

**CITY OF LAKE ELSINORE GENERAL PLAN UPDATE
ANNOTATED RECIRCULATED DRAFT EIR**

SCH #2005121019

**APPENDIX F
AIR QUALITY ANALYSIS MODEL OUTPUTS**

PREPARED FOR:

**CITY OF LAKE ELSINORE
130 SOUTH MAIN STREET
LAKE ELSINORE, CA 92530**

AUGUST 2011

**CERTIFIED BY CITY COUNCIL: DECEMBER 13, 2011
(RESOLUTION No. 2011-070)**

Lake Elsinore General Plan Update - Buildout (2030)
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2839.33	1000sqft
Office Park	774.49	1000sqft
Office Park	5478.32	1000sqft
High School	9344.62	1000sqft
Industrial Park	10946.5	1000sqft
City Park	1353.4	Acre
Quality Restaurant	1091.1	1000sqft
Apartments Low Rise	32083	Dwelling Unit
Single Family Housing	64863	Dwelling Unit
Regional Shopping Center	14596.01	1000sqft
Strip Mall	119.75	1000sqft

1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.4

Utility Company Southern California Edison

Climate Zone 10

Precipitation Freq (Days) 28

1.3 User Entered Comments

Project Characteristics -

Land Use - GP population of 3.37 persons per dwelling unit was used. General Commercial and Neighborhood Commercial modeled as Regional Shopping Center; Gateway Commercial as Office Park; Tourist Commercial as Quality Restaurant; Commercial part of Commercial Mixed Use as General Office Building; Commercial part of Residential Mixed Use as Strip Mall; Business Professional as Office Park; Limited Industrial as Industrial Park; Public Institutional as High School; and Recreational as City Park.

Construction Phase - Analysis is programmatic. No construction is analyzed.

Off-road Equipment -

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					
2725	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
2768	2,209,506.02	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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					
2725	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
2768	2,209,506.02	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	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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Energy	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
Mobile	4,876.05	12,205.50	43,395.59	150.17	15,541.63	666.25	16,207.88	222.83	649.34	872.18		11,907,729.05		348.46		11,915,046.71
Total	19,991.20	13,703.61	84,006.68	234.02	15,541.63	666.25	21,453.67	222.83	649.34	6,116.81	684,121.91	14,847,191.02		3,093.02	63.50	15,615,952.59

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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Energy	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
Mobile	4,876.05	12,205.50	43,395.59	150.17	15,541.63	666.25	16,207.88	222.83	649.34	872.18		11,907,729.05		348.46		11,915,046.71
Total	19,991.20	13,703.61	84,006.68	234.02	15,541.63	666.25	21,453.67	222.83	649.34	6,116.81	684,121.91	14,847,191.02		3,093.02	63.50	15,615,952.59

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.6 Paving - 2725

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					
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	0.00					0.00	0.00		0.00	0.00						0.00

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					
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	0.00					0.00	0.00		0.00	0.00						0.00

3.7 Architectural Coating - 2768

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	2,209,506 .02					0.00	0.00		0.00	0.00						0.00
Total	2,209,506 .02					0.00	0.00		0.00	0.00						0.00

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	2,209,506 .02					0.00	0.00		0.00	0.00						0.00
Total	2,209,506 .02					0.00	0.00		0.00	0.00						0.00

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	4,876.05	12,205.50	43,395.59	150.17	15,541.63	666.25	16,207.88	222.83	649.34	872.18		11,907,729.05		348.46		11,915,046.71
Unmitigated	4,876.05	12,205.50	43,395.59	150.17	15,541.63	666.25	16,207.88	222.83	649.34	872.18		11,907,729.05		348.46		11,915,046.71
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 Low Rise	211,426.97	229,714.28	194,743.81	601,128,822	601,128,822
City Park	2,151.91	2,151.91	2151.91	4,594,002	4,594,002
General Office Building	31,261.02	6,729.21	2782.54	56,608,762	56,608,762
High School	120,452.15	40,835.99	16,726.87	246,789,243	246,789,243
Industrial Park	76,187.64	27,256.79	7,990.95	155,881,150	155,881,150
Office Park	8,844.68	1,270.16	588.61	16,499,040	16,499,040
Office Park	62,562.41	8,984.44	4,163.52	116,705,214	116,705,214
Quality Restaurant	98,144.45	102,956.20	78,733.78	113,941,861	113,941,861
Regional Shopping Center	626,752.67	729,362.62	368,403.29	1,059,880,096	1,059,880,096
Single Family Housing	620,738.91	653,819.04	568,848.51	1,755,341,082	1,755,341,082
Strip Mall	5,307.32	5,034.29	2,446.49	7,483,985	7,483,985
Total	1,863,830.13	1,808,114.93	1,247,580.28	4,134,853,257	4,134,853,257

