3625	0.0920	0.0000	97.7566	89.8004	0.0000	97.5687	95.1395	0.0000	0.0857	0.0857	0.0911	0.0000	0.0858

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Striping Crew - Jan-Feb 2015, bc	Building Construction	1/1/2015	2/28/2015	5	42	
2	Striping Crew - Jan-Feb 2015, ac	Architectural Coating	1/1/2015	2/28/2015	5	42	
3	Striping Crew - May-Jul 2015, bc	Building Construction	5/1/2015	7/31/2015	5	66	
4	Striping Crew - May-Jul 2015, ac	Architectural Coating	5/1/2015	7/31/2015	5	66	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Striping Crew - Jan-Feb 2015, bc	Cranes	1	8.00	175	0.31
Striping Crew - Jan-Feb 2015, bc	Forklifts	1	8.00	200	0.31
Striping Crew - Jan-Feb 2015, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - Jan-Feb 2015, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - Jan-Feb 2015, bc	Welders	0	8.00	46	0.45
Striping Crew - Jan-Feb 2015, ac	Air Compressors	0	6.00	78	0.48
Striping Crew - May-Jul 2015, bc	Cranes	1	8.00	175	0.31
Striping Crew - May-Jul 2015, bc	Forklifts	1	8.00	200	0.31
Striping Crew - May-Jul 2015, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - May-Jul 2015, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - May-Jul 2015, bc	Welders	0	8.00	46	0.45
Striping Crew - May-Jul 2015, ac	Air Compressors	0	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
Striping Crew - Jan-Feb 2015, bc	2	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - Jan-Feb 2015, ac	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - May-Jul 2015, bc	2	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - May-Jul 2015, ac	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Striping Crew - Jan-Feb 2015, bc - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.756	1,052.756	0.3143		1,059.3566
Total	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.756	1,052.756	0.3143		1,059.3566

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975
Total	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.1639	2.6425	5.3259	0.0100	0.0164	0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140	1,058.3847
Total	0.1639	2.6425	5.3259	0.0100	0.0164	0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140	1,058.3847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975
Total	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975

3.3 Striping Crew - Jan-Feb 2015, ac - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Archit. Coating	14.0098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	14.0098	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.0098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	14.0098	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Striping Crew - May-Jul 2015, bc - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566
Total	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975
Total	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1639	2.6425	5.3259	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140		1,058.3847
Total	0.1639	2.6425	5.3259	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140		1,058.3847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975
Total	0.1297	0.0347	0.4308	8.5000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		73.9139	73.9139	3.9800e-003		73.9975

3.5 Striping Crew - May-Jul 2015, ac - 2015

Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Archit. Coating	13.3730							0.0000		0.0000				0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000				0.0000		0.0000			0.0000	0.0000	0.0000
Total	13.3730	0.0000	0.0000	0.0000				0.0000		0.0000			0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
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
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
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Archit. Coating	13.3730						0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000			0.0000		0.0000	0.0000			0.0000	0.0000		0.0000

Total	13.3730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

LAX West Aircraft Maintenance Area Project - Striping Crew 2015

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	125.00	1000sqft	2.87	125,000.00	0
Other Asphalt Surfaces	68.00	Acre	68.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2018

Utility Company Los Angeles Department of Water & Power

CO2 Intensity (lb/MW/hr)	1104	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor: LADWP, 2011 Integrated Resource Plan, Appendix C, Table C-1, Historical LADWP Power Generation CO2 Emissions, Year 2010 (December 2011).

Land Use - Refer to Construction Model Inputs worksheet provided in this appendix.

Construction Phase - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix.

Off-road Equipment - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Trips and VMT - Refer to Construction Model Inputs worksheet provided in this appendix.

Architectural Coating - Mnths 13-14: 50,780 sqft of outdoor painted area (6% of [68 * 2/7 = 19.43 acres]); Mnths 17-19: 61,680.48 sqft of outdoor painted area (6% of [68 * 3/7 = 29.14 acres]). (The 6% factor based on CalEEMod User's Guide, Appendix E, Section 7.)

