

**Appendix F:
CalEEMod Emissions Estimate Detail**

Draft Environmental Impact Report for Lake Merritt Station Area Plan
Appendix F: CalEEMod Emissions Estimate Detail

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**Lake Merritt
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	1229	1000sqft
Junior College (2Yr)	108	1000sqft
Parking Structure	5088	Space
City Park	14.85	Acre
Apartments High Rise	4058	Dwelling Unit
Apartments Mid Rise	887	Dwelling Unit
Strip Mall	403.79	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Utility Company	Pacific Gas & Electric Company
Climate Zone	5	Precipitation Freq (Days)	64		

1.3 User Entered Comments

Project Characteristics -

Land Use - Values updated based on detailed development potential table. Non-residential uses have 0 acreage where mixed with residential. Retail has 0 acreage where mixed with office.

Construction Phase - Default values.

Off-road Equipment - Default equipment.

Off-road Equipment - Default equipment.

Off-road Equipment - Default equipment.

Off-road Equipment - Default equipment.

Off-road Equipment - Default equipment.

Off-road Equipment - Default equipment.

Trips and VMT - Default values.

On-road Fugitive Dust - Default values.

Demolition - Based on square footage of existing uses on opportunity sites. Assumes 1,000 sf per residential unit redeveloped.

Grading - Default.

Architectural Coating - Default values.

Vehicle Trips - Updated rates based on Transportation Impact Analysis Memorandum of Assumptions ITE rates.

Vehicle Emission Factors - Default values.

Vehicle Emission Factors - Default values.

Vehicle Emission Factors - Default values.

Road Dust - Default values.

Woodstoves - Default values.

Consumer Products - Default values.

Area Coating - Default values.

Landscape Equipment - Default values.

Energy Use - Default values.

Water And Wastewater - Wastewater treatment data updated based on EBMUD feedback (100% anaerobic digestion with cogeneration from combustion of digester gas).

Solid Waste - Default values.

Land Use Change - Default values.

Sequestration -

Construction Off-road Equipment Mitigation - No mitigation measures assumed.

Mobile Land Use Mitigation - Assumptions: 218 average units/acre; 85.6 average jobs/acre; 166.6 intersections/square mile; 0.25 miles to job center (max); 0.25 miles to transit (max); 25% of streets and intersections improved for traffic calming; 10% lines BRT.

Mobile Commute Mitigation - Trip reduction program based on TDM Plan Policy and City COA. Unknown employee eligibility due to type of business.

Area Mitigation - VOC per CalGreen Mandatory Measure Table 4.504.3 nonflat coatings.

Energy Mitigation - Energy improvement per CalGreen Mandatory Measure green building assumption.

Water Mitigation - Water conservation per CalGreen Mandatory Measure for indoor water use.

Waste Mitigation - Reduction based on Oakland 2010 diversion rate (stopwaste.org).

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					
2011	4.00	19.94	31.51	0.05	3.95	0.88	4.83	0.35	0.85	1.20	0.00	4,221.93	4,221.93	0.31	0.00	4,228.46
2012	6.98	27.74	61.78	0.09	7.22	1.13	8.36	0.13	1.07	1.21	0.00	8,663.08	8,663.08	0.54	0.00	8,674.34
2013	6.42	25.37	56.54	0.09	7.22	1.05	8.28	0.13	0.99	1.13	0.00	8,552.21	8,552.21	0.49	0.00	8,562.54
2014	100.31	11.16	24.62	0.04	3.40	0.51	3.92	0.06	0.49	0.55	0.00	3,966.27	3,966.27	0.22	0.00	3,970.93
Total	117.71	84.21	174.45	0.27	21.79	3.57	25.39	0.67	3.40	4.09	0.00	25,403.49	25,403.49	1.56	0.00	25,436.27

