

**Donald C. Tillman Water Reclamation Plant
 Personnel and Multi-Use Facility Project
 Criteria Pollutant Emissions Calculations**

Project Construction & Operation Peak Daily Criteria Pollutant Emissions						
	VOC	NOx	CO	SO2	PM10	PM2.5
Construction Emissions	51	19	15	0.03	25	1
SCAQMD Construction Thresholds (lbs/day)	75	100	550	150	150	55
Significant Impact?	NO	NO	NO	NO	NO	NO
Operational Emissions	3	5	21	0.03	4	0.3
SCAQMD Operations Thresholds (lbs/day)	55	55	550	150	150	55
Significant Impact?	NO	NO	NO	NO	NO	NO

Construction Emissions

Peak Daily Construction Emissions (lb/day)						
Year	VOC	NOx	CO	SO2	PM10	PM2.5
Summer						
2013	3	19	15	0	25	1
2014	51	17	15	0	25	1
Winter						
2013	3	19	15	0	25	1
2014	51	17	15	0	25	1
Max Daily Emissions	51	19	15	0.03	25	1

Emissions calculated by CalEEMod

Peak Daily Onsite Construction Emissions (lb/day)						
Year	VOC	NOx	CO	SO2	PM10	PM2.5
Summer						
2013	4	26	17	0.03	2	2
2014	55	31	22	0.04	2	2
Winter						
2013	4	26	17	0.03	2	2
2014	55	31	22	0.04	2	2
Max Daily Emissions	55	31	22	0.04	2	2
Localized Significance Thresholds	NA	245	6,815	NA	155	79
Significant Impact?	NA	NO	NO	NA	NO	NO

Emissions calculated by CalEEMod

Peak Daily Offsite Construction Emissions (lb/day)						
Year	VOC	NOx	CO	SO2	PM10	PM2.5
Summer						
2013	1	4	7	0.01	25	0.2
2014	1	3	6	0.01	24	0.2
Winter						
2013	1	4	7	0.01	25	0.2
2014	1	4	6	0.01	24	0.2
Max Daily Emissions	1	4	7	0.01	25	0.2

Emissions calculated by CalEEMod

Operational Emissions

Peak Daily Operational Emissions (lb/day)						
	VOC	NOx	CO	SO2	PM10	PM2.5
Mobile/Energy Use/Area Emissions						
Summer	3	5	20	0.03	4	0.3
Winter	3	5	21	0.03	4	0.3
Max Daily Emissions	3	5	21	0.03	4	0.3
Localized Significance Thresholds	NA	NA	NA	NA	38	19
Significant Impact?	NA	NA	NA	NA	NO	NO

Emissions calculated by CalEEMod

Annual Construction & Operation Criteria Pollutant Emissions						
	VOC	NOx	CO	SO2	PM10	PM2.5
Construction Emissions (tons per year)						
2013	0.1	0.6	0.5	0.0	0.5	0.0
2014	0.6	1.9	1.6	0.0	2.3	0.1
Total	0.7	2.4	2.1	0.0	2.8	0.2
Operational Emissions (tons per year)						
	0.5	0.9	3.8	0.0	0.6	0.1
Annual Emissions (tons per year)						
2013	0.1	0.6	0.5	0.0	0.5	0.0
2014	0.7	2.0	2.3	0.0	2.4	0.1
2015 & beyond	0.5	0.9	3.8	0.0	0.6	0.1
General Conformity de Minimis Thresholds	10	10	100	100	70	100
Significant Impact?	NO	NO	NO	NO	NO	NO

Emissions calculated by CalEEMod

**Donald C. Tillman Water Reclamation Plant
Personnel and Multi-Use Facility Project
Greenhouse Gas Emissions Calculations**

Construction Emissions

Annual Construction Emissions							
Year	(metric tons per year)			(metric tons CO2 equivalent per year)			
	CO2	CH4	N2O	CO2	CH4	N2O	Total
2013	75	0.01	0	75	0.21	0	75
2014	285	0.02	0	285	0.42	0	286
Total	360	0.03	0	360	0.63	0	361
Amortized Construction	12	0.00	0	12	0.02	0	12

Emissions calculated by CalEEMod

Operational Emissions

Annual Construction Emissions							
	(metric tons per year)			(metric tons CO2 equivalent per year)			
	CO2	CH4	N2O	CO2	CH4	N2O	Total
2014 and beyond	743	1	0	743	28	0	773
Amortized Construction + Operation	755	1	0	755	28	0	785

