

APPENDIX B

AIR QUALITY AND GREENHOUSE GAS EMISSIONS MODEL OUTPUTS

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	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.37	12,662.56	3,579.94	16,242.50	16.86	0.87	16,865.46
Energy	5.97	51.69	26.56	0.33		0.00	4.13		0.00	4.13	0.00	181,788.35	181,788.35	5.69	2.81	182,779.54
Mobile	212.17	379.09	1,777.57	5.42	549.77	28.11	577.88	8.76	27.10	35.85	0.00	374,507.23	374,507.23	13.89	0.00	374,799.02
Waste						0.00	0.00		0.00	0.00	29,210.83	0.00	29,210.83	1,726.31	0.00	65,463.35
Water						0.00	0.00		0.00	0.00	0.00	232,520.88	232,520.88	1,461.39	39.30	275,392.06
Total	1,232.56	444.01	2,956.66	6.28	549.77	28.11	712.38	8.76	27.10	170.35	41,873.39	792,396.40	834,269.79	3,224.14	42.98	915,299.43

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	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.37	12,662.56	3,579.94	16,242.50	16.86	0.87	16,865.46
Energy	5.97	51.69	26.56	0.33		0.00	4.13		0.00	4.13	0.00	181,788.35	181,788.35	5.69	2.81	182,779.54
Mobile	212.17	379.09	1,777.57	5.42	549.77	28.11	577.88	8.76	27.10	35.85	0.00	374,507.23	374,507.23	13.89	0.00	374,799.02
Waste						0.00	0.00		0.00	0.00	29,210.83	0.00	29,210.83	1,726.31	0.00	65,463.35
Water						0.00	0.00		0.00	0.00	0.00	232,520.88	232,520.88	1,461.39	39.30	275,392.06

Total	1,232.56	444.01	2,956.66	6.28	549.77	28.11	712.38	8.76	27.10	170.35	41,873.39	792,396.40	834,269.79	3,224.14	42.98	915,299.43
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3.0 Construction Detail

3.1 Mitigation Measures Construction

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	212.17	379.09	1,777.57	5.42	549.77	28.11	577.88	8.76	27.10	35.85	0.00	374,507.23	374,507.23	13.89	0.00	374,799.02

Unmitigated	212.17	379.09	1,777.57	5.42	549.77	28.11	577.88	8.76	27.10	35.85	0.00	374,507.23	374,507.23	13.89	0.00	374,799.02
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	87,785.39	95,378.36	80858.47	250,925,601	250,925,601
City Park	2,238.72	2,238.72	2238.72	4,779,337	4,779,337
General Office Building	10,206.27	2,196.99	908.46	18,481,939	18,481,939
Government Office Building	21,161.51	0.00	0.00	25,921,043	25,921,043
Industrial Park	63,983.28	22,890.57	6710.89	130,910,831	130,910,831
Single Family Housing	165,694.98	174,525.12	151843.78	471,061,340	471,061,340
Strip Mall	102,024.64	96,776.08	47029.86	143,867,497	143,867,497
Total	453,094.79	394,005.84	289,590.18	1,045,947,588	1,045,947,588

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	41.60	18.80	39.60
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
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60
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	122,688.59	122,688.59	4.56	1.73	123,320.11
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	122,688.59	122,688.59	4.56	1.73	123,320.11
NaturalGas Mitigated	5.97	51.69	26.56	0.33		0.00	4.13		0.00	4.13	0.00	59,099.77	59,099.77	1.13	1.08	59,459.44
NaturalGas Unmitigated	5.97	51.69	26.56	0.33		0.00	4.13		0.00	4.13	0.00	59,099.77	59,099.77	1.13	1.08	59,459.44
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	2.22609e+008	1.20	10.26	4.36	0.07		0.00	0.83		0.00	0.83	0.00	11,879.25	11,879.25	0.23	0.22	11,951.55
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	1.94948e+007	0.11	0.96	0.80	0.01		0.00	0.07		0.00	0.07	0.00	1,040.32	1,040.32	0.02	0.02	1,046.65
Government Office Building	6.45621e+006	0.03	0.32	0.27	0.00		0.00	0.02		0.00	0.02	0.00	344.53	344.53	0.01	0.01	346.62
Industrial Park	1.93329e+008	1.04	9.48	7.96	0.06		0.00	0.72		0.00	0.72	0.00	10,316.76	10,316.76	0.20	0.19	10,379.55
Single Family Housing	6.60328e+008	3.56	30.43	12.95	0.19		0.00	2.46		0.00	2.46	0.00	35,237.59	35,237.59	0.68	0.65	35,452.04
Strip Mall	5.27158e+006	0.03	0.26	0.22	0.00		0.00	0.02		0.00	0.02	0.00	281.31	281.31	0.01	0.01	283.02
Total		5.97	51.71	26.56	0.33		0.00	4.12		0.00	4.12	0.00	59,099.76	59,099.76	1.15	1.10	59,459.43

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	2.22609e+008	1.20	10.26	4.36	0.07		0.00	0.83		0.00	0.83	0.00	11,879.25	11,879.25	0.23	0.22	11,951.55
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	1.94948e+007	0.11	0.96	0.80	0.01		0.00	0.07		0.00	0.07	0.00	1,040.32	1,040.32	0.02	0.02	1,046.65
Government Office Building	6.45621e+006	0.03	0.32	0.27	0.00		0.00	0.02		0.00	0.02	0.00	344.53	344.53	0.01	0.01	346.62

Industrial Park	1.93329e+008	1.04	9.48	7.96	0.06	0.00	0.72	0.00	0.72	0.00	10,316.76	10,316.76	0.20	0.19	10,379.55
Single Family Housing	6.60328e+008	3.56	30.43	12.95	0.19	0.00	2.46	0.00	2.46	0.00	35,237.59	35,237.59	0.68	0.65	35,452.04
Strip Mall	5.27158e+006	0.03	0.26	0.22	0.00	0.00	0.02	0.00	0.02	0.00	281.31	281.31	0.01	0.01	283.02
Total		5.97	51.71	26.56	0.33	0.00	4.12	0.00	4.12	0.00	59,099.76	59,099.76	1.15	1.10	59,459.43