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					
2011	4.00	19.94	31.51	0.05	0.83	0.88	1.71	0.35	0.85	1.20	0.00	4,221.93	4,221.93	0.31	0.00	4,228.46
2012	6.98	27.74	61.78	0.09	0.38	1.13	1.51	0.13	1.07	1.21	0.00	8,663.08	8,663.08	0.54	0.00	8,674.34
2013	6.42	25.37	56.54	0.09	0.38	1.05	1.43	0.13	0.99	1.13	0.00	8,552.21	8,552.21	0.49	0.00	8,562.54
2014	100.31	11.16	24.62	0.04	0.18	0.51	0.69	0.06	0.49	0.55	0.00	3,966.27	3,966.27	0.22	0.00	3,970.93
Total	117.71	84.21	174.45	0.27	1.77	3.57	5.34	0.67	3.40	4.09	0.00	25,403.49	25,403.49	1.56	0.00	25,436.27

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	66.88	0.90	77.93	0.03		0.00	6.08		0.00	6.08	587.58	446.35	1,033.93	0.99	0.04	1,067.63
Energy	0.45	3.93	2.30	0.02		0.00	0.31		0.00	0.31	0.00	16,193.60	16,193.60	0.62	0.28	16,294.27
Mobile	17.18	30.07	133.95	0.56	52.30	2.39	54.69	0.91	2.09	3.00	0.00	37,597.54	37,597.54	1.13	0.00	37,621.25
Waste						0.00	0.00		0.00	0.00	808.58	0.00	808.58	47.79	0.00	1,812.08
Water						0.00	0.00		0.00	0.00	0.00	1,413.97	1,413.97	0.76	0.46	1,571.94
Total	84.51	34.90	214.18	0.61	52.30	2.39	61.08	0.91	2.09	9.39	1,396.16	55,651.46	57,047.62	51.29	0.78	58,367.17

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	31.21	0.43	36.99	0.00		0.00	0.27		0.00	0.27	0.00	992.75	992.75	0.08	0.02	999.63
Energy	0.39	3.42	1.99	0.02		0.00	0.27		0.00	0.27	0.00	15,208.45	15,208.45	0.59	0.27	15,303.05
Mobile	12.65	23.42	95.59	0.35	32.26	1.54	33.80	0.56	1.35	1.91	0.00	23,741.96	23,741.96	0.75	0.00	23,757.61
Waste						0.00	0.00		0.00	0.00	283.00	0.00	283.00	16.72	0.00	634.23
Water						0.00	0.00		0.00	0.00	0.00	1,208.82	1,208.82	0.61	0.37	1,335.69
Total	44.25	27.27	134.57	0.37	32.26	1.54	34.34	0.56	1.35	2.45	283.00	41,151.98	41,434.98	18.75	0.66	42,030.21

2.3 Vegetation

Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					0.00
Total					0.00

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2011

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					0.08	0.00	0.08	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.25	2.00	1.15	0.00		0.10	0.10		0.10	0.10	0.00	170.30	170.30	0.02	0.00	170.72
Total	0.25	2.00	1.15	0.00	0.08	0.10	0.18	0.01	0.10	0.11	0.00	170.30	170.30	0.02	0.00	170.72

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	0.24	0.13	0.00	0.35	0.01	0.36	0.00	0.01	0.01	0.00	28.07	28.07	0.00	0.00	28.09
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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.00	0.00	3.99
Total	0.02	0.24	0.17	0.00	0.35	0.01	0.36	0.00	0.01	0.01	0.00	32.06	32.06	0.00	0.00	32.08

3.2 Demolition - 2011

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					0.08	0.00	0.08	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.25	2.00	1.15	0.00		0.10	0.10		0.10	0.10	0.00	170.30	170.30	0.02	0.00	170.72
Total	0.25	2.00	1.15	0.00	0.08	0.10	0.18	0.01	0.10	0.11	0.00	170.30	170.30	0.02	0.00	170.72

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	0.24	0.13	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	28.07	28.07	0.00	0.00	28.09
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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99	3.99	0.00	0.00	3.99
Total	0.02	0.24	0.17	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	32.06	32.06	0.00	0.00	32.08