Emissions calculated by CalEEMod

Project Construction & Operation GHG Emissions (MTCO2e)	
Construction Emissions	361
Operational Emissions	773
Amortized total	785
SCAQMD GHG Thresholds (MTCO2e/yr)	10,000
Significant Impact?	NO

	CO2	CH4	N2O
Global Warming Potential	1	21	310

**Donald C. Tillman Water Reclamation Plant Multi-Use Facility Project
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Government (Civic Center)	17.892	1000sqft
Parking Lot	10.35	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 12 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics -

Land Use - 14,000 square feet = graded area; 17,892 square feet = total building area; 10,350 square feet = parking lot

Construction Phase - Site preparation and grading 1 month; building construction-paving-architectural coating 12 months

Off-road Equipment - Data received indicates that only one backhoe would be used.

Off-road Equipment - Forklifts = zoom boom, scissor lift, and sky track; only one backhoe used during construction.

Off-road Equipment - Default equipment not being used set to zero; pump added based on data received.

Off-road Equipment - .

Grading - Acreage = total of building grading (14,000 sq ft) and parking (10,350 sq ft). Two passes assumed.

Trips and VMT - Building Construction = sum of mechanical, electrical, HVAC, fire sprinklers, and building/civil employees. Vendor trips for grading = water trucks (one per day). Building construction haul trips = 2 trucks/day x 250 days x 2 trips (round-trip); vendor trips for paving = concrete truck

Vehicle Trips - Saturday and Sunday trips assumed to be equal to workday.

Construction Off-road Equipment Mitigation -

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2013	0.08	0.57	0.45	0.00	0.48	0.03	0.51	0.01	0.03	0.04	0.00	74.92	74.92	0.01	0.00	75.05
2014	0.60	1.87	1.63	0.00	2.22	0.10	2.33	0.00	0.10	0.11	0.00	285.16	285.16	0.02	0.00	285.60
Total	0.68	2.44	2.08	0.00	2.70	0.13	2.84	0.01	0.13	0.15	0.00	360.08	360.08	0.03	0.00	360.65

2.1 Overall Construction

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	tons/yr										MT/yr					
2013	0.08	0.57	0.45	0.00	0.47	0.03	0.51	0.00	0.03	0.04	0.00	74.92	74.92	0.01	0.00	75.05
2014	0.60	1.87	1.63	0.00	2.22	0.10	2.33	0.00	0.10	0.11	0.00	285.16	285.16	0.02	0.00	285.60
Total	0.68	2.44	2.08	0.00	2.69	0.13	2.84	0.00	0.13	0.15	0.00	360.08	360.08	0.03	0.00	360.65

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	156.48	156.48	0.00	0.00	157.02
Mobile	0.39	0.92	3.76	0.01	0.56	0.04	0.60	0.02	0.04	0.06	0.00	526.66	526.66	0.02	0.00	527.11
Waste						0.00	0.00		0.00	0.00	20.70	0.00	20.70	1.22	0.00	46.39
Water						0.00	0.00		0.00	0.00	0.00	39.63	39.63	0.11	0.00	42.87
Total	0.52	0.93	3.77	0.01	0.56	0.04	0.60	0.02	0.04	0.06	20.70	722.77	743.47	1.35	0.00	773.39

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	156.48	156.48	0.00	0.00	157.02
Mobile	0.39	0.92	3.76	0.01	0.56	0.04	0.60	0.02	0.04	0.06	0.00	526.66	526.66	0.02	0.00	527.11
Waste						0.00	0.00		0.00	0.00	20.70	0.00	20.70	1.22	0.00	46.39
Water						0.00	0.00		0.00	0.00	0.00	39.63	39.63	0.11	0.00	42.87
Total	0.52	0.93	3.77	0.01	0.56	0.04	0.60	0.02	0.04	0.06	20.70	722.77	743.47	1.35	0.00	773.39

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.16	0.11	0.00		0.01	0.01		0.01	0.01	0.00	15.34	15.34	0.00	0.00	15.38
Total	0.02	0.16	0.11	0.00	0.01	0.01	0.02	0.01	0.01	0.02	0.00	15.34	15.34	0.00	0.00	15.38