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	4.67921e+007					16,571.92	0.62	0.23	16,657.23
City Park	0					0.00	0.00	0.00	0.00
General Office Building	1.38957e+007					4,921.32	0.18	0.07	4,946.65
Government Office Building	4.60193e+006					1,629.82	0.06	0.02	1,638.21
Industrial Park	1.37803e+008					48,804.39	1.81	0.69	49,055.60
Single Family Housing	1.11008e+008					39,314.64	1.46	0.55	39,517.01
Strip Mall	3.23201e+007					11,446.49	0.43	0.16	11,505.41
Total						122,688.58	4.56	1.72	123,320.11

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	4.67921e+007					16,571.92	0.62	0.23	16,657.23
City Park	0					0.00	0.00	0.00	0.00
General Office Building	1.38957e+007					4,921.32	0.18	0.07	4,946.65
Government Office Building	4.60193e+006					1,629.82	0.06	0.02	1,638.21
Industrial Park	1.37803e+008					48,804.39	1.81	0.69	49,055.60
Single Family Housing	1.11008e+008					39,314.64	1.46	0.55	39,517.01
Strip Mall	3.23201e+007					11,446.49	0.43	0.16	11,505.41
Total						122,688.58	4.56	1.72	123,320.11

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	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.37	12,662.56	3,579.94	16,242.50	16.86	0.87	16,865.46
Unmitigated	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.37	12,662.56	3,579.94	16,242.50	16.86	0.87	16,865.46
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	84.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	223.45					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	698.25	10.34	910.63	0.52		0.00	129.15		0.00	129.14	12,662.56	3,204.16	15,866.72	16.42	0.87	16,480.42
Landscaping	8.45	2.89	241.90	0.01		0.00	1.22		0.00	1.22	0.00	375.79	375.79	0.44	0.00	385.04
Total	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.36	12,662.56	3,579.95	16,242.51	16.86	0.87	16,865.46

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	84.27					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Consumer Products	223.45					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	698.25	10.34	910.63	0.52		0.00	129.15		0.00	129.14	12,662.56	3,204.16	15,866.72	16.42	0.87	16,480.42
Landscaping	8.45	2.89	241.90	0.01		0.00	1.22		0.00	1.22	0.00	375.79	375.79	0.44	0.00	385.04
Total	1,014.42	13.23	1,152.53	0.53		0.00	130.37		0.00	130.36	12,662.56	3,579.95	16,242.51	16.86	0.87	16,865.46

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					232,520.88	1,461.39	39.30	275,392.06
Unmitigated					232,520.88	1,461.39	39.30	275,392.06
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	867.917 / 547.165					6,165.09	26.72	0.74	6,956.80
City Park	0 / 1677.61					6,600.91	0.25	0.09	6,634.89
General Office Building	164.759 / 100.981					1,158.97	5.07	0.14	1,309.21
Government Office Building	60.9885 / 37.3801					429.01	1.88	0.05	484.63
Industrial Park	45201.4 / 0					208,954.34	1,387.49	37.15	249,609.48
Single Family Housing	1128.08 / 711.179					8,013.09	34.73	0.97	9,042.11
Strip Mall	170.515 / 104.509					1,199.46	5.25	0.15	1,354.94

Total						232,520.87	1,461.39	39.29	275,392.06
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Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	867.917 / 547.165					6,165.09	26.72	0.74	6,956.80
City Park	0 / 1677.61					6,600.91	0.25	0.09	6,634.89
General Office Building	164.759 / 100.981					1,158.97	5.07	0.14	1,309.21
Government Office Building	60.9885 / 37.3801					429.01	1.88	0.05	484.63
Industrial Park	45201.4 / 0					208,954.34	1,387.49	37.15	249,609.48
Single Family Housing	1128.08 / 711.179					8,013.09	34.73	0.97	9,042.11
Strip Mall	170.515 / 104.509					1,199.46	5.25	0.15	1,354.94
Total						232,520.87	1,461.39	39.29	275,392.06

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					29,210.83	1,726.31	0.00	65,463.35
Unmitigated					29,210.83	1,726.31	0.00	65,463.35
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	6127.66					1,243.86	73.51	0.00	2,787.57
City Park	121.09					24.58	1.45	0.00	55.09
General Office Building	862.11					175.00	10.34	0.00	392.19
Government Office Building	285.51					57.96	3.43	0.00	129.88
Industrial Park	113145					22,967.34	1,357.33	0.00	51,471.28
Single Family Housing	20944					4,251.45	251.25	0.00	9,527.77
Strip Mall	2417.1					490.65	29.00	0.00	1,099.58
Total						29,210.84	1,726.31	0.00	65,463.36

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr			MT/yr				
Apartments Low Rise	6127.66					1,243.86	73.51	0.00	2,787.57
City Park	121.09					24.58	1.45	0.00	55.09
General Office Building	862.11					175.00	10.34	0.00	392.19
Government Office Building	285.51					57.96	3.43	0.00	129.88
Industrial Park	113145					22,967.34	1,357.33	0.00	51,471.28
Single Family Housing	20944					4,251.45	251.25	0.00	9,527.77
Strip Mall	2417.1					490.65	29.00	0.00	1,099.58
Total						29,210.84	1,726.31	0.00	65,463.36

9.0 Vegetation

**San Marcos General Plan
San Diego County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	927	1000sqft
Government Office Building	307	1000sqft
Industrial Park	9193	1000sqft
City Park	1408	Acre
Apartments Low Rise	13321	Dwelling Unit
Single Family Housing	17314	Dwelling Unit
Strip Mall	2302	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)		Utility Company	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			

1.3 User Entered Comments

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Project Characteristics -
 Land Use - Existing development per project description
 Construction Phase - No construction estimates
 Off-road Equipment -
 Vehicle Trips -

Woodstoves - Approximately 6% of all new homes have more than 1 fireplace
 51% of homes have no fireplace
 74% burn wood; 42% of those are not used
 26% burn gas; 42% of those are not used

2.0 Emissions Summary

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	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77	221,302.73
Energy	32.72	283.24	145.53	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.54	359,138.69
Mobile	1,326.78	2,372.58	10,940.10	35.08	3,840.98	171.32	4,012.30	53.42	165.00	218.42		#####		99.30		#####
Total	9,103.27	2,814.49	23,784.62	49.75	3,840.98	171.32	5,523.46	53.42	165.00	1,729.56	176,209.67	#####		551.96	14.31	#####