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60
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
High School	9.50	7.30	7.30	77.80	17.20	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00

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	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
NaturalGas Unmitigated	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
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					
Apartments Low Rise	1.47996e+006	15.96	136.39	58.04	0.87		0.00	11.03		0.00	11.03		174,112.50		3.34	3.19	175,172.12
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
General Office Building	28393.3	0.31	2.78	2.34	0.02		0.00	0.21		0.00	0.21		3,340.39		0.06	0.06	3,360.72
High School	233743	2.52	22.92	19.25	0.14		0.00	1.74		0.00	1.74		27,499.23		0.53	0.50	27,666.58
Industrial Park	109465	1.18	10.73	9.01	0.06		0.00	0.82		0.00	0.82		12,878.24		0.25	0.24	12,956.61
Office Park	46078	0.50	4.52	3.79	0.03		0.00	0.34		0.00	0.34		5,420.94		0.10	0.10	5,453.93
Office Park	6514.22	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05		766.38		0.01	0.01	771.04
Quality Restaurant	829566	8.95	81.33	68.32	0.49		0.00	6.18		0.00	6.18		97,596.00		1.87	1.79	98,189.95
Regional Shopping Center	92774.7	1.00	9.10	7.64	0.05		0.00	0.69		0.00	0.69		10,914.67		0.21	0.20	10,981.09
Single Family Housing	7.20153e+006	77.66	663.67	282.41	4.24		0.00	53.66		0.00	53.66		847,239.36		16.24	15.53	852,395.51
Strip Mall	761.135	0.01	0.07	0.06	0.00		0.00	0.01		0.00	0.01		89.55		0.00	0.00	90.09
Total		108.16	932.15	451.40	5.90		0.00	74.73		0.00	74.73		1,179,857.26		22.61	21.62	1,187,037.64

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	lb/day										lb/day					
Apartments Low Rise	1479.96	15.96	136.39	58.04	0.87		0.00	11.03		0.00	11.03		174,112.50		3.34	3.19	175,172.12
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
General Office Building	28.3933	0.31	2.78	2.34	0.02		0.00	0.21		0.00	0.21		3,340.39		0.06	0.06	3,360.72
High School	233.743	2.52	22.92	19.25	0.14		0.00	1.74		0.00	1.74		27,499.23		0.53	0.50	27,666.58
Industrial Park	109.465	1.18	10.73	9.01	0.06		0.00	0.82		0.00	0.82		12,878.24		0.25	0.24	12,956.61
Office Park	46.078	0.50	4.52	3.79	0.03		0.00	0.34		0.00	0.34		5,420.94		0.10	0.10	5,453.93
Office Park	6.51422	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05		766.38		0.01	0.01	771.04
Quality Restaurant	829.566	8.95	81.33	68.32	0.49		0.00	6.18		0.00	6.18		97,596.00		1.87	1.79	98,189.95
Regional Shopping Center	92.7747	1.00	9.10	7.64	0.05		0.00	0.69		0.00	0.69		10,914.67		0.21	0.20	10,981.09
Single Family Housing	7201.53	77.66	663.67	282.41	4.24		0.00	53.66		0.00	53.66		847,239.36		16.24	15.53	852,395.51
Strip Mall	0.761135	0.01	0.07	0.06	0.00		0.00	0.01		0.00	0.01		89.55		0.00	0.00	90.09
Total		108.16	932.15	451.40	5.90		0.00	74.73		0.00	74.73		1,179,857.26		22.61	21.62	1,187,037.64

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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Unmitigated	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
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	605.34					0.00	0.00		0.00	0.00						0.00
Consumer Products	3,841.73					0.00	0.00		0.00	0.00						0.00
Hearth	10,318.75	473.27	32,089.96	77.53		0.00	5,126.39		0.00	5,125.22	684,121.91	1,745,028.00		2,708.09	41.87	2,499,000.32
Landscaping	241.18	92.69	8,069.74	0.43		0.00	44.68		0.00	44.68		14,576.73		13.87		14,867.91
Total	15,007.00	565.96	40,159.70	77.96		0.00	5,171.07		0.00	5,169.90	684,121.91	1,759,604.73		2,721.96	41.87	2,513,868.23