3.3 Site Preparation - 2011

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					0.27	0.00	0.27	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.16	1.35	0.76	0.00		0.07	0.07		0.07	0.07	0.00	108.80	108.80	0.01	0.00	109.08
Total	0.16	1.35	0.76	0.00	0.27	0.07	0.34	0.15	0.07	0.22	0.00	108.80	108.80	0.01	0.00	109.08

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	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87
Total	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87

3.3 Site Preparation - 2011

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					0.27	0.00	0.27	0.15	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.16	1.35	0.76	0.00		0.07	0.07		0.07	0.07	0.00	108.80	108.80	0.01	0.00	109.08
Total	0.16	1.35	0.76	0.00	0.27	0.07	0.34	0.15	0.07	0.22	0.00	108.80	108.80	0.01	0.00	109.08

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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87
Total	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87

3.4 Grading - 2011

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					0.33	0.00	0.33	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.49	4.15	2.16	0.00		0.20	0.20		0.20	0.20	0.00	369.24	369.24	0.04	0.00	370.08
Total	0.49	4.15	2.16	0.00	0.33	0.20	0.53	0.13	0.20	0.33	0.00	369.24	369.24	0.04	0.00	370.08

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	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.01	0.07	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.97	7.97	0.00	0.00	7.99
Total	0.01	0.01	0.07	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	7.97	7.97	0.00	0.00	7.99

3.4 Grading - 2011

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					0.33	0.00	0.33	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.49	4.15	2.16	0.00		0.20	0.20		0.20	0.20	0.00	369.24	369.24	0.04	0.00	370.08
Total	0.49	4.15	2.16	0.00	0.33	0.20	0.53	0.13	0.20	0.33	0.00	369.24	369.24	0.04	0.00	370.08

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	0.01	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.97	7.97	0.00	0.00	7.99
Total	0.01	0.01	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.97	7.97	0.00	0.00	7.99

3.5 Building Construction - 2011

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	0.32	2.11	1.26	0.00		0.15	0.15		0.15	0.15	0.00	192.39	192.39	0.03	0.00	192.94
Total	0.32	2.11	1.26	0.00		0.15	0.15		0.15	0.15	0.00	192.39	192.39	0.03	0.00	192.94

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	0.75	8.01	5.61	0.01	0.32	0.25	0.56	0.01	0.23	0.24	0.00	1,034.37	1,034.37	0.03	0.00	1,035.09
Worker	1.98	2.07	20.31	0.02	2.59	0.10	2.69	0.04	0.09	0.13	0.00	2,303.94	2,303.94	0.18	0.00	2,307.62
Total	2.73	10.08	25.92	0.03	2.91	0.35	3.25	0.05	0.32	0.37	0.00	3,338.31	3,338.31	0.21	0.00	3,342.71

3.5 Building Construction - 2011

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	0.32	2.11	1.26	0.00		0.15	0.15		0.15	0.15	0.00	192.39	192.39	0.03	0.00	192.94
Total	0.32	2.11	1.26	0.00		0.15	0.15		0.15	0.15	0.00	192.39	192.39	0.03	0.00	192.94

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	0.75	8.01	5.61	0.01	0.03	0.25	0.28	0.01	0.23	0.24	0.00	1,034.37	1,034.37	0.03	0.00	1,035.09
Worker	1.98	2.07	20.31	0.02	0.12	0.10	0.22	0.04	0.09	0.13	0.00	2,303.94	2,303.94	0.18	0.00	2,307.62
Total	2.73	10.08	25.92	0.03	0.15	0.35	0.50	0.05	0.32	0.37	0.00	3,338.31	3,338.31	0.21	0.00	3,342.71

3.5 Building Construction - 2012

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	0.73	4.87	3.10	0.01		0.33	0.33		0.33	0.33	0.00	478.23	478.23	0.06	0.00	479.48
Total	0.73	4.87	3.10	0.01		0.33	0.33		0.33	0.33	0.00	478.23	478.23	0.06	0.00	479.48