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	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77
Energy	32.72	283.24	145.53	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.54	359,138.69
Mobile	1,326.78	2,372.58	10,940.10	35.08	3,840.98	171.32	4,012.30	53.42	165.00	218.42		#####		99.30		#####
Total	9,103.27	2,814.49	23,784.62	49.75	3,840.98	171.32	5,523.46	53.42	165.00	1,729.56	176,209.67	#####		551.96	14.31	#####

3.0 Construction Detail

3.1 Mitigation Measures Construction

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	1,326.78	2,372.58	10,940.10	35.08	3,840.98	171.32	4,012.30	53.42	165.00	218.42		#####		99.30		#####
Unmitigated	1,326.78	2,372.58	10,940.10	35.08	3,840.98	171.32	4,012.30	53.42	165.00	218.42		#####		99.30		#####
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	87,785.39	95,378.36	80858.47	250,925,601	250,925,601
City Park	2,238.72	2,238.72	2238.72	4,779,337	4,779,337
General Office Building	10,206.27	2,196.99	908.46	18,481,939	18,481,939
Government Office Building	21,161.51	0.00	0.00	25,921,043	25,921,043
Industrial Park	63,983.28	22,890.57	6710.89	130,910,831	130,910,831
Single Family Housing	165,694.98	174,525.12	151843.78	471,061,340	471,061,340
Strip Mall	102,024.64	96,776.08	47029.86	143,867,497	143,867,497
Total	453,094.79	394,005.84	289,590.18	1,045,947,588	1,045,947,588

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	41.60	18.80	39.60
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
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60
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	32.72	283.24	145.53	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.54	359,138.69
NaturalGas Unmitigated	32.72	283.24	145.53	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.54	359,138.69
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	609887	6.58	56.21	23.92	0.36		0.00	4.54		0.00	4.54		71,751.44		1.38	1.32	72,188.10
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	53410.4	0.58	5.24	4.40	0.03		0.00	0.40		0.00	0.40		6,283.58		0.12	0.12	6,321.82
Government Office Building	17688.2	0.19	1.73	1.46	0.01		0.00	0.13		0.00	0.13		2,080.97		0.04	0.04	2,093.63
Industrial Park	529668	5.71	51.93	43.62	0.31		0.00	3.95		0.00	3.95		62,313.87		1.19	1.14	62,693.10
Single Family Housing	1.80912e+006	19.51	166.72	70.95	1.06		0.00	13.48		0.00	13.48		#####		4.08	3.90	214,132.54
Strip Mall	14442.7	0.16	1.42	1.19	0.01		0.00	0.11		0.00	0.11		1,699.14		0.03	0.03	1,709.48
Total		32.73	283.25	145.54	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.55	359,138.67

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	609.887	6.58	56.21	23.92	0.36		0.00	4.54		0.00	4.54		71,751.44		1.38	1.32	72,188.10
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	53.4104	0.58	5.24	4.40	0.03		0.00	0.40		0.00	0.40		6,283.58		0.12	0.12	6,321.82
Government Office Building	17.6882	0.19	1.73	1.46	0.01		0.00	0.13		0.00	0.13		2,080.97		0.04	0.04	2,093.63
Industrial Park	529.668	5.71	51.93	43.62	0.31		0.00	3.95		0.00	3.95		62,313.87		1.19	1.14	62,693.10
Single Family Housing	1809.12	19.51	166.72	70.95	1.06		0.00	13.48		0.00	13.48		#####		4.08	3.90	214,132.54
Strip Mall	14.4427	0.16	1.42	1.19	0.01		0.00	0.11		0.00	0.11		1,699.14		0.03	0.03	1,709.48
Total		32.73	283.25	145.54	1.78		0.00	22.61		0.00	22.61		356,966.25		6.84	6.55	359,138.67

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	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77	221,302.73
Unmitigated	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77	221,302.73
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	461.74					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,224.41					0.00	0.00		0.00	0.00						0.00
Hearth	5,963.67	126.54	10,008.69	12.75		0.00	1,474.96		0.00	1,474.94	176,209.67	28,715.29		440.42	7.77	216,583.10
Landscaping	93.95	32.13	2,690.30	0.14		0.00	13.59		0.00	13.59		4,606.26		5.40		4,719.64
Total	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77	221,302.74

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	461.74					0.00	0.00		0.00	0.00						0.00
Consumer Products	1,224.41					0.00	0.00		0.00	0.00						0.00
Hearth	5,963.67	126.54	10,008.69	12.75		0.00	1,474.96		0.00	1,474.94	176,209.67	28,715.29		440.42	7.77	216,583.10
Landscaping	93.95	32.13	2,690.30	0.14		0.00	13.59		0.00	13.59		4,606.26		5.40		4,719.64
Total	7,743.77	158.67	12,698.99	12.89		0.00	1,488.55		0.00	1,488.53	176,209.67	33,321.55		445.82	7.77	221,302.74

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Woodstoves - 51% of homes have no fireplace
 74% burn wood; 42% of those are not used
 26% burn gas; 42% of those are not used

2.0 Emissions Summary

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	1,248.19	15.49	1,359.93	0.64		0.00	155.38		0.00	155.38	15,087.47	4,266.33	19,353.80	20.01	1.03	20,094.23
Energy	7.24	62.69	32.57	0.39		0.00	5.00		0.00	5.00	0.00	258,337.19	#####	8.31	3.94	259,734.15
Mobile	570.02	1,087.28	5,058.52	10.06	1,015.35	56.73	1,072.08	16.22	54.70	70.93	0.00	764,545.32	#####	35.38	0.00	765,288.30
Waste						0.00	0.00		0.00	0.00	30,085.06	0.00	30,085.06	1,777.98	0.00	67,422.57
Water						0.00	0.00		0.00	0.00	0.00	217,084.73	#####	1,349.58	36.32	256,685.34
Total	1,825.45	1,165.46	6,451.02	11.09	1,015.35	56.73	1,232.46	16.22	54.70	231.31	45,172.53	#####	#####	3,191.26	41.29	#####