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	lb/day										lb/day					
Architectural Coating	605.34					0.00	0.00		0.00	0.00						0.00
Consumer Products	3,841.73					0.00	0.00		0.00	0.00						0.00
Hearth	10,318.75	473.27	32,089.96	77.53		0.00	5,126.39		0.00	5,125.22	684,121.91	1,745,028.00		2,708.09	41.87	2,499,000.32
Landscaping	241.18	92.69	8,069.74	0.43		0.00	44.68		0.00	44.68		14,576.73		13.87		14,867.91
Total	15,007.00	565.96	40,159.70	77.96		0.00	5,171.07		0.00	5,169.90	684,121.91	1,759,604.73		2,721.96	41.87	2,513,868.23

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Lake Elsinore General Plan Update - Buildout (2030)
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2839.33	1000sqft
Office Park	774.49	1000sqft
Office Park	5478.32	1000sqft
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Industrial Park	10946.5	1000sqft
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Apartments Low Rise	32083	Dwelling Unit
Single Family Housing	64863	Dwelling Unit
Regional Shopping Center	14596.01	1000sqft
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1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.4

Utility Company Southern California Edison

Climate Zone 10

Precipitation Freq (Days) 28

1.3 User Entered Comments

Project Characteristics -

Land Use - GP population of 3.37 persons per dwelling unit was used. General Commercial and Neighborhood Commercial modeled as Regional Shopping Center; Gateway Commercial as Office Park; Tourist Commercial as Quality Restaurant; Commercial part of Commercial Mixed Use as General Office Building; Commercial part of Residential Mixed Use as Strip Mall; Business Professional as Office Park; Limited Industrial as Industrial Park; Public Institutional as High School; and Recreational as City Park.

Construction Phase - Analysis is programmatic. No construction is analyzed.

Off-road Equipment -

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					
2725	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
2768	2,209,506.02	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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					
2725	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
2768	2,209,506.02	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	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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Energy	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
Mobile	4,812.74	12,199.10	41,047.37	136.18	15,541.63	669.67	16,211.30	222.83	652.76	875.59		10,886,184.14		340.59		10,893,336.60
Total	19,927.89	13,697.21	81,658.46	220.03	15,541.63	669.67	21,457.09	222.83	652.76	6,120.22	684,121.91	13,825,646.11		3,085.15	63.50	14,594,242.48

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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Energy	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
Mobile	4,812.74	12,199.10	41,047.37	136.18	15,541.63	669.67	16,211.30	222.83	652.76	875.59		10,886,184.14		340.59		10,893,336.60
Total	19,927.89	13,697.21	81,658.46	220.03	15,541.63	669.67	21,457.09	222.83	652.76	6,120.22	684,121.91	13,825,646.11		3,085.15	63.50	14,594,242.48

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.6 Paving - 2725

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					
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	0.00					0.00	0.00		0.00	0.00						0.00

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					
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	0.00					0.00	0.00		0.00	0.00						0.00

3.7 Architectural Coating - 2768

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	2,209,506.02					0.00	0.00		0.00	0.00						0.00
Total	2,209,506.02					0.00	0.00		0.00	0.00						0.00

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	2,209,506.02					0.00	0.00		0.00	0.00						0.00
Total	2,209,506.02					0.00	0.00		0.00	0.00						0.00

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	4,812.74	12,199.10	41,047.37	136.18	15,541.63	669.67	16,211.30	222.83	652.76	875.59		10,886,184.14		340.59		10,893,336.60
Unmitigated	4,812.74	12,199.10	41,047.37	136.18	15,541.63	669.67	16,211.30	222.83	652.76	875.59		10,886,184.14		340.59		10,893,336.60
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 Low Rise	211,426.97	229,714.28	194,743.81	601,128,822	601,128,822
City Park	2,151.91	2,151.91	2151.91	4,594,002	4,594,002
General Office Building	31,261.02	6,729.21	2782.54	56,608,762	56,608,762
High School	120,452.15	40,835.99	16,726.87	246,789,243	246,789,243
Industrial Park	76,187.64	27,256.79	7,990.95	155,881,150	155,881,150
Office Park	8,844.68	1,270.16	588.61	16,499,040	16,499,040
Office Park	62,562.41	8,984.44	4163.52	116,705,214	116,705,214
Quality Restaurant	98,144.45	102,956.20	78,733.78	113,941,861	113,941,861
Regional Shopping Center	626,752.67	729,362.62	368,403.29	1,059,880,096	1,059,880,096
Single Family Housing	620,738.91	653,819.04	568,848.51	1,755,341,082	1,755,341,082
Strip Mall	5,307.32	5,034.29	2,446.49	7,483,985	7,483,985
Total	1,863,830.13	1,808,114.93	1,247,580.28	4,134,853,257	4,134,853,257