Construction Off-road Equipment Mitigation - Refer to Construction Model Inputs worksheet provided in this appendix. "Crane" = Paint Truck; "Forklift" = Flat Bed Truck.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	50,780.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,500.00	76,170.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	187,500.00	0.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	75.00	42.00
tblConstructionPhase	NumDays	75.00	66.00
tblConstructionPhase	NumDays	1,110.00	42.00
tblConstructionPhase	NumDays	1,110.00	66.00
tblConstructionPhase	PhaseEndDate	4/28/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	11/2/2015	7/31/2015
tblConstructionPhase	PhaseEndDate	2/27/2015	2/28/2015
tblConstructionPhase	PhaseEndDate	6/1/2015	7/31/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	1/1/2015
tblConstructionPhase	PhaseStartDate	8/1/2015	5/1/2015
tblConstructionPhase	PhaseStartDate	3/1/2015	5/1/2015
tblLandUse	LandUseSquareFeet	2,962,080.00	0.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	226.00	175.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	HorsePower	89.00	200.00
tblOffRoadEquipment	LoadFactor	0.29	0.31
tblOffRoadEquipment	LoadFactor	0.29	0.31

Year	lb/day														lb/day	
2015	15.5298	15.3267	6.6895	0.0108	0.0671	0.7569	0.8240	0.0178	0.6963	0.7141	0.0000	1,122.096	1,122.096	0.3183	0.0000	1,128.7798
Total	15.5298	15.3267	6.6895	0.0108	0.0671	0.7569	0.8240	0.0178	0.6963	0.7141	0.0000	1,122.096	1,122.096	0.3183	0.0000	1,128.7798

Mitigated Construction

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
2015	14.3279	2.6806	5.7241	0.0108	0.0671	0.0170	0.0840	0.0178	0.0169	0.0347	0.0000	1,121.130	1,121.130	0.3180	0.0000	1,127.8079
Total	14.3279	2.6806	5.7241	0.0108	0.0671	0.0170	0.0840	0.0178	0.0169	0.0347	0.0000	1,121.130	1,121.130	0.3180	0.0000	1,127.8079

Percent Reduction	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	7.7396	82.5103	14.4324	0.0925	0.0000	97.7566	89.8004	0.0000	97.5687	95.1395	0.0000	0.0861	0.0861	0.0911	0.0000	0.0861

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Striping Crew - Jan-Feb 2015, bc	Building Construction	1/1/2015	2/28/2015	5	42	
2	Striping Crew - Jan-Feb 2015, ac	Architectural Coating	1/1/2015	2/28/2015	5	42	
3	Striping Crew - May-Jul 2015, bc	Building Construction	5/1/2015	7/31/2015	5	66	
4	Striping Crew - May-Jul 2015, ac	Architectural Coating	5/1/2015	7/31/2015	5	66	

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Striping Crew - Jan-Feb 2015, bc	Cranes	1	8.00	175	0.31
Striping Crew - Jan-Feb 2015, bc	Forklifts	1	8.00	200	0.31
Striping Crew - Jan-Feb 2015, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - Jan-Feb 2015, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - Jan-Feb 2015, bc	Welders	0	8.00	46	0.45
Striping Crew - Jan-Feb 2015, ac	Air Compressors	0	6.00	78	0.48
Striping Crew - May-Jul 2015, bc	Cranes	1	8.00	175	0.31
Striping Crew - May-Jul 2015, bc	Forklifts	1	8.00	200	0.31
Striping Crew - May-Jul 2015, bc	Generator Sets	0	8.00	84	0.74
Striping Crew - May-Jul 2015, bc	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Striping Crew - May-Jul 2015, bc	Welders	0	8.00	46	0.45
Striping Crew - May-Jul 2015, ac	Air Compressors	0	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
Striping Crew - Jan-Feb 2015, bc	2	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - Jan-Feb 2015, ac	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - May-Jul 2015, bc	2	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping Crew - May-Jul 2015, ac	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

3.2 Striping Crew - Jan-Feb 2015, bc - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566
Total	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232
Total	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.1639	2.6425	5.3259	0.0100	0.0164	0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140	1,058.3847
Total	0.1639	2.6425	5.3259	0.0100	0.0164	0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140	1,058.3847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232
Total	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232

3.3 Striping Crew - Jan-Feb 2015, ac - 2015

Unmitigated Construction On-Site

Acres of Grading: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Archit. Coating	14.0098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	14.0098	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.0098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	14.0098	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Striping Crew - May-Jul 2015, bc - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566
Total	1.3658	15.2886	6.2914	0.0100		0.7563	0.7563		0.6958	0.6958		1,052.7565	1,052.7565	0.3143		1,059.3566

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232
Total	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.1639	2.6425	5.3259	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140		1,058.3847
Total	0.1639	2.6425	5.3259	0.0100		0.0164	0.0164		0.0164	0.0164	0.0000	1,051.7906	1,051.7906	0.3140		1,058.3847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232
Total	0.1542	0.0381	0.3982	8.0000e-004	0.0671	5.9000e-004	0.0677	0.0178	5.4000e-004	0.0183		69.3397	69.3397	3.9800e-003		69.4232

3.5 Striping Crew - May-Jul 2015, ac - 2015

Unmitigated Construction On-Site

Acres of Paving: 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Total	13.3730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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Mitigated Construction Off-Site

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
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