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	1,248.19	15.49	1,359.93	0.64		0.00	155.38		0.00	155.38	15,087.47	4,266.33	19,353.80	20.01	1.03	20,094.23
Energy	7.24	62.69	32.57	0.39		0.00	5.00		0.00	5.00	0.00	258,337.19	#####	8.31	3.94	259,734.15
Mobile	570.02	1,087.28	5,058.52	10.06	1,015.35	56.73	1,072.08	16.22	54.70	70.93	0.00	764,545.32	#####	35.38	0.00	765,288.30
Waste						0.00	0.00		0.00	0.00	30,085.06	0.00	30,085.06	1,777.98	0.00	67,422.57
Water						0.00	0.00		0.00	0.00	0.00	217,084.73	#####	1,349.58	36.32	256,685.34
Total	1,825.45	1,165.46	6,451.02	11.09	1,015.35	56.73	1,232.46	16.22	54.70	231.31	45,172.53	#####	#####	3,191.26	41.29	#####

3.0 Construction Detail

3.1 Mitigation Measures Construction

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	570.02	1,087.28	5,058.52	10.06	1,015.35	56.73	1,072.08	16.22	54.70	70.93	0.00	764,545.32	#####	35.38	0.00	765,288.30
Unmitigated	570.02	1,087.28	5,058.52	10.06	1,015.35	56.73	1,072.08	16.22	54.70	70.93	0.00	764,545.32	#####	35.38	0.00	765,288.30
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 Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	104,609.66	113,657.84	96355.18	299,016,064	299,016,064
City Park	1,365.81	1,365.81	1365.81	2,915,803	2,915,803
General Office Building	16,272.78	3,502.86	1448.44	29,467,428	29,467,428
Government Office Building	208,582.18	0.00	0.00	255,495,358	255,495,358
Industrial Park	56,501.28	20,213.82	5926.14	115,602,537	115,602,537
Single Family Housing	197,448.24	207,970.56	180942.64	561,334,040	561,334,040
Strip Mall	473,426.24	449,071.28	218233.26	667,590,185	667,590,185
Total	1,058,206.19	795,782.17	504,271.47	1,931,421,416	1,931,421,416

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	41.60	18.80	39.60
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

Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60
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	186,720.53	#####	6.94	2.63	187,681.65
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	186,720.53	#####	6.94	2.63	187,681.65
NaturalGas Mitigated	7.24	62.69	32.57	0.39		0.00	5.00		0.00	5.00	0.00	71,616.65	71,616.65	1.37	1.31	72,052.50
NaturalGas Unmitigated	7.24	62.69	32.57	0.39		0.00	5.00		0.00	5.00	0.00	71,616.65	71,616.65	1.37	1.31	72,052.50
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					
Apartments Low Rise	2.65272e+008	1.43	12.22	5.20	0.08		0.00	0.99		0.00	0.99	0.00	14,155.94	14,155.94	0.27	0.26	14,242.09
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	3.10823e+007	0.17	1.52	1.28	0.01		0.00	0.12		0.00	0.12	0.00	1,658.67	1,658.67	0.03	0.03	1,668.77

Government Office Building	6.36368e+007	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24	0.00	3,395.90	3,395.90	0.07	0.06	3,416.57
Industrial Park	1.70722e+008	0.92	8.37	7.03	0.05		0.00	0.64		0.00	0.64	0.00	9,110.35	9,110.35	0.17	0.17	9,165.80
Single Family Housing	7.86871e+008	4.24	36.26	15.43	0.23		0.00	2.93		0.00	2.93	0.00	41,990.41	41,990.41	0.80	0.77	42,245.96
Strip Mall	2.44618e+007	0.13	1.20	1.01	0.01		0.00	0.09		0.00	0.09	0.00	1,305.37	1,305.37	0.03	0.02	1,313.32
Total		7.23	62.69	32.57	0.40		0.00	5.01		0.00	5.01	0.00	71,616.64	71,616.64	1.37	1.31	72,052.51

Mitigated

Land Use	Natural Gas Use kBTU	ROG tons/yr	NOx tons/yr	CO tons/yr	SO2 tons/yr	Fugitive PM10 tons/yr	Exhaust PM10 tons/yr	PM10 Total tons/yr	Fugitive PM2.5 tons/yr	Exhaust PM2.5 tons/yr	PM2.5 Total tons/yr	Bio- CO2 MT/yr	NBio- CO2 MT/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Low Rise	2.65272e+008	1.43	12.22	5.20	0.08		0.00	0.99		0.00	0.99	0.00	14,155.94	14,155.94	0.27	0.26	14,242.09
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	3.10823e+007	0.17	1.52	1.28	0.01		0.00	0.12		0.00	0.12	0.00	1,658.67	1,658.67	0.03	0.03	1,668.77
Government Office Building	6.36368e+007	0.34	3.12	2.62	0.02		0.00	0.24		0.00	0.24	0.00	3,395.90	3,395.90	0.07	0.06	3,416.57
Industrial Park	1.70722e+008	0.92	8.37	7.03	0.05		0.00	0.64		0.00	0.64	0.00	9,110.35	9,110.35	0.17	0.17	9,165.80
Single Family Housing	7.86871e+008	4.24	36.26	15.43	0.23		0.00	2.93		0.00	2.93	0.00	41,990.41	41,990.41	0.80	0.77	42,245.96
Strip Mall	2.44618e+007	0.13	1.20	1.01	0.01		0.00	0.09		0.00	0.09	0.00	1,305.37	1,305.37	0.03	0.02	1,313.32
Total		7.23	62.69	32.57	0.40		0.00	5.01		0.00	5.01	0.00	71,616.64	71,616.64	1.37	1.31	72,052.51

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh	ROG tons/yr	NOx tons/yr	CO tons/yr	SO2 tons/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Low Rise	5.576e+007					19,747.97	0.73	0.28	19,849.62
City Park	0					0.00	0.00	0.00	0.00
General Office Building	2.21552e+007					7,846.50	0.29	0.11	7,886.89
Government Office Building	4.53597e+007					16,064.62	0.60	0.23	16,147.31

Industrial Park	1.21689e+008					43,097.36	1.60	0.61	43,319.20
Single Family Housing	1.32281e+008					46,848.78	1.74	0.66	47,089.92
Strip Mall	1.49975e+008					53,115.30	1.97	0.75	53,388.71
Total						186,720.53	6.93	2.64	187,681.65