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.73
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	2.51	0.00	0.00	2.51

3.2 Grading - 2013

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.16	0.11	0.00		0.01	0.01		0.01	0.01	0.00	15.34	15.34	0.00	0.00	15.38
Total	0.02	0.16	0.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	15.34	15.34	0.00	0.00	15.38

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.73	0.00	0.00	0.73
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	2.51	0.00	0.00	2.51

3.3 Building Construction - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.04	0.33	0.21	0.00		0.02	0.02		0.02	0.02	0.00	36.43	36.43	0.00	0.00	36.50
Total	0.04	0.33	0.21	0.00		0.02	0.02		0.02	0.02	0.00	36.43	36.43	0.00	0.00	36.50

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.05	0.03	0.00	0.45	0.00	0.45	0.00	0.00	0.00	0.00	6.55	6.55	0.00	0.00	6.56
Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.00	0.00	2.69
Worker	0.01	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	11.41	11.41	0.00	0.00	11.42
Total	0.02	0.08	0.12	0.00	0.46	0.00	0.46	0.00	0.00	0.00	0.00	20.65	20.65	0.00	0.00	20.67

3.3 Building Construction - 2013

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.04	0.33	0.21	0.00		0.02	0.02		0.02	0.02	0.00	36.43	36.43	0.00	0.00	36.50
Total	0.04	0.33	0.21	0.00		0.02	0.02		0.02	0.02	0.00	36.43	36.43	0.00	0.00	36.50

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.05	0.03	0.00	0.45	0.00	0.45	0.00	0.00	0.00	0.00	6.55	6.55	0.00	0.00	6.56
Vendor	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.69	2.69	0.00	0.00	2.69
Worker	0.01	0.01	0.08	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	11.41	11.41	0.00	0.00	11.42
Total	0.02	0.08	0.12	0.00	0.46	0.00	0.46	0.00	0.00	0.00	0.00	20.65	20.65	0.00	0.00	20.67

3.3 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.19	1.44	1.02	0.00		0.08	0.08		0.08	0.08	0.00	175.35	175.35	0.02	0.00	175.67
Total	0.19	1.44	1.02	0.00		0.08	0.08		0.08	0.08	0.00	175.35	175.35	0.02	0.00	175.67

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.02	0.20	0.12	0.00	2.15	0.01	2.16	0.00	0.01	0.01	0.00	31.62	31.62	0.00	0.00	31.64
Vendor	0.01	0.08	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	12.98	12.98	0.00	0.00	12.99
Worker	0.03	0.03	0.34	0.00	0.07	0.00	0.07	0.00	0.00	0.01	0.00	54.03	54.03	0.00	0.00	54.09
Total	0.06	0.31	0.52	0.00	2.22	0.01	2.24	0.00	0.01	0.02	0.00	98.63	98.63	0.00	0.00	98.72

3.3 Building Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.19	1.44	1.02	0.00		0.08	0.08		0.08	0.08	0.00	175.35	175.35	0.02	0.00	175.67
Total	0.19	1.44	1.02	0.00		0.08	0.08		0.08	0.08	0.00	175.35	175.35	0.02	0.00	175.67

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.02	0.20	0.12	0.00	2.15	0.01	2.16	0.00	0.01	0.01	0.00	31.62	31.62	0.00	0.00	31.64
Vendor	0.01	0.08	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	12.98	12.98	0.00	0.00	12.99
Worker	0.03	0.03	0.34	0.00	0.07	0.00	0.07	0.00	0.00	0.01	0.00	54.03	54.03	0.00	0.00	54.09
Total	0.06	0.31	0.52	0.00	2.22	0.01	2.24	0.00	0.01	0.02	0.00	98.63	98.63	0.00	0.00	98.72

3.4 Paving - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.10	0.06	0.00		0.01	0.01		0.01	0.01	0.00	8.49	8.49	0.00	0.00	8.52
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.10	0.06	0.00		0.01	0.01		0.01	0.01	0.00	8.49	8.49	0.00	0.00	8.52

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00	0.00	0.33
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.57	0.00	0.00	0.57
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.00	0.00	0.90

3.4 Paving - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.10	0.06	0.00		0.01	0.01		0.01	0.01	0.00	8.49	8.49	0.00	0.00	8.52
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.10	0.06	0.00		0.01	0.01		0.01	0.01	0.00	8.49	8.49	0.00	0.00	8.52