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60
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
High School	9.50	7.30	7.30	77.80	17.20	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00

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	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
NaturalGas Unmitigated	108.15	932.15	451.40	5.90		0.00	74.72		0.00	74.72		1,179,857.24		22.61	21.63	1,187,037.65
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					
Apartments Low Rise	1.47996e+006	15.96	136.39	58.04	0.87		0.00	11.03		0.00	11.03		174,112.50		3.34	3.19	175,172.12
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
General Office Building	28393.3	0.31	2.78	2.34	0.02		0.00	0.21		0.00	0.21		3,340.39		0.06	0.06	3,360.72
High School	233743	2.52	22.92	19.25	0.14		0.00	1.74		0.00	1.74		27,499.23		0.53	0.50	27,666.58
Industrial Park	109465	1.18	10.73	9.01	0.06		0.00	0.82		0.00	0.82		12,878.24		0.25	0.24	12,956.61
Office Park	46078	0.50	4.52	3.79	0.03		0.00	0.34		0.00	0.34		5,420.94		0.10	0.10	5,453.93
Office Park	6514.22	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05		766.38		0.01	0.01	771.04
Quality Restaurant	829566	8.95	81.33	68.32	0.49		0.00	6.18		0.00	6.18		97,596.00		1.87	1.79	98,189.95
Regional Shopping Center	92774.7	1.00	9.10	7.64	0.05		0.00	0.69		0.00	0.69		10,914.67		0.21	0.20	10,981.09
Single Family Housing	7.20153e+006	77.66	663.67	282.41	4.24		0.00	53.66		0.00	53.66		847,239.36		16.24	15.53	852,395.51
Strip Mall	761.135	0.01	0.07	0.06	0.00		0.00	0.01		0.00	0.01		89.55		0.00	0.00	90.09
Total		108.16	932.15	451.40	5.90		0.00	74.73		0.00	74.73		1,179,857.26		22.61	21.62	1,187,037.64

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	lb/day										lb/day					
Apartments Low Rise	1479.96	15.96	136.39	58.04	0.87		0.00	11.03		0.00	11.03		174,112.50		3.34	3.19	175,172.12
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
General Office Building	28.3933	0.31	2.78	2.34	0.02		0.00	0.21		0.00	0.21		3,340.39		0.06	0.06	3,360.72
High School	233.743	2.52	22.92	19.25	0.14		0.00	1.74		0.00	1.74		27,499.23		0.53	0.50	27,666.58
Industrial Park	109.465	1.18	10.73	9.01	0.06		0.00	0.82		0.00	0.82		12,878.24		0.25	0.24	12,956.61
Office Park	46.078	0.50	4.52	3.79	0.03		0.00	0.34		0.00	0.34		5,420.94		0.10	0.10	5,453.93
Office Park	6.51422	0.07	0.64	0.54	0.00		0.00	0.05		0.00	0.05		766.38		0.01	0.01	771.04
Quality Restaurant	829.566	8.95	81.33	68.32	0.49		0.00	6.18		0.00	6.18		97,596.00		1.87	1.79	98,189.95
Regional Shopping Center	92.7747	1.00	9.10	7.64	0.05		0.00	0.69		0.00	0.69		10,914.67		0.21	0.20	10,981.09
Single Family Housing	7201.53	77.66	663.67	282.41	4.24		0.00	53.66		0.00	53.66		847,239.36		16.24	15.53	852,395.51
Strip Mall	0.761135	0.01	0.07	0.06	0.00		0.00	0.01		0.00	0.01		89.55		0.00	0.00	90.09
Total		108.16	932.15	451.40	5.90		0.00	74.73		0.00	74.73		1,179,857.26		22.61	21.62	1,187,037.64