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	5.576e+007					19,747.97	0.73	0.28	19,849.62
City Park	0					0.00	0.00	0.00	0.00
General Office Building	2.21552e+007					7,846.50	0.29	0.11	7,886.89
Government Office Building	4.53597e+007					16,064.62	0.60	0.23	16,147.31
Industrial Park	1.21689e+008					43,097.36	1.60	0.61	43,319.20
Single Family Housing	1.32281e+008					46,848.78	1.74	0.66	47,089.92
Strip Mall	1.49975e+008					53,115.30	1.97	0.75	53,388.71
Total						186,720.53	6.93	2.64	187,681.65

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
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Category	tons/yr										MT/yr					
Mitigated	1,248.19	15.49	1,359.93	0.64		0.00	155.38		0.00	155.38	15,087.47	4,266.33	19,353.80	20.01	1.03	20,094.23
Unmitigated	1,248.19	15.49	1,359.93	0.64		0.00	155.38		0.00	155.38	15,087.47	4,266.33	19,353.80	20.01	1.03	20,094.23
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	tons/yr										MT/yr					
Architectural Coating	109.84					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	298.05					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	831.93	12.32	1,085.00	0.62		0.00	153.88		0.00	153.87	15,087.47	3,818.53	18,905.99	19.57	1.03	19,637.26
Landscaping	8.37	3.17	274.93	0.01		0.00	1.51		0.00	1.51	0.00	447.80	447.80	0.44	0.00	456.96
Total	1,248.19	15.49	1,359.93	0.63		0.00	155.39		0.00	155.38	15,087.47	4,266.33	19,353.79	20.01	1.03	20,094.22

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	109.84					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	298.05					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	831.93	12.32	1,085.00	0.62		0.00	153.88		0.00	153.87	15,087.47	3,818.53	18,905.99	19.57	1.03	19,637.26
Landscaping	8.37	3.17	274.93	0.01		0.00	1.51		0.00	1.51	0.00	447.80	447.80	0.44	0.00	456.96
Total	1,248.19	15.49	1,359.93	0.63		0.00	155.39		0.00	155.38	15,087.47	4,266.33	19,353.79	20.01	1.03	20,094.22

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					217,084.73	1,349.58	36.32	256,685.34
Unmitigated					217,084.73	1,349.58	36.32	256,685.34
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	1034.26 / 652.03					7,346.65	31.84	0.89	8,290.09
City Park	0 / 1023.48					4,027.12	0.15	0.06	4,047.85
General Office Building	262.69 / 161.004					1,847.85	8.09	0.22	2,087.38
Government Office Building	601.144 / 368.443					4,228.65	18.51	0.51	4,776.80
Industrial Park	39915.7 / 0					184,519.89	1,225.24	32.81	#####
Single Family Housing	1344.26 / 847.467					9,548.70	41.39	1.15	10,774.92
Strip Mall	791.243 / 484.955					5,565.87	24.36	0.68	6,287.35
Total						217,084.73	1,349.58	36.32	256,685.34

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr			MT/yr				
Apartments Low Rise	1034.26 / 652.03					7,346.65	31.84	0.89	8,290.09
City Park	0 / 1023.48					4,027.12	0.15	0.06	4,047.85
General Office Building	262.69 / 161.004					1,847.85	8.09	0.22	2,087.38
Government Office Building	601.144 / 368.443					4,228.65	18.51	0.51	4,776.80
Industrial Park	39915.7 / 0					184,519.89	1,225.24	32.81	#####
Single Family Housing	1344.26 / 847.467					9,548.70	41.39	1.15	10,774.92
Strip Mall	791.243 / 484.955					5,565.87	24.36	0.68	6,287.35
Total						217,084.73	1,349.58	36.32	256,685.34

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					30,085.06	1,777.98	0.00	67,422.57
Unmitigated					30,085.06	1,777.98	0.00	67,422.57
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	7302.04					1,482.25	87.60	0.00	3,321.81
City Park	73.87					14.99	0.89	0.00	33.60
General Office Building	1374.54					279.02	16.49	0.00	625.30
Government Office Building	2814.18					571.25	33.76	0.00	1,280.22
Industrial Park	99913.9					20,281.61	1,198.61	0.00	45,452.39
Single Family Housing	25514.3					5,179.17	306.08	0.00	11,606.86
Strip Mall	11216.1					2,276.77	134.55	0.00	5,102.38
Total						30,085.06	1,777.98	0.00	67,422.56

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	7302.04					1,482.25	87.60	0.00	3,321.81
City Park	73.87					14.99	0.89	0.00	33.60
General Office Building	1374.54					279.02	16.49	0.00	625.30
Government Office Building	2814.18					571.25	33.76	0.00	1,280.22
Industrial Park	99913.9					20,281.61	1,198.61	0.00	45,452.39
Single Family Housing	25514.3					5,179.17	306.08	0.00	11,606.86
Strip Mall	11216.1					2,276.77	134.55	0.00	5,102.38
Total						30,085.06	1,777.98	0.00	67,422.56

9.0 Vegetation

**San Marcos General Plan
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	1979	1000sqft
Government Office Building	5497	1000sqft
Industrial Park	7141	1000sqft
City Park	360	Acre
Apartments Low Rise	23648	Dwelling Unit
Single Family Housing	18194	Dwelling Unit
Strip Mall	18301	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)		Utility Company	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			

1.3 User Entered Comments

Project Characteristics -
 Land Use - Estimated development by 2020
 Construction Phase - No construction estimates
 Off-road Equipment -
 Vehicle Trips - 40

Woodstoves - 51% of homes have no fireplace
 74% burn wood; 42% of those are not used

2.0 Emissions Summary

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	1,432.55	16.89	1,506.45	0.57		0.00	169.89		0.00	169.89	16,192.21	4,889.44	21,081.65	17.76	1.18	21,821.89
Energy	7.76	67.31	35.74	0.42		0.00	5.36		0.00	5.36	0.00	316,089.16	#####	10.36	4.78	317,788.22
Mobile	598.36	1,068.27	4,881.79	14.06	1,414.29	73.50	1,487.79	22.53	70.87	93.39	0.00	972,697.31	#####	37.02	0.00	973,474.72
Waste						0.00	0.00		0.00	0.00	31,435.62	0.00	31,435.62	1,857.79	0.00	70,449.24
Water						0.00	0.00		0.00	0.00	0.00	203,057.30	#####	1,247.96	33.62	239,685.71
Total	2,038.67	1,152.47	6,423.98	15.05	1,414.29	73.50	1,663.04	22.53	70.87	268.64	47,627.83	#####	#####	3,170.89	39.58	#####