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33	0.00	0.00	0.33
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.57	0.00	0.00	0.57
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.00	0.00	0.90

3.5 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.33					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.66	1.66	0.00	0.00	0.00	1.66
Total	0.33	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.66	1.66	0.00	0.00	0.00	1.66

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.00	0.14
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.00	0.14

3.5 Architectural Coating - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.33					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.66	1.66	0.00	0.00	1.66	
Total	0.33	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.66	1.66	0.00	0.00	1.66	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.14
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.00	0.14

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.39	0.92	3.76	0.01	0.56	0.04	0.60	0.02	0.04	0.06	0.00	526.66	526.66	0.02	0.00	527.11
Unmitigated	0.39	0.92	3.76	0.01	0.56	0.04	0.60	0.02	0.04	0.06	0.00	526.66	526.66	0.02	0.00	527.11
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	499.54	499.54	499.54	1,035,260	1,035,260
Parking Lot	0.00	0.00	0.00		
Total	499.54	499.54	499.54	1,035,260	1,035,260

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Government (Civic Center)	8.90	13.30	7.40	75.00	20.00	5.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	146.05	146.05	0.00	0.00	146.52
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	146.05	146.05	0.00	0.00	146.52
NaturalGas Mitigated	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50
NaturalGas Unmitigated	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Government (Civic Center)	195560	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Government (Civic Center)	195560	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	10.44	10.44	0.00	0.00	10.50

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Government (Civic Center)	259971					146.05	0.00	0.00	146.52
Parking Lot	0					0.00	0.00	0.00	0.00
Total						146.05	0.00	0.00	146.52

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Government (Civic Center)	259971					146.05	0.00	0.00	146.52
Parking Lot	0					0.00	0.00	0.00	0.00
Total						146.05	0.00	0.00	146.52

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.03					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.03					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.10					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.13	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					39.63	0.11	0.00	42.87
Unmitigated					39.63	0.11	0.00	42.87
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Government (Civic Center)	3.55402 / 2.17827					39.63	0.11	0.00	42.87
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						39.63	0.11	0.00	42.87

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Government (Civic Center)	3.55402 / 2.17827					39.63	0.11	0.00	42.87
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						39.63	0.11	0.00	42.87

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					20.70	1.22	0.00	46.39
Unmitigated					20.70	1.22	0.00	46.39
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Government (Civic Center)	101.97					20.70	1.22	0.00	46.39
Parking Lot	0					0.00	0.00	0.00	0.00
Total						20.70	1.22	0.00	46.39

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Government (Civic Center)	101.97					20.70	1.22	0.00	46.39
Parking Lot	0					0.00	0.00	0.00	0.00
Total						20.70	1.22	0.00	46.39

9.0 Vegetation

**Donald C. Tillman Water Reclamation Plant Multi-Use Facility Project
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Government (Civic Center)	17.892	1000sqft
Parking Lot	10.35	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 12 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics -

Land Use - 14,000 square feet = graded area; 17,892 square feet = total building area; 10,350 square feet = parking lot

Construction Phase - Site preparation and grading 1 month; building construction-paving-architectural coating 12 months

Off-road Equipment - Data received indicates that only one backhoe would be used.

Off-road Equipment - Forklifts = zoom boom, scissor lift, and sky track; only one backhoe used during construction.

Off-road Equipment - Default equipment not being used set to zero; pump added based on data received.

Off-road Equipment - .

Grading - Acreage = total of building grading (14,000 sq ft) and parking (10,350 sq ft). Two passes assumed.

Trips and VMT - Building Construction = sum of mechanical, electrical, HVAC, fire sprinklers, and building/civil employees. Vendor trips for grading = water trucks (one per day). Building construction haul trips = 2 trucks/day x 250 days x 2 trips (round-trip); vendor trips for paving = concrete truck

Vehicle Trips - Saturday and Sunday trips assumed to be equal to workday.