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	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
Unmitigated	15,007.00	565.96	40,159.69	77.95		0.00	5,171.07		0.00	5,169.91	684,121.91	1,759,604.73		2,721.95	41.87	2,513,868.23
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	605.34					0.00	0.00		0.00	0.00						0.00
Consumer Products	3,841.73					0.00	0.00		0.00	0.00						0.00
Hearth	10,318.75	473.27	32,089.96	77.53		0.00	5,126.39		0.00	5,125.22	684,121.91	1,745,028.00		2,708.09	41.87	2,499,000.32
Landscaping	241.18	92.69	8,069.74	0.43		0.00	44.68		0.00	44.68		14,576.73		13.87		14,867.91
Total	15,007.00	565.96	40,159.70	77.96		0.00	5,171.07		0.00	5,169.90	684,121.91	1,759,604.73		2,721.96	41.87	2,513,868.23

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	lb/day										lb/day					
Architectural Coating	605.34					0.00	0.00		0.00	0.00						0.00
Consumer Products	3,841.73					0.00	0.00		0.00	0.00						0.00
Hearth	10,318.75	473.27	32,089.96	77.53		0.00	5,126.39		0.00	5,125.22	684,121.91	1,745,028.00		2,708.09	41.87	2,499,000.32
Landscaping	241.18	92.69	8,069.74	0.43		0.00	44.68		0.00	44.68		14,576.73		13.87		14,867.91
Total	15,007.00	565.96	40,159.70	77.96		0.00	5,171.07		0.00	5,169.90	684,121.91	1,759,604.73		2,721.96	41.87	2,513,868.23

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Lake Elsinore General Plan Update - Buildout (2030)
Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	2839.33	1000sqft
Office Park	774.49	1000sqft
Office Park	5478.32	1000sqft
High School	9344.62	1000sqft
Industrial Park	10946.5	1000sqft
City Park	1353.4	Acre
Quality Restaurant	1091.1	1000sqft
Apartments Low Rise	32083	Dwelling Unit
Single Family Housing	64863	Dwelling Unit
Regional Shopping Center	14596.01	1000sqft
Strip Mall	119.75	1000sqft

1.2 Other Project Characteristics

Urbanization Urban

Wind Speed (m/s) 2.4

Utility Company Southern California Edison

Climate Zone 10

Precipitation Freq (Days) 28

1.3 User Entered Comments

Project Characteristics -

Land Use - GP population of 3.37 persons per dwelling unit was used. General Commercial and Neighborhood Commercial modeled as Regional Shopping Center; Gateway Commercial as Office Park; Tourist Commercial as Quality Restaurant; Commercial part of Commercial Mixed Use as General Office Building; Commercial part of Residential Mixed Use as Strip Mall; Business Professional as Office Park; Limited Industrial as Industrial Park; Public Institutional as High School; and Recreational as City Park.

Construction Phase - Analysis is programmatic. No construction is analyzed.

Off-road Equipment -

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					
2725	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2768	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					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2725	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2768	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					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1,177.12	24.96	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.27	72,073.78	33.76	1.42	73,224.38
Energy	19.74	170.12	82.38	1.08		0.00	13.64		0.00	13.64	0.00	544,428.02	544,428.02	19.53	9.57	547,804.68
Mobile	732.78	1,932.49	6,670.88	22.50	2,271.37	107.05	2,378.42	35.73	104.34	140.07	0.00	1,630,717.17	1,630,717.17	49.83	0.00	1,631,763.62
Waste						0.00	0.00		0.00	0.00	56,080.86	0.00	56,080.86	3,314.28	0.00	125,680.81
Water						0.00	0.00		0.00	0.00	0.00	267,250.93	267,250.93	1,949.97	52.63	324,516.18
Total	1,929.64	2,127.57	8,834.01	24.63	2,271.37	107.05	2,495.54	35.73	104.34	257.15	66,378.37	2,504,172.39	2,570,550.76	5,367.37	63.62	2,702,989.67

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	1,177.12	24.96	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.27	72,073.78	33.76	1.42	73,224.38
Energy	19.74	170.12	82.38	1.08		0.00	13.64		0.00	13.64	0.00	544,428.02	544,428.02	19.53	9.57	547,804.68
Mobile	732.78	1,932.49	6,670.88	22.50	2,271.37	107.05	2,378.42	35.73	104.34	140.07	0.00	1,630,717.17	1,630,717.17	49.83	0.00	1,631,763.62
Waste						0.00	0.00		0.00	0.00	28,040.43	0.00	28,040.43	1,657.14	0.00	62,840.41
Water						0.00	0.00		0.00	0.00	0.00	267,250.93	267,250.93	1,949.97	52.63	324,516.18
Total	1,929.64	2,127.57	8,834.01	24.63	2,271.37	107.05	2,495.54	35.73	104.34	257.15	38,337.94	2,504,172.39	2,542,510.33	3,710.23	63.62	2,640,149.27