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	1,432.55	16.89	1,506.45	0.57		0.00	169.89		0.00	169.89	16,192.21	4,889.44	21,081.65	17.76	1.18	21,821.89
Energy	7.76	67.31	35.74	0.42		0.00	5.36		0.00	5.36	0.00	316,089.16	#####	10.36	4.78	317,788.22
Mobile	598.36	1,068.27	4,881.79	14.06	1,414.29	73.50	1,487.79	22.53	70.87	93.39	0.00	972,697.31	#####	37.02	0.00	973,474.72
Waste						0.00	0.00		0.00	0.00	31,435.62	0.00	31,435.62	1,857.79	0.00	70,449.24
Water						0.00	0.00		0.00	0.00	0.00	203,057.30	#####	1,247.96	33.62	239,685.71
Total	2,038.67	1,152.47	6,423.98	15.05	1,414.29	73.50	1,663.04	22.53	70.87	268.64	47,627.83	#####	#####	3,170.89	39.58	#####

3.0 Construction Detail

3.1 Mitigation Measures Construction

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	598.36	1,068.27	4,881.79	14.06	1,414.29	73.50	1,487.79	22.53	70.87	93.39	0.00	972,697.31	#####	37.02	0.00	973,474.72
Unmitigated	598.36	1,068.27	4,881.79	14.06	1,414.29	73.50	1,487.79	22.53	70.87	93.39	0.00	972,697.31	#####	37.02	0.00	973,474.72
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 Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Low Rise	155,840.32	169,319.68	143,543.36	445,453,691	445,453,691
City Park	572.40	572.40	572.40	1,221,990	1,221,990
General Office Building	21,788.79	4,690.23	1,939.42	39,456,048	39,456,048
Government Office Building	378,908.21	0.00	0.00	464,130,198	464,130,198
Industrial Park	49,701.36	17,781.09	5,212.93	101,689,790	101,689,790
Single Family Housing	174,116.58	183,395.52	159,561.38	495,003,467	495,003,467
Strip Mall	811,100.32	769,374.04	373,889.43	1,143,752,854	1,143,752,854
Total	1,592,027.98	1,145,132.96	684,718.92	2,690,708,038	2,690,708,038

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	41.60	18.80	39.60
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

Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60
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	239,331.80	#####	8.89	3.37	240,563.72
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	239,331.80	#####	8.89	3.37	240,563.72
NaturalGas Mitigated	7.76	67.31	35.74	0.42		0.00	5.36		0.00	5.36	0.00	76,757.36	76,757.36	1.47	1.41	77,224.50
NaturalGas Unmitigated	7.76	67.31	35.74	0.42		0.00	5.36		0.00	5.36	0.00	76,757.36	76,757.36	1.47	1.41	77,224.50
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					
Apartments Low Rise	3.95185e+008	2.13	18.21	7.75	0.12		0.00	1.47		0.00	1.47	0.00	21,088.55	21,088.55	0.40	0.39	21,216.89
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	4.16184e+007	0.22	2.04	1.71	0.01		0.00	0.16		0.00	0.16	0.00	2,220.91	2,220.91	0.04	0.04	2,234.43

Government Office Building	1.15602e+008	0.62	5.67	4.76	0.03		0.00	0.43		0.00	0.43	0.00	6,168.96	6,168.96	0.12	0.11	6,206.50
Industrial Park	1.50175e+008	0.81	7.36	6.18	0.04		0.00	0.56		0.00	0.56	0.00	8,013.92	8,013.92	0.15	0.15	8,062.69
Single Family Housing	6.93889e+008	3.74	31.97	13.61	0.20		0.00	2.59		0.00	2.59	0.00	37,028.58	37,028.58	0.71	0.68	37,253.93
Strip Mall	4.19093e+007	0.23	2.05	1.73	0.01		0.00	0.16		0.00	0.16	0.00	2,236.44	2,236.44	0.04	0.04	2,250.05
Total		7.75	67.30	35.74	0.41		0.00	5.37		0.00	5.37	0.00	76,757.36	76,757.36	1.46	1.41	77,224.49

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	tons/yr										MT/yr					
Apartments Low Rise	3.95185e+008	2.13	18.21	7.75	0.12		0.00	1.47		0.00	1.47	0.00	21,088.55	21,088.55	0.40	0.39	21,216.89
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	4.16184e+007	0.22	2.04	1.71	0.01		0.00	0.16		0.00	0.16	0.00	2,220.91	2,220.91	0.04	0.04	2,234.43
Government Office Building	1.15602e+008	0.62	5.67	4.76	0.03		0.00	0.43		0.00	0.43	0.00	6,168.96	6,168.96	0.12	0.11	6,206.50
Industrial Park	1.50175e+008	0.81	7.36	6.18	0.04		0.00	0.56		0.00	0.56	0.00	8,013.92	8,013.92	0.15	0.15	8,062.69
Single Family Housing	6.93889e+008	3.74	31.97	13.61	0.20		0.00	2.59		0.00	2.59	0.00	37,028.58	37,028.58	0.71	0.68	37,253.93
Strip Mall	4.19093e+007	0.23	2.05	1.73	0.01		0.00	0.16		0.00	0.16	0.00	2,236.44	2,236.44	0.04	0.04	2,250.05
Total		7.75	67.30	35.74	0.41		0.00	5.37		0.00	5.37	0.00	76,757.36	76,757.36	1.46	1.41	77,224.49

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	8.30674e+007					29,419.18	1.09	0.41	29,570.61
City Park	0					0.00	0.00	0.00	0.00
General Office Building	2.96652e+007					10,506.24	0.39	0.15	10,560.32
Government Office Building	8.24e+007					29,182.83	1.08	0.41	29,333.04