Construction Off-road Equipment Mitigation -

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					
2013	2.62	18.57	15.48	0.03	24.06	1.03	25.10	0.42	1.03	1.26	0.00	2,959.78	0.00	0.23	0.00	2,964.59
2014	50.76	16.96	14.94	0.03	24.06	1.22	24.97	0.04	1.22	1.23	0.00	2,950.88	0.00	0.21	0.00	2,955.33
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.1 Overall Construction (Maximum Daily Emission)

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					
2013	2.62	18.57	15.48	0.03	24.06	1.03	25.10	0.19	1.03	1.08	0.00	2,959.78	0.00	0.23	0.00	2,964.59
2014	50.76	16.96	14.94	0.03	24.06	1.22	24.97	0.04	1.22	1.23	0.00	2,950.88	0.00	0.21	0.00	2,955.33
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Mobile	2.19	5.02	20.29	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,330.30		0.16		3,333.63
Total	2.94	5.07	20.33	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,393.33		0.16	0.00	3,397.05

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Mobile	2.19	5.02	20.29	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,330.30		0.16		3,333.63
Total	2.94	5.07	20.33	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,393.33		0.16	0.00	3,397.05

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.79	0.00	0.79	0.41	0.00	0.41						0.00
Off-Road	1.59	11.17	7.39	0.01		0.81	0.81		0.81	0.81		1,166.32		0.14		1,169.30
Total	1.59	11.17	7.39	0.01	0.79	0.81	1.60	0.41	0.81	1.22		1,166.32		0.14		1,169.30

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	0.03	0.25	0.14	0.00	0.30	0.01	0.31	0.00	0.01	0.01		37.73		0.00		37.75
Vendor	0.03	0.34	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.35		0.00		55.38
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
Total	0.11	0.64	0.98	0.00	0.44	0.02	0.47	0.00	0.02	0.03		195.87		0.01		196.05

3.2 Grading - 2013

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					0.36	0.00	0.36	0.19	0.00	0.19							0.00
Off-Road	1.59	11.17	7.39	0.01		0.81	0.81		0.81	0.81	0.00	1,166.32		0.14			1,169.30
Total	1.59	11.17	7.39	0.01	0.36	0.81	1.17	0.19	0.81	1.00	0.00	1,166.32		0.14			1,169.30

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	0.03	0.25	0.14	0.00	0.30	0.01	0.31	0.00	0.01	0.01		37.73		0.00		37.75
Vendor	0.03	0.34	0.22	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.35		0.00		55.38
Worker	0.05	0.05	0.62	0.00	0.12	0.00	0.13	0.00	0.00	0.01		102.79		0.01		102.92
Total	0.11	0.64	0.98	0.00	0.44	0.02	0.47	0.00	0.02	0.03		195.87		0.01		196.05

3.3 Building Construction - 2013

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	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88		1,868.04		0.18		1,871.75
Total	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88		1,868.04		0.18		1,871.75

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	0.23	2.19	1.27	0.00	23.28	0.10	23.38	0.01	0.10	0.11		336.64		0.01		336.87
Vendor	0.08	0.85	0.55	0.00	0.05	0.03	0.08	0.00	0.03	0.03		138.38		0.00		138.46
Worker	0.32	0.32	3.74	0.01	0.74	0.03	0.76	0.03	0.03	0.05		616.73		0.04		617.50
Total	0.63	3.36	5.56	0.01	24.07	0.16	24.22	0.04	0.16	0.19		1,091.75		0.05		1,092.83

3.3 Building Construction - 2013

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	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88	0.00	1,868.04		0.18		1,871.75
Total	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88	0.00	1,868.04		0.18		1,871.75

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	0.23	2.19	1.27	0.00	23.28	0.10	23.38	0.01	0.10	0.11		336.64		0.01		336.87
Vendor	0.08	0.85	0.55	0.00	0.05	0.03	0.08	0.00	0.03	0.03		138.38		0.00		138.46
Worker	0.32	0.32	3.74	0.01	0.74	0.03	0.76	0.03	0.03	0.05		616.73		0.04		617.50
Total	0.63	3.36	5.56	0.01	24.07	0.16	24.22	0.04	0.16	0.19		1,091.75		0.05		1,092.83

3.3 Building Construction - 2014

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	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77		1,868.04		0.16		1,871.46
Total	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77		1,868.04		0.16		1,871.46

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	0.20	1.96	1.13	0.00	23.28	0.09	23.36	0.01	0.09	0.10		337.43		0.01		337.64
Vendor	0.07	0.77	0.50	0.00	0.05	0.03	0.07	0.00	0.03	0.03		138.65		0.00		138.73
Worker	0.30	0.29	3.45	0.01	0.74	0.03	0.76	0.03	0.03	0.05		606.76		0.03		607.49
Total	0.57	3.02	5.08	0.01	24.07	0.15	24.19	0.04	0.15	0.18		1,082.84		0.04		1,083.86