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	1.73	18.21	12.92	0.03	0.79	0.56	1.35	0.02	0.51	0.54	0.00	2,577.59	2,577.59	0.08	0.00	2,579.23
Worker	4.51	4.66	45.77	0.06	6.44	0.24	6.68	0.11	0.23	0.34	0.00	5,607.26	5,607.26	0.40	0.00	5,615.63
Total	6.24	22.87	58.69	0.09	7.23	0.80	8.03	0.13	0.74	0.88	0.00	8,184.85	8,184.85	0.48	0.00	8,194.86

3.5 Building Construction - 2012

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	0.73	4.87	3.10	0.01		0.33	0.33		0.33	0.33	0.00	478.23	478.23	0.06	0.00	479.48
Total	0.73	4.87	3.10	0.01		0.33	0.33		0.33	0.33	0.00	478.23	478.23	0.06	0.00	479.48

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	1.73	18.21	12.92	0.03	0.07	0.56	0.63	0.02	0.51	0.54	0.00	2,577.59	2,577.59	0.08	0.00	2,579.23
Worker	4.51	4.66	45.77	0.06	0.30	0.24	0.55	0.11	0.23	0.34	0.00	5,607.26	5,607.26	0.40	0.00	5,615.63
Total	6.24	22.87	58.69	0.09	0.37	0.80	1.18	0.13	0.74	0.88	0.00	8,184.85	8,184.85	0.48	0.00	8,194.86

3.5 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	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38
Total	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38

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	0.00	0.00	0.00	0.00	0.00
Vendor	1.60	16.63	11.97	0.03	0.79	0.51	1.30	0.02	0.47	0.49	0.00	2,583.63	2,583.63	0.07	0.00	2,585.14
Worker	4.14	4.22	41.51	0.06	6.44	0.25	6.68	0.11	0.23	0.34	0.00	5,490.36	5,490.36	0.36	0.00	5,498.02
Total	5.74	20.85	53.48	0.09	7.23	0.76	7.98	0.13	0.70	0.83	0.00	8,073.99	8,073.99	0.43	0.00	8,083.16

3.5 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	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38
Total	0.67	4.52	3.06	0.01		0.30	0.30		0.30	0.30	0.00	478.23	478.23	0.05	0.00	479.38

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	0.00	0.00	0.00	0.00	0.00
Vendor	1.60	16.63	11.97	0.03	0.07	0.51	0.58	0.02	0.47	0.49	0.00	2,583.63	2,583.63	0.07	0.00	2,585.14
Worker	4.14	4.22	41.51	0.06	0.30	0.25	0.55	0.11	0.23	0.34	0.00	5,490.36	5,490.36	0.36	0.00	5,498.02
Total	5.74	20.85	53.48	0.09	0.37	0.76	1.13	0.13	0.70	0.83	0.00	8,073.99	8,073.99	0.43	0.00	8,083.16

3.5 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	0.27	1.81	1.31	0.00		0.11	0.11		0.11	0.11	0.00	207.05	207.05	0.02	0.00	207.50
Total	0.27	1.81	1.31	0.00		0.11	0.11		0.11	0.11	0.00	207.05	207.05	0.02	0.00	207.50

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	0.00	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	0.64	6.58	4.79	0.01	0.34	0.20	0.54	0.01	0.18	0.19	0.00	1,121.05	1,121.05	0.03	0.00	1,121.65
Worker	1.65	1.65	16.28	0.03	2.79	0.11	2.89	0.05	0.10	0.15	0.00	2,327.58	2,327.58	0.14	0.00	2,330.62
Total	2.29	8.23	21.07	0.04	3.13	0.31	3.43	0.06	0.28	0.34	0.00	3,448.63	3,448.63	0.17	0.00	3,452.27