Industrial Park	1.07044e+008					37,910.60	1.41	0.53	38,105.74
Single Family Housing	1.1665e+008					41,312.85	1.53	0.58	41,525.50
Strip Mall	2.56946e+008					91,000.11	3.38	1.28	91,468.52
Total						239,331.81	8.88	3.36	240,563.73

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Low Rise	8.30674e+007					29,419.18	1.09	0.41	29,570.61
City Park	0					0.00	0.00	0.00	0.00
General Office Building	2.96652e+007					10,506.24	0.39	0.15	10,560.32
Government Office Building	8.24e+007					29,182.83	1.08	0.41	29,333.04
Industrial Park	1.07044e+008					37,910.60	1.41	0.53	38,105.74
Single Family Housing	1.1665e+008					41,312.85	1.53	0.58	41,525.50
Strip Mall	2.56946e+008					91,000.11	3.38	1.28	91,468.52
Total						239,331.81	8.88	3.36	240,563.73

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
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Category	tons/yr										MT/yr					
Mitigated	1,432.55	16.89	1,506.45	0.57		0.00	169.89		0.00	169.89	16,192.21	4,889.44	21,081.65	17.76	1.18	21,821.89
Unmitigated	1,432.55	16.89	1,506.45	0.57		0.00	169.89		0.00	169.89	16,192.21	4,889.44	21,081.65	17.76	1.18	21,821.89
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	126.26					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	348.82					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	948.11	13.30	1,193.27	0.55		0.00	168.15		0.00	168.15	16,192.21	4,376.18	20,568.39	17.28	1.18	21,298.38
Landscaping	9.36	3.60	313.18	0.02		0.00	1.73		0.00	1.73	0.00	513.26	513.26	0.49	0.00	523.51
Total	1,432.55	16.90	1,506.45	0.57		0.00	169.88		0.00	169.88	16,192.21	4,889.44	21,081.65	17.77	1.18	21,821.89

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	126.26					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	348.82					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	948.11	13.30	1,193.27	0.55		0.00	168.15		0.00	168.15	16,192.21	4,376.18	20,568.39	17.28	1.18	21,298.38
Landscaping	9.36	3.60	313.18	0.02		0.00	1.73		0.00	1.73	0.00	513.26	513.26	0.49	0.00	523.51
Total	1,432.55	16.90	1,506.45	0.57		0.00	169.88		0.00	169.88	16,192.21	4,889.44	21,081.65	17.77	1.18	21,821.89

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					203,057.30	1,247.96	33.62	239,685.71
Unmitigated					203,057.30	1,247.96	33.62	239,685.71
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	1540.76 / 971.35					10,944.53	47.44	1.32	12,350.00
City Park	0 / 428.933					1,687.73	0.06	0.02	1,696.42
General Office Building	351.735 / 215.58					2,474.22	10.83	0.30	2,794.95
Government Office Building	1092.03 / 669.31					7,681.73	33.62	0.93	8,677.48
Industrial Park	35111.9 / 0					162,312.95	1,077.79	28.86	#####
Single Family Housing	1185.41 / 747.325					8,420.37	36.50	1.02	9,501.69
Strip Mall	1355.6 / 830.852					9,535.76	41.73	1.16	10,771.85
Total						203,057.29	1,247.97	33.61	239,685.71

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Low Rise	1540.76 / 971.35					10,944.53	47.44	1.32	12,350.00
City Park	0 / 428.933					1,687.73	0.06	0.02	1,696.42
General Office Building	351.735 / 215.58					2,474.22	10.83	0.30	2,794.95
Government Office Building	1092.03 / 669.31					7,681.73	33.62	0.93	8,677.48
Industrial Park	35111.9 / 0					162,312.95	1,077.79	28.86	#####
Single Family Housing	1185.41 / 747.325					8,420.37	36.50	1.02	9,501.69
Strip Mall	1355.6 / 830.852					9,535.76	41.73	1.16	10,771.85
Total						203,057.29	1,247.97	33.61	239,685.71

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					31,435.62	1,857.79	0.00	70,449.24
Unmitigated					31,435.62	1,857.79	0.00	70,449.24
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	10878.1					2,208.15	130.50	0.00	4,948.61
City Park	30.96					6.28	0.37	0.00	14.08
General Office Building	1840.47					373.60	22.08	0.00	837.26
Government Office Building	5112.21					1,037.73	61.33	0.00	2,325.63
Industrial Park	87889.2					17,840.72	1,054.36	0.00	39,982.20
Single Family Housing	29895.2					6,068.45	358.63	0.00	13,599.78
Strip Mall	19216					3,900.68	230.52	0.00	8,741.69
Total						31,435.61	1,857.79	0.00	70,449.25

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Low Rise	10878.1					2,208.15	130.50	0.00	4,948.61
City Park	30.96					6.28	0.37	0.00	14.08
General Office Building	1840.47					373.60	22.08	0.00	837.26
Government Office Building	5112.21					1,037.73	61.33	0.00	2,325.63
Industrial Park	87889.2					17,840.72	1,054.36	0.00	39,982.20
Single Family Housing	29895.2					6,068.45	358.63	0.00	13,599.78
Strip Mall	19216					3,900.68	230.52	0.00	8,741.69
Total						31,435.61	1,857.79	0.00	70,449.25

9.0 Vegetation

**San Marcos General Plan
San Diego County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	1979	1000sqft
Government Office Building	5497	1000sqft
Industrial Park	7141	1000sqft
City Park	360	Acre
Apartments Low Rise	23648	Dwelling Unit
Single Family Housing	18194	Dwelling Unit
Strip Mall	18301	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)		Utility Company	San Diego Gas & Electric
Climate Zone	13		2.6		
		Precipitation Freq (Days)			

1.3 User Entered Comments

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- Project Characteristics -
- Land Use - Estimated development by 2020
- Construction Phase - No construction estimates
- Off-road Equipment -
- Vehicle Trips -

Woodstoves - 51% of homes have no fireplace
 74% burn wood; 42% of those are not used