3.3 Building Construction - 2014

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	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77	0.00	1,868.04		0.16		1,871.46
Total	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77	0.00	1,868.04		0.16		1,871.46

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	0.20	1.96	1.13	0.00	23.28	0.09	23.36	0.01	0.09	0.10		337.43		0.01		337.64
Vendor	0.07	0.77	0.50	0.00	0.05	0.03	0.07	0.00	0.03	0.03		138.65		0.00		138.73
Worker	0.30	0.29	3.45	0.01	0.74	0.03	0.76	0.03	0.03	0.05		606.76		0.03		607.49
Total	0.57	3.02	5.08	0.01	24.07	0.15	24.19	0.04	0.15	0.18		1,082.84		0.04		1,083.86

3.4 Paving - 2014

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	2.28	14.69	9.75	0.02		1.21	1.21		1.21	1.21		1,440.32		0.20		1,444.62
Paving	0.05					0.00	0.00		0.00	0.00						0.00
Total	2.33	14.69	9.75	0.02		1.21	1.21		1.21	1.21		1,440.32		0.20		1,444.62

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.46		0.00		55.49
Worker	0.05	0.05	0.57	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.13		0.01		101.25
Total	0.08	0.36	0.77	0.00	0.14	0.01	0.16	0.00	0.01	0.02		156.59		0.01		156.74

3.4 Paving - 2014

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	2.28	14.69	9.75	0.02		1.21	1.21		1.21	1.21	0.00	1,440.32		0.20		1,444.62
Paving	0.05					0.00	0.00		0.00	0.00						0.00
Total	2.33	14.69	9.75	0.02		1.21	1.21		1.21	1.21	0.00	1,440.32		0.20		1,444.62

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.31	0.20	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.46		0.00		55.49
Worker	0.05	0.05	0.57	0.00	0.12	0.00	0.13	0.00	0.00	0.01		101.13		0.01		101.25
Total	0.08	0.36	0.77	0.00	0.14	0.01	0.16	0.00	0.01	0.02		156.59		0.01		156.74

3.5 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.30					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
Total	50.75	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		25.28		0.00		25.31
Total	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		25.28		0.00		25.31

3.5 Architectural Coating - 2014

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	50.30					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04		282.03
Total	50.75	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04		282.03

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		25.28		0.00		25.31
Total	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		25.28		0.00		25.31

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.19	5.02	20.29	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,330.30		0.16		3,333.63
Unmitigated	2.19	5.02	20.29	0.03	3.43	0.21	3.64	0.12	0.21	0.33		3,330.30		0.16		3,333.63
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	499.54	499.54	499.54	1,035,260	1,035,260
Parking Lot	0.00	0.00	0.00		
Total	499.54	499.54	499.54	1,035,260	1,035,260

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Government (Civic Center)	8.90	13.30	7.40	75.00	20.00	5.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
NaturalGas Unmitigated	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Government (Civic Center)	535.78	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Government (Civic Center)	0.53578	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.56					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.56					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Donald C. Tillman Water Reclamation Plant Multi-Use Facility Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Government (Civic Center)	17.892	1000sqft
Parking Lot	10.35	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Utility Company** Los Angeles Department of Water & Power
Climate Zone 12 **Precipitation Freq (Days)** 33

1.3 User Entered Comments

Project Characteristics -

Land Use - 14,000 square feet = graded area; 17,892 square feet = total building area; 10,350 square feet = parking lot

Construction Phase - Site preparation and grading 1 month; building construction-paving-architectural coating 12 months

Off-road Equipment - Data received indicates that only one backhoe would be used.

Off-road Equipment - Forklifts = zoom boom, scissor lift, and sky track; only one backhoe used during construction.

Off-road Equipment - Default equipment not being used set to zero; pump added based on data received.

Off-road Equipment - .

Grading - Acreage = total of building grading (14,000 sq ft) and parking (10,350 sq ft). Two passes assumed.

Trips and VMT - Building Construction = sum of mechanical, electrical, HVAC, fire sprinklers, and building/civil employees. Vendor trips for grading = water trucks (one per day). Building construction haul trips = 2 trucks/day x 250 days x 2 trips (round-trip); vendor trips for paving = concrete truck

Vehicle Trips - Saturday and Sunday trips assumed to be equal to workday.