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.6 Paving - 2725

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					
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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					
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7 Architectural Coating - 2768

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	732.78	1,932.49	6,670.88	22.50	2,271.37	107.05	2,378.42	35.73	104.34	140.07	0.00	1,630,717.17	1,630,717.17	49.83	0.00	1,631,763.62
Unmitigated	732.78	1,932.49	6,670.88	22.50	2,271.37	107.05	2,378.42	35.73	104.34	140.07	0.00	1,630,717.17	1,630,717.17	49.83	0.00	1,631,763.62
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 Low Rise	211,426.97	229,714.28	194,743.81	601,128,822	601,128,822
City Park	2,151.91	2,151.91	2151.91	4,594,002	4,594,002
General Office Building	31,261.02	6,729.21	2782.54	56,608,762	56,608,762
High School	120,452.15	40,835.99	16,726.87	246,789,243	246,789,243
Industrial Park	76,187.64	27,256.79	7,990.95	155,881,150	155,881,150
Office Park	8,844.68	1,270.16	588.61	16,499,040	16,499,040
Office Park	62,562.41	8,984.44	4,163.52	116,705,214	116,705,214
Quality Restaurant	98,144.45	102,956.20	78,733.78	113,941,861	113,941,861
Regional Shopping Center	626,752.67	729,362.62	368,403.29	1,059,880,096	1,059,880,096
Single Family Housing	620,738.91	653,819.04	568,848.51	1,755,341,082	1,755,341,082
Strip Mall	5,307.32	5,034.29	2,446.49	7,483,985	7,483,985
Total	1,863,830.13	1,808,114.93	1,247,580.28	4,134,853,257	4,134,853,257

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 Low Rise	10.80	7.30	7.50	40.20	19.20	40.60
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
High School	9.50	7.30	7.30	77.80	17.20	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Office Park	9.50	7.30	7.30	33.00	48.00	19.00
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00
Single Family Housing	10.80	7.30	7.50	40.20	19.20	40.60
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00

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	349,089.42	349,089.42	15.79	5.99	351,277.28
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	349,089.42	349,089.42	15.79	5.99	351,277.28
NaturalGas Mitigated	19.74	170.12	82.38	1.08		0.00	13.64		0.00	13.64	0.00	195,338.60	195,338.60	3.74	3.58	196,527.40
NaturalGas Unmitigated	19.74	170.12	82.38	1.08		0.00	13.64		0.00	13.64	0.00	195,338.60	195,338.60	3.74	3.58	196,527.40
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 Low Rise	5.40184e+008	2.91	24.89	10.59	0.16		0.00	2.01		0.00	2.01	0.00	28,826.28	28,826.28	0.55	0.53	29,001.71
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	1.03636e+007	0.06	0.51	0.43	0.00		0.00	0.04		0.00	0.04	0.00	553.04	553.04	0.01	0.01	556.40
High School	8.53164e+007	0.46	4.18	3.51	0.03		0.00	0.32		0.00	0.32	0.00	4,552.81	4,552.81	0.09	0.08	4,580.51
Industrial Park	3.99547e+007	0.22	1.96	1.65	0.01		0.00	0.15		0.00	0.15	0.00	2,132.14	2,132.14	0.04	0.04	2,145.11
Office Park	1.68185e+007	0.09	0.82	0.69	0.00		0.00	0.06		0.00	0.06	0.00	897.50	897.50	0.02	0.02	902.96
Office Park	2.37769e+006	0.01	0.12	0.10	0.00		0.00	0.01		0.00	0.01	0.00	126.88	126.88	0.00	0.00	127.65
Quality Restaurant	3.02792e+008	1.63	14.84	12.47	0.09		0.00	1.13		0.00	1.13	0.00	16,158.11	16,158.11	0.31	0.30	16,256.45
Regional Shopping Center	3.38628e+007	0.18	1.66	1.39	0.01		0.00	0.13		0.00	0.13	0.00	1,807.05	1,807.05	0.03	0.03	1,818.04
Single Family Housing	2.62856e+009	14.17	121.12	51.54	0.77		0.00	9.79		0.00	9.79	0.00	140,269.98	140,269.98	2.69	2.57	141,123.64
Strip Mall	277814	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	14.83	14.83	0.00	0.00	14.92
Total		19.73	170.11	82.38	1.07		0.00	13.64		0.00	13.64	0.00	195,338.62	195,338.62	3.74	3.58	196,527.39