3.5 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	0.27	1.81	1.31	0.00		0.11	0.11		0.11	0.11	0.00	207.05	207.05	0.02	0.00	207.50
Total	0.27	1.81	1.31	0.00		0.11	0.11		0.11	0.11	0.00	207.05	207.05	0.02	0.00	207.50

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	0.00	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	0.64	6.58	4.79	0.01	0.03	0.20	0.23	0.01	0.18	0.19	0.00	1,121.05	1,121.05	0.03	0.00	1,121.65
Worker	1.65	1.65	16.28	0.03	0.13	0.11	0.24	0.05	0.10	0.15	0.00	2,327.58	2,327.58	0.14	0.00	2,330.62
Total	2.29	8.23	21.07	0.04	0.16	0.31	0.47	0.06	0.28	0.34	0.00	3,448.63	3,448.63	0.17	0.00	3,452.27

3.6 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	0.14	0.88	0.57	0.00		0.08	0.08		0.08	0.08	0.00	72.77	72.77	0.01	0.00	73.01
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.88	0.57	0.00		0.08	0.08		0.08	0.08	0.00	72.77	72.77	0.01	0.00	73.01

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	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	4.12	4.12	0.00	0.00	4.12
Total	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	4.12	4.12	0.00	0.00	4.12

3.6 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	0.14	0.88	0.57	0.00		0.08	0.08		0.08	0.08	0.00	72.77	72.77	0.01	0.00	73.01
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.14	0.88	0.57	0.00		0.08	0.08		0.08	0.08	0.00	72.77	72.77	0.01	0.00	73.01

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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.00	0.00	4.12
Total	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.00	0.00	4.12

3.7 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	97.44					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	7.01	7.01	0.00	0.00	7.03
Total	97.45	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	7.01	7.01	0.00	0.00	7.03

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	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	0.16	0.16	1.59	0.00	0.27	0.01	0.28	0.00	0.01	0.01	0.00	226.69	226.69	0.01	0.00	226.98
Total	0.16	0.16	1.59	0.00	0.27	0.01	0.28	0.00	0.01	0.01	0.00	226.69	226.69	0.01	0.00	226.98

3.7 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	97.44					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	7.01	7.01	0.00	0.00	7.03
Total	97.45	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	7.01	7.01	0.00	0.00	7.03

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	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	0.16	0.16	1.59	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	226.69	226.69	0.01	0.00	226.98
Total	0.16	0.16	1.59	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	226.69	226.69	0.01	0.00	226.98

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures
- Provide BRT System
- Implement Trip Reduction Program
- Transit Subsidy
- Implement Employee Parking CashOut
- Employee Vanpool/Shuttle
- Provide Riade Sharing Program

	ROG	NOx	CO	SO2	Fugitive 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	12.65	23.42	95.59	0.35	32.26	1.54	33.80	0.56	1.35	1.91	0.00	23,741.96	23,741.96	0.75	0.00	23,757.61
Unmitigated	17.18	30.07	133.95	0.56	52.30	2.39	54.69	0.91	2.09	3.00	0.00	37,597.54	37,597.54	1.13	0.00	37,621.25
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
Apartments High Rise	17,043.60	29,055.28	24632.06	44,298,223	28,059,468
Apartments Mid Rise	3,725.40	6,350.92	5384.09	9,682,731	6,133,255
City Park	23.61	23.61	23.61	50,407	30,792
General Office Building	13,531.29	2,912.73	1204.42	24,503,023	14,968,089
Junior College (2Yr)	2,968.92	1,212.84	130.68	5,872,904	3,016,862
Parking Structure	0.00	0.00	0.00		
Strip Mall	17,338.74	16,975.33	8249.43	24,622,593	15,053,757
Total	54,631.56	56,530.71	39,624.29	109,029,882	67,262,222