Construction Off-road Equipment Mitigation -

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					
2013	2.66	18.78	15.45	0.03	24.06	1.04	25.10	0.42	1.04	1.26	0.00	2,911.86	0.00	0.23	0.00	2,916.65
2014	50.76	17.14	14.91	0.03	24.06	1.22	24.98	0.04	1.22	1.23	0.00	2,903.62	0.00	0.21	0.00	2,908.07
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.1 Overall Construction (Maximum Daily Emission)

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					
2013	2.66	18.78	15.45	0.03	24.06	1.04	25.10	0.19	1.04	1.08	0.00	2,911.86	0.00	0.23	0.00	2,916.65
2014	50.76	17.14	14.91	0.03	24.06	1.22	24.98	0.04	1.22	1.23	0.00	2,903.62	0.00	0.21	0.00	2,908.07
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Mobile	2.28	5.40	20.55	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,129.37		0.13		3,132.12
Total	3.03	5.45	20.59	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,192.40		0.13	0.00	3,195.54

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Mobile	2.28	5.40	20.55	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,129.37		0.13		3,132.12
Total	3.03	5.45	20.59	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,192.40		0.13	0.00	3,195.54

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.79	0.00	0.79	0.41	0.00	0.41						0.00
Off-Road	1.59	11.17	7.39	0.01		0.81	0.81		0.81	0.81		1,166.32		0.14		1,169.30
Total	1.59	11.17	7.39	0.01	0.79	0.81	1.60	0.41	0.81	1.22		1,166.32		0.14		1,169.30

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	0.03	0.26	0.15	0.00	0.30	0.01	0.31	0.00	0.01	0.01		37.55		0.00		37.58
Vendor	0.03	0.36	0.25	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.96		0.00		54.99
Worker	0.06	0.06	0.59	0.00	0.12	0.00	0.13	0.00	0.00	0.01		95.23		0.01		95.35
Total	0.12	0.68	0.99	0.00	0.44	0.02	0.47	0.00	0.02	0.03		187.74		0.01		187.92

3.2 Grading - 2013

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					0.36	0.00	0.36	0.19	0.00	0.19						0.00
Off-Road	1.59	11.17	7.39	0.01		0.81	0.81		0.81	0.81	0.00	1,166.32		0.14		1,169.30
Total	1.59	11.17	7.39	0.01	0.36	0.81	1.17	0.19	0.81	1.00	0.00	1,166.32		0.14		1,169.30

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	0.03	0.26	0.15	0.00	0.30	0.01	0.31	0.00	0.01	0.01		37.55		0.00		37.58
Vendor	0.03	0.36	0.25	0.00	0.02	0.01	0.03	0.00	0.01	0.01		54.96		0.00		54.99
Worker	0.06	0.06	0.59	0.00	0.12	0.00	0.13	0.00	0.00	0.01		95.23		0.01		95.35
Total	0.12	0.68	0.99	0.00	0.44	0.02	0.47	0.00	0.02	0.03		187.74		0.01		187.92

3.3 Building Construction - 2013

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	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88		1,868.04		0.18		1,871.75
Total	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88		1,868.04		0.18		1,871.75

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	0.23	2.31	1.36	0.00	23.28	0.10	23.38	0.01	0.10	0.11		335.07		0.01		335.31
Vendor	0.09	0.89	0.62	0.00	0.05	0.03	0.08	0.00	0.03	0.03		137.40		0.00		137.49
Worker	0.35	0.37	3.54	0.01	0.74	0.03	0.76	0.03	0.03	0.05		571.35		0.04		572.10
Total	0.67	3.57	5.52	0.01	24.07	0.16	24.22	0.04	0.16	0.19		1,043.82		0.05		1,044.90

3.3 Building Construction - 2013

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	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88	0.00	1,868.04		0.18		1,871.75
Total	1.99	15.21	9.93	0.02		0.88	0.88		0.88	0.88	0.00	1,868.04		0.18		1,871.75

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	0.23	2.31	1.36	0.00	23.28	0.10	23.38	0.01	0.10	0.11		335.07		0.01		335.31
Vendor	0.09	0.89	0.62	0.00	0.05	0.03	0.08	0.00	0.03	0.03		137.40		0.00		137.49
Worker	0.35	0.37	3.54	0.01	0.74	0.03	0.76	0.03	0.03	0.05		571.35		0.04		572.10
Total	0.67	3.57	5.52	0.01	24.07	0.16	24.22	0.04	0.16	0.19		1,043.82		0.05		1,044.90