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 Low Rise	5.40184e+008	2.91	24.89	10.59	0.16		0.00	2.01		0.00	2.01	0.00	28,826.28	28,826.28	0.55	0.53	29,001.71
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	1.03636e+007	0.06	0.51	0.43	0.00		0.00	0.04		0.00	0.04	0.00	553.04	553.04	0.01	0.01	556.40
High School	8.53164e+007	0.46	4.18	3.51	0.03		0.00	0.32		0.00	0.32	0.00	4,552.81	4,552.81	0.09	0.08	4,580.51
Industrial Park	3.99547e+007	0.22	1.96	1.65	0.01		0.00	0.15		0.00	0.15	0.00	2,132.14	2,132.14	0.04	0.04	2,145.11
Office Park	1.68185e+007	0.09	0.82	0.69	0.00		0.00	0.06		0.00	0.06	0.00	897.50	897.50	0.02	0.02	902.96
Office Park	2.37769e+006	0.01	0.12	0.10	0.00		0.00	0.01		0.00	0.01	0.00	126.88	126.88	0.00	0.00	127.65
Quality Restaurant	3.02792e+008	1.63	14.84	12.47	0.09		0.00	1.13		0.00	1.13	0.00	16,158.11	16,158.11	0.31	0.30	16,256.45
Regional Shopping Center	3.38628e+007	0.18	1.66	1.39	0.01		0.00	0.13		0.00	0.13	0.00	1,807.05	1,807.05	0.03	0.03	1,818.04
Single Family Housing	2.62856e+009	14.17	121.12	51.54	0.77		0.00	9.79		0.00	9.79	0.00	140,269.98	140,269.98	2.69	2.57	141,123.64
Strip Mall	277814	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	14.83	14.83	0.00	0.00	14.92
Total		19.73	170.11	82.38	1.07		0.00	13.64		0.00	13.64	0.00	195,338.62	195,338.62	3.74	3.58	196,527.39

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 Low Rise	1.43497e+008					41,739.06	1.89	0.72	42,000.66
City Park	0					0.00	0.00	0.00	0.00
General Office Building	3.03525e+007					8,828.64	0.40	0.15	8,883.97
High School	8.49426e+007					24,707.30	1.12	0.42	24,862.15
Industrial Park	1.17018e+008					34,037.13	1.54	0.58	34,250.46
Office Park	6.10833e+007					17,767.34	0.80	0.30	17,878.69
Office Park	8.63559e+006					2,511.84	0.11	0.04	2,527.58
Quality Restaurant	5.71737e+007					16,630.16	0.75	0.29	16,734.38
Regional Shopping Center	2.28574e+008					66,485.35	3.01	1.14	66,902.03
Single Family Housing	4.67002e+008					135,837.15	6.14	2.33	136,688.49
Strip Mall	1.87525e+006					545.45	0.02	0.01	548.87
Total						349,089.42	15.78	5.98	351,277.28

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 Low Rise	1.43497e+008					41,739.06	1.89	0.72	42,000.66
City Park	0					0.00	0.00	0.00	0.00
General Office Building	3.03525e+007					8,828.64	0.40	0.15	8,883.97
High School	8.49426e+007					24,707.30	1.12	0.42	24,862.15
Industrial Park	1.17018e+008					34,037.13	1.54	0.58	34,250.46
Office Park	6.10833e+007					17,767.34	0.80	0.30	17,878.69
Office Park	8.63559e+006					2,511.84	0.11	0.04	2,527.58
Quality Restaurant	5.71737e+007					16,630.16	0.75	0.29	16,734.38
Regional Shopping Center	2.28574e+008					66,485.35	3.01	1.14	66,902.03
Single Family Housing	4.67002e+008					135,837.15	6.14	2.33	136,688.49
Strip Mall	1.87525e+006					545.45	0.02	0.01	548.87
Total						349,089.42	15.78	5.98	351,277.28

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	1,177.12	24.96	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.27	72,073.78	33.76	1.42	73,224.38
Unmitigated	1,177.12	24.96	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.27	72,073.78	33.76	1.42	73,224.38
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	110.48					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	701.11					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	321.54	8.06	609.33	0.97		0.00	95.33		0.00	95.29	10,297.51	59,364.85	69,662.37	31.47	1.42	70,764.78
Landscaping	43.99	16.91	1,471.42	0.08		0.00	8.15		0.00	8.15	0.00	2,411.41	2,411.41	2.29	0.00	2,459.59
Total	1,177.12	24.97	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.26	72,073.78	33.76	1.42	73,224.37