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
Apartments High Rise	12.40	4.30	5.40	26.10	29.10	44.80
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80
City Park	9.50	7.30	7.30	33.00	48.00	19.00
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00
Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	11,333.15	11,333.15	0.51	0.19	11,404.17
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	11,741.71	11,741.71	0.53	0.20	11,815.28
NaturalGas Mitigated	0.39	3.42	1.99	0.02		0.00	0.27		0.00	0.27	0.00	3,875.30	3,875.30	0.07	0.07	3,898.88
NaturalGas Unmitigated	0.45	3.93	2.30	0.02		0.00	0.31		0.00	0.31	0.00	4,451.89	4,451.89	0.09	0.08	4,478.99
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					
Apartments High Rise	4.32209e+007	0.23	1.99	0.85	0.01		0.00	0.16		0.00	0.16	0.00	2,306.43	2,306.43	0.04	0.04	2,320.47
Apartments Mid Rise	9.44725e+006	0.05	0.44	0.19	0.00		0.00	0.04		0.00	0.04	0.00	504.14	504.14	0.01	0.01	507.21
City Park	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
General Office Building	2.49364e+007	0.13	1.22	1.03	0.01		0.00	0.09		0.00	0.09	0.00	1,330.70	1,330.70	0.03	0.02	1,338.80
Junior College (2Yr)	3.8826e+006	0.02	0.19	0.16	0.00		0.00	0.01		0.00	0.01	0.00	207.19	207.19	0.00	0.00	208.45
Parking Structure	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
Strip Mall	1.93819e+006	0.01	0.10	0.08	0.00		0.00	0.01		0.00	0.01	0.00	103.43	103.43	0.00	0.00	104.06
Total		0.44	3.94	2.31	0.02		0.00	0.31		0.00	0.31	0.00	4,451.89	4,451.89	0.08	0.07	4,478.99

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
Apartments High Rise	3.79426e+007	0.20	1.75	0.74	0.01		0.00	0.14		0.00	0.14	0.00	2,024.76	2,024.76	0.04	0.04	2,037.09
Apartments Mid Rise	8.29352e+006	0.04	0.38	0.16	0.00		0.00	0.03		0.00	0.03	0.00	442.57	442.57	0.01	0.01	445.27
City Park	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
General Office Building	2.13821e+007	0.12	1.05	0.88	0.01		0.00	0.08		0.00	0.08	0.00	1,141.03	1,141.03	0.02	0.02	1,147.98
Junior College (2Yr)	3.3122e+006	0.02	0.16	0.14	0.00		0.00	0.01		0.00	0.01	0.00	176.75	176.75	0.00	0.00	177.83
Parking Structure	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
Strip Mall	1.68986e+006	0.01	0.08	0.07	0.00		0.00	0.01		0.00	0.01	0.00	90.18	90.18	0.00	0.00	90.73
Total		0.39	3.42	1.99	0.02		0.00	0.27		0.00	0.27	0.00	3,875.29	3,875.29	0.07	0.07	3,898.90

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			
Apartments High Rise	1.42508e+007					4,145.71	0.19	0.07	4,171.69
Apartments Mid Rise	3.11494e+006					906.17	0.04	0.02	911.85
City Park	0					0.00	0.00	0.00	0.00
General Office Building	1.70585e+007					4,962.52	0.22	0.09	4,993.62
Junior College (2Yr)	1.24956e+006					363.51	0.02	0.01	365.79
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	4.688e+006					1,363.79	0.06	0.02	1,372.34
Total						11,741.70	0.53	0.21	11,815.29

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments High Rise	1.40597e+007					4,090.12	0.18	0.07	4,115.75
Apartments Mid Rise	3.07317e+006					894.02	0.04	0.02	899.62
City Park	0					0.00	0.00	0.00	0.00
General Office Building	1.61349e+007					4,693.84	0.21	0.08	4,723.25
Junior College (2Yr)	1.16759e+006					339.66	0.02	0.01	341.79
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	4.52204e+006					1,315.51	0.06	0.02	1,323.76
Total						11,333.15	0.51	0.20	11,404.17