2.0 Emissions Summary

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	10,716.93	192.76	15,921.93	13.58		0.00	1,832.99		0.00	1,832.97	211,030.26	45,510.16		468.96	10.61	269,679.27
Energy	42.50	368.80	195.82	2.32		0.00	29.36		0.00	29.36		463,619.24		8.89	8.50	466,440.75
Mobile	3,911.67	6,913.07	30,622.55	94.12	10,221.56	463.43	10,685.00	142.16	446.21	588.38		#####		272.08		#####
Total	14,671.10	7,474.63	46,740.30	110.02	10,221.56	463.43	12,547.35	142.16	446.21	2,450.71	211,030.26	#####		749.93	19.11	#####

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	10,716.93	192.76	15,921.93	13.58		0.00	1,832.99		0.00	1,832.97	211,030.26	45,510.16		468.96	10.61	269,679.27

Energy	42.50	368.80	195.82	2.32		0.00	29.36		0.00	29.36		463,619.24		8.89	8.50	466,440.75
Mobile	3,911.67	6,913.07	30,622.55	94.12	10,221.56	463.43	10,685.00	142.16	446.21	588.38		#####		272.08		#####
Total	14,671.10	7,474.63	46,740.30	110.02	10,221.56	463.43	12,547.35	142.16	446.21	2,450.71	211,030.26	#####		749.93	19.11	#####

3.0 Construction Detail

3.1 Mitigation Measures Construction

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	3,911.67	6,913.07	30,622.55	94.12	10,221.56	463.43	10,685.00	142.16	446.21	588.38		#####		272.08		#####
Unmitigated	3,911.67	6,913.07	30,622.55	94.12	10,221.56	463.43	10,685.00	142.16	446.21	588.38		#####		272.08		#####
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	155,840.32	169,319.68	143,543.36	445,453,691	445,453,691
City Park	572.40	572.40	572.40	1,221,990	1,221,990
General Office Building	21,788.79	4,690.23	1,939.42	39,456,048	39,456,048
Government Office Building	378,908.21	0.00	0.00	464,130,198	464,130,198
Industrial Park	49,701.36	17,781.09	5,212.93	101,689,790	101,689,790
Single Family Housing	174,116.58	183,395.52	159,561.38	495,003,467	495,003,467
Strip Mall	811,100.32	769,374.04	373,889.43	1,143,752,854	1,143,752,854
Total	1,592,027.98	1,145,132.96	684,718.92	2,690,708,038	2,690,708,038

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	41.60	18.80	39.60
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
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60
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	42.50	368.80	195.82	2.32		0.00	29.36		0.00	29.36		463,619.24		8.89	8.50	466,440.75
NaturalGas Unmitigated	42.50	368.80	195.82	2.32		0.00	29.36		0.00	29.36		463,619.24		8.89	8.50	466,440.75
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	1.0827e+006	11.68	99.78	42.46	0.64		0.00	8.07		0.00	8.07		#####		2.44	2.34	128,151.36
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	114023	1.23	11.18	9.39	0.07		0.00	0.85		0.00	0.85		13,414.46		0.26	0.25	13,496.10
Government Office Building	316718	3.42	31.05	26.08	0.19		0.00	2.36		0.00	2.36		37,260.89		0.71	0.68	37,487.65
Industrial Park	411439	4.44	40.34	33.88	0.24		0.00	3.07		0.00	3.07		48,404.59		0.93	0.89	48,699.17
Single Family Housing	1.90107e+006	20.50	175.20	74.55	1.12		0.00	14.16		0.00	14.16		#####		4.29	4.10	225,016.02
Strip Mall	114820	1.24	11.26	9.46	0.07		0.00	0.86		0.00	0.86		13,508.23		0.26	0.25	13,590.44
Total		42.51	368.81	195.82	2.33		0.00	29.37		0.00	29.37		463,619.24		8.89	8.51	466,440.74

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	1082.7	11.68	99.78	42.46	0.64		0.00	8.07		0.00	8.07		#####		2.44	2.34	128,151.36
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	114.023	1.23	11.18	9.39	0.07		0.00	0.85		0.00	0.85		13,414.46		0.26	0.25	13,496.10
Government Office Building	316.718	3.42	31.05	26.08	0.19		0.00	2.36		0.00	2.36		37,260.89		0.71	0.68	37,487.65
Industrial Park	411.439	4.44	40.34	33.88	0.24		0.00	3.07		0.00	3.07		48,404.59		0.93	0.89	48,699.17
Single Family Housing	1901.07	20.50	175.20	74.55	1.12		0.00	14.16		0.00	14.16		#####		4.29	4.10	225,016.02
Strip Mall	114.82	1.24	11.26	9.46	0.07		0.00	0.86		0.00	0.86		13,508.23		0.26	0.25	13,590.44
Total		42.51	368.81	195.82	2.33		0.00	29.37		0.00	29.37		463,619.24		8.89	8.51	466,440.74

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	10,716.93	192.76	15,921.93	13.58		0.00	1,832.99		0.00	1,832.97	211,030.26	45,510.16		468.96	10.61	269,679.27
Unmitigated	10,716.93	192.76	15,921.93	13.58		0.00	1,832.99		0.00	1,832.97	211,030.26	45,510.16		468.96	10.61	269,679.27
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	691.82					0.00	0.00		0.00	0.00							0.00
Consumer Products	1,911.35					0.00	0.00		0.00	0.00							0.00
Hearth	8,009.67	152.75	12,439.02	13.40		0.00	1,813.71		0.00	1,813.68	211,030.26	39,218.82		462.98	10.61	263,262.26	
Landscaping	104.10	40.00	3,482.91	0.18		0.00	19.29		0.00	19.29		6,291.33		5.98		6,417.01	
Total	10,716.94	192.75	15,921.93	13.58		0.00	1,833.00		0.00	1,832.97	211,030.26	45,510.15		468.96	10.61	269,679.27	

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	691.82					0.00	0.00		0.00	0.00							0.00
Consumer Products	1,911.35					0.00	0.00		0.00	0.00							0.00
Hearth	8,009.67	152.75	12,439.02	13.40		0.00	1,813.71		0.00	1,813.68	211,030.26	39,218.82		462.98	10.61	263,262.26	
Landscaping	104.10	40.00	3,482.91	0.18		0.00	19.29		0.00	19.29		6,291.33		5.98		6,417.01	
Total	10,716.94	192.75	15,921.93	13.58		0.00	1,833.00		0.00	1,832.97	211,030.26	45,510.15		468.96	10.61	269,679.27	

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation