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	110.48					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	701.11					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	321.54	8.06	609.33	0.97		0.00	95.33		0.00	95.29	10,297.51	59,364.85	69,662.37	31.47	1.42	70,764.78
Landscaping	43.99	16.91	1,471.42	0.08		0.00	8.15		0.00	8.15	0.00	2,411.41	2,411.41	2.29	0.00	2,459.59
Total	1,177.12	24.97	2,080.75	1.05		0.00	103.48		0.00	103.44	10,297.51	61,776.26	72,073.78	33.76	1.42	73,224.37

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					267,250.93	1,949.97	52.63	324,516.18
Unmitigated					267,250.93	1,949.97	52.63	324,516.18
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 Low Rise	2090.34 / 1317.82					12,199.07	64.36	1.79	14,105.86
City Park	0 / 1612.55					5,211.08	0.24	0.09	5,243.74
General Office Building	504.645 / 309.298					2,916.49	15.54	0.43	3,376.64
High School	310.285 / 797.875					3,757.05	9.64	0.30	4,052.29
Industrial Park	53823.3 / 0					204,455.37	1,652.15	44.24	252,865.20
Office Park	1111.34 / 681.141					6,422.72	34.21	0.95	7,436.08
Quality Restaurant	331.186 / 21.1395					1,326.37	10.17	0.27	1,624.67
Regional Shopping Center	1081.16 / 662.648					6,248.34	33.28	0.93	7,234.19
Single Family Housing	4226.09 / 2664.27					24,663.17	130.11	3.62	28,518.17
Strip Mall	8.87018 / 5.43656					51.26	0.27	0.01	59.35
Total						267,250.92	1,949.97	52.63	324,516.19

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 Low Rise	2090.34 / 1317.82					12,199.07	64.36	1.79	14,105.86
City Park	0 / 1612.55					5,211.08	0.24	0.09	5,243.74
General Office Building	504.645 / 309.298					2,916.49	15.54	0.43	3,376.64
High School	310.285 / 797.875					3,757.05	9.64	0.30	4,052.29
Industrial Park	53823.3 / 0					204,455.37	1,652.15	44.24	252,865.20
Office Park	1111.34 / 681.141					6,422.72	34.21	0.95	7,436.08
Quality Restaurant	331.186 / 21.1395					1,326.37	10.17	0.27	1,624.67
Regional Shopping Center	1081.16 / 662.648					6,248.34	33.28	0.93	7,234.19
Single Family Housing	4226.09 / 2664.27					24,663.17	130.11	3.62	28,518.17
Strip Mall	8.87018 / 5.43656					51.26	0.27	0.01	59.35
Total						267,250.92	1,949.97	52.63	324,516.19

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					28,040.43	1,657.14	0.00	62,840.41
Unmitigated					56,080.86	3,314.28	0.00	125,680.81
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 Low Rise	14758.2					2,995.78	177.05	0.00	6,713.73
City Park	116.39					23.63	1.40	0.00	52.95
General Office Building	2640.58					536.01	31.68	0.00	1,201.24
High School	12148					2,465.94	145.73	0.00	5,526.32
Industrial Park	134726					27,348.19	1,616.23	0.00	61,289.06
Office Park	5815.11					1,180.41	69.76	0.00	2,645.39
Quality Restaurant	995.63					202.10	11.94	0.00	452.93
Regional Shopping Center	15325.8					3,111.00	183.85	0.00	6,971.95
Single Family Housing	89621.1					18,192.27	1,075.13	0.00	40,770.05
Strip Mall	125.74					25.52	1.51	0.00	57.20
Total						56,080.85	3,314.28	0.00	125,680.82

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 Low Rise	7379.09					1,497.89	88.52	0.00	3,356.86
City Park	58.195					11.81	0.70	0.00	26.47
General Office Building	1320.29					268.01	15.84	0.00	600.62
High School	6074.01					1,232.97	72.87	0.00	2,763.16
Industrial Park	67363.1					13,674.10	808.12	0.00	30,644.53
Office Park	2907.55					590.21	34.88	0.00	1,322.69
Quality Restaurant	497.815					101.05	5.97	0.00	226.46
Regional Shopping Center	7662.9					1,555.50	91.93	0.00	3,485.97
Single Family Housing	44810.5					9,096.13	537.57	0.00	20,385.02
Strip Mall	62.87					12.76	0.75	0.00	28.60
Total						28,040.43	1,657.15	0.00	62,840.38

9.0 Vegetation