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	31.21	0.43	36.99	0.00		0.00	0.27		0.00	0.27	0.00	992.75	992.75	0.08	0.02	999.63
Unmitigated	66.88	0.90	77.93	0.03		0.00	6.08		0.00	6.08	587.58	446.35	1,033.93	0.99	0.04	1,067.63
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	9.74					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	26.11					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	29.92	0.48	40.95	0.03		0.00	5.87		0.00	5.87	587.58	385.69	973.27	0.94	0.04	1,005.76
Landscaping	1.11	0.43	36.98	0.00		0.00	0.21		0.00	0.21	0.00	60.66	60.66	0.06	0.00	61.87
Total	66.88	0.91	77.93	0.03		0.00	6.08		0.00	6.08	587.58	446.35	1,033.93	1.00	0.04	1,067.63

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	3.90					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	26.11					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.09	0.00	0.01	0.00		0.00	0.07		0.00	0.06	0.00	932.09	932.09	0.02	0.02	937.76
Landscaping	1.11	0.43	36.98	0.00		0.00	0.21		0.00	0.21	0.00	60.66	60.66	0.06	0.00	61.87
Total	31.21	0.43	36.99	0.00		0.00	0.28		0.00	0.27	0.00	992.75	992.75	0.08	0.02	999.63

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					1,208.82	0.61	0.37	1,335.69
Unmitigated					1,413.97	0.76	0.46	1,571.94
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			
Apartments High Rise	264.395 / 166.684					640.68	0.35	0.21	713.16
Apartments Mid Rise	57.7916 / 36.4338					140.04	0.08	0.05	155.88
City Park	0 / 17.6935					18.02	0.00	0.00	18.13
General Office Building	218.435 / 133.879					525.41	0.29	0.17	585.27
Junior College (2Yr)	5.2973 / 8.28551					17.87	0.01	0.00	19.36
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	29.9097 / 18.3318					71.94	0.04	0.02	80.14
Total						1,413.96	0.77	0.45	1,571.94

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			
Apartments High Rise	211.516 / 166.684					546.49	0.28	0.17	604.69
Apartments Mid Rise	46.2333 / 36.4338					119.45	0.06	0.04	132.17
City Park	0 / 17.6935					18.02	0.00	0.00	18.13
General Office Building	174.748 / 133.879					447.59	0.23	0.14	495.65
Junior College (2Yr)	4.23784 / 8.28551					15.99	0.01	0.00	17.18
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Strip Mall	23.9278 / 18.3318					61.29	0.03	0.02	67.87
Total						1,208.83	0.61	0.37	1,335.69

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					283.00	16.72	0.00	634.23
Unmitigated					808.58	47.79	0.00	1,812.08
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			
Apartments High Rise	1866.68					378.92	22.39	0.00	849.18
Apartments Mid Rise	408.02					82.82	4.89	0.00	185.61
City Park	1.28					0.26	0.02	0.00	0.58
General Office Building	1142.97					232.01	13.71	0.00	519.96
Junior College (2Yr)	140.4					28.50	1.68	0.00	63.87
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	423.98					86.06	5.09	0.00	192.88
Total						808.57	47.78	0.00	1,812.08

8.2 Waste by Land Use

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments High Rise	653.338					132.62	7.84	0.00	297.21
Apartments Mid Rise	142.807					28.99	1.71	0.00	64.97
City Park	0.448					0.09	0.01	0.00	0.20
General Office Building	400.039					81.20	4.80	0.00	181.98
Junior College (2Yr)	49.14					9.97	0.59	0.00	22.35
Parking Structure	0					0.00	0.00	0.00	0.00
Strip Mall	148.393					30.12	1.78	0.00	67.51
Total						282.99	16.73	0.00	634.22

9.0 Vegetation

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					0.00	0.00	0.00	0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA

9.1 Net New Trees

Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons				MT			
Miscellaneous	0					0.00	0.00	0.00	0.00
Total						0.00	0.00	0.00	0.00

Draft Environmental Impact Report for Lake Merritt Station Area Plan
Appendix F: CalEEMod Emissions Estimate Detail

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