3.3 Building Construction - 2014

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	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77		1,868.04		0.16		1,871.46
Total	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77		1,868.04		0.16		1,871.46

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	0.21	2.06	1.23	0.00	23.28	0.09	23.37	0.01	0.09	0.10		335.82		0.01		336.03
Vendor	0.08	0.80	0.56	0.00	0.05	0.03	0.07	0.00	0.03	0.03		137.64		0.00		137.72
Worker	0.33	0.34	3.26	0.01	0.74	0.03	0.76	0.03	0.03	0.05		562.12		0.03		562.81
Total	0.62	3.20	5.05	0.01	24.07	0.15	24.20	0.04	0.15	0.18		1,035.58		0.04		1,036.56

3.3 Building Construction - 2014

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	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77	0.00	1,868.04		0.16		1,871.46
Total	1.83	13.94	9.86	0.02		0.77	0.77		0.77	0.77	0.00	1,868.04		0.16		1,871.46

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	0.21	2.06	1.23	0.00	23.28	0.09	23.37	0.01	0.09	0.10		335.82		0.01		336.03
Vendor	0.08	0.80	0.56	0.00	0.05	0.03	0.07	0.00	0.03	0.03		137.64		0.00		137.72
Worker	0.33	0.34	3.26	0.01	0.74	0.03	0.76	0.03	0.03	0.05		562.12		0.03		562.81
Total	0.62	3.20	5.05	0.01	24.07	0.15	24.20	0.04	0.15	0.18		1,035.58		0.04		1,036.56

3.4 Paving - 2014

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	2.28	14.69	9.75	0.02		1.21	1.21		1.21	1.21		1,440.32		0.20		1,444.62
Paving	0.05					0.00	0.00		0.00	0.00						0.00
Total	2.33	14.69	9.75	0.02		1.21	1.21		1.21	1.21		1,440.32		0.20		1,444.62

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.32	0.23	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.06		0.00		55.09
Worker	0.05	0.06	0.54	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.69		0.01		93.80
Total	0.08	0.38	0.77	0.00	0.14	0.01	0.16	0.00	0.01	0.02		148.75		0.01		148.89

3.4 Paving - 2014

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	2.28	14.69	9.75	0.02		1.21	1.21		1.21	1.21	0.00	1,440.32		0.20		1,444.62
Paving	0.05					0.00	0.00		0.00	0.00						0.00
Total	2.33	14.69	9.75	0.02		1.21	1.21		1.21	1.21	0.00	1,440.32		0.20		1,444.62

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.03	0.32	0.23	0.00	0.02	0.01	0.03	0.00	0.01	0.01		55.06		0.00		55.09
Worker	0.05	0.06	0.54	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.69		0.01		93.80
Total	0.08	0.38	0.77	0.00	0.14	0.01	0.16	0.00	0.01	0.02		148.75		0.01		148.89

3.5 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.30					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
Total	50.75	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		23.42		0.00		23.45
Total	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		23.42		0.00		23.45

3.5 Architectural Coating - 2014

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	50.30					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04		282.03
Total	50.75	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04		282.03

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		23.42		0.00		23.45
Total	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00		23.42		0.00		23.45

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.28	5.40	20.55	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,129.37		0.13		3,132.12
Unmitigated	2.28	5.40	20.55	0.03	3.43	0.22	3.64	0.12	0.22	0.33		3,129.37		0.13		3,132.12
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	499.54	499.54	499.54	1,035,260	1,035,260
Parking Lot	0.00	0.00	0.00		
Total	499.54	499.54	499.54	1,035,260	1,035,260

4.3 Trip Type Information

Land Use	Miles			Trip %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Government (Civic Center)	8.90	13.30	7.40	75.00	20.00	5.00
Parking Lot	8.90	13.30	7.40	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
NaturalGas Unmitigated	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Government (Civic Center)	535.78	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Government (Civic Center)	0.53578	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total		0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00		63.03		0.00	0.00	63.42

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.56					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.18					0.00	0.00		0.00	0.00						0.00
Consumer Products	0.56					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	0.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation
