

California Mixed Use Complex
San Joaquin Valley Unified APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Parking Lot	50	1000sqft
Quality Restaurant	5	1000sqft
Apartments Mid Rise	100	Dwelling Unit
Supermarket	45	1000sqft

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.7 **Utility Company** Pacific Gas & Electric Company
Climate Zone 3 **Precipitation Freq (Days)** 45

1.3 User Entered Comments

Project Characteristics -

Land Use - Modified Lot Acreages to reflect a mixed use setting (residential, retail and recreational on same footprint), open space and 2 parking lots on same original footprint size as the residential mid-rise apartment building.

Construction Phase - Construction schedule is shorten to half the default phase days

Off-road Equipment - Need to double the construction equipment to meet the construction schedule that has been shorten in half from the default schedule.

Off-road Equipment - Need to double the construction equipment to meet the construction schedule that has been shorten in half from the default schedule.

Off-road Equipment - No demolition phase; greenfield project

Off-road Equipment - Need to double the construction equipment to meet the construction schedule that has been shorten in half from the default schedule.

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Grading - Total acres disturbed changed due to change in construction schedule and number of equipment

Water And Wastewater - Changed default because of more accurate information known.

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - All construction equipment will Tier 3

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2012	2.38	4.05	3.04	0.01	0.10	0.26	0.37	0.01	0.26	0.27	0.00	443.53	443.53	0.06	0.00	444.78
Total	2.38	4.05	3.04	0.01	0.10	0.26	0.37	0.01	0.26	0.27	0.00	443.53	443.53	0.06	0.00	444.78

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					
2012	2.13	2.47	3.00	0.01	0.09	0.19	0.28	0.01	0.19	0.20	0.00	443.53	443.53	0.06	0.00	444.78
Total	2.13	2.47	3.00	0.01	0.09	0.19	0.28	0.01	0.19	0.20	0.00	443.53	443.53	0.06	0.00	444.78

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	1.02	0.01	1.07	0.00		0.00	0.06		0.00	0.06	6.47	131.19	137.66	0.03	0.00	139.11
Energy	0.02	0.19	0.13	0.00		0.00	0.01		0.00	0.01	0.00	819.75	819.75	0.03	0.01	824.85
Mobile	6.34	27.90	50.86	0.05	4.51	0.78	5.29	0.08	0.72	0.81	0.00	5,880.20	5,880.20	0.32	0.00	5,887.00
Waste						0.00	0.00		0.00	0.00	61.78	0.00	61.78	3.65	0.00	138.46
Water						0.00	0.00		0.00	0.00	0.00	25.83	25.83	0.00	0.01	29.18
Total	7.38	28.10	52.06	0.05	4.51	0.78	5.36	0.08	0.72	0.88	68.25	6,856.97	6,925.22	4.03	0.02	7,018.60

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.97	0.01	0.77	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.25
Energy	0.02	0.17	0.12	0.00		0.00	0.01		0.00	0.01	0.00	785.70	785.70	0.03	0.01	790.59
Mobile	5.05	20.88	38.51	0.03	2.59	0.51	3.10	0.05	0.47	0.52	0.00	3,669.79	3,669.79	0.23	0.00	3,674.62
Waste						0.00	0.00		0.00	0.00	61.78	0.00	61.78	3.65	0.00	138.46
Water						0.00	0.00		0.00	0.00	0.00	25.83	25.83	0.00	0.01	29.18
Total	6.04	21.06	39.40	0.03	2.59	0.51	3.11	0.05	0.47	0.53	61.78	4,482.55	4,544.33	3.91	0.02	4,634.10

2.3 Vegetation

Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					14.59
Vegetation Land Change					-9.70
Total					4.89

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.3 Site Preparation - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.07	0.04	0.00		0.00	0.00		0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12
Total	0.01	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12

3.3 Site Preparation - 2012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.28	0.00	0.00	0.28

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.04	0.04	0.00		0.00	0.00		0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12
Total	0.01	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.11	7.11	0.00	0.00	7.12

3.3 Site Preparation - 2012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.00	0.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.13
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.28	0.00	0.00	0.28

3.4 Grading - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.12	0.07	0.00		0.01	0.01		0.01	0.01	0.00	10.41	10.41	0.00	0.00	10.44
Total	0.01	0.12	0.07	0.00	0.02	0.01	0.03	0.01	0.01	0.02	0.00	10.41	10.41	0.00	0.00	10.44

3.4 Grading - 2012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.00	0.00	0.26
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.34

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.05	0.06	0.00		0.00	0.00		0.00	0.00	0.00	10.41	10.41	0.00	0.00	10.44
Total	0.01	0.05	0.06	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	10.41	10.41	0.00	0.00	10.44

3.4 Grading - 2012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.26	0.00	0.00	0.26
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.00	0.00	0.34

3.5 Building Construction - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.62	3.37	2.19	0.00		0.23	0.23		0.23	0.23	0.00	322.54	322.54	0.05	0.00	323.61
Total	0.62	3.37	2.19	0.00		0.23	0.23		0.23	0.23	0.00	322.54	322.54	0.05	0.00	323.61

3.5 Building Construction - 2012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.28	0.16	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	37.50	37.50	0.00	0.00	37.52
Worker	0.04	0.05	0.47	0.00	0.07	0.00	0.07	0.00	0.00	0.00	0.00	52.10	52.10	0.00	0.00	52.18
Total	0.07	0.33	0.63	0.00	0.08	0.01	0.09	0.00	0.01	0.01	0.00	89.60	89.60	0.00	0.00	89.70

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.40	1.98	2.17	0.00		0.17	0.17		0.17	0.17	0.00	322.54	322.54	0.05	0.00	323.61
Total	0.40	1.98	2.17	0.00		0.17	0.17		0.17	0.17	0.00	322.54	322.54	0.05	0.00	323.61

3.5 Building Construction - 2012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.28	0.16	0.00	0.01	0.01	0.02	0.00	0.01	0.01	0.00	37.50	37.50	0.00	0.00	37.52
Worker	0.04	0.05	0.47	0.00	0.07	0.00	0.07	0.00	0.00	0.00	0.00	52.10	52.10	0.00	0.00	52.18
Total	0.07	0.33	0.63	0.00	0.08	0.01	0.09	0.00	0.01	0.01	0.00	89.60	89.60	0.00	0.00	89.70

3.6 Paving - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.02	0.14	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.14	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89

3.6 Paving - 2012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.06	0.08	0.00		0.01	0.01		0.01	0.01	0.00	10.85	10.85	0.00	0.00	10.89

3.6 Paving - 2012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65
Total	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65

3.7 Architectural Coating - 2012

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.63					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	1.63	0.02	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

3.7 Architectural Coating - 2012

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.00	0.00	0.47
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.00	0.00	0.47

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	1.63					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28
Total	1.63	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28

3.7 Architectural Coating - 2012

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.00	0.00	0.47
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47	0.00	0.00	0.47

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

- Increase Density
- Increase Diversity
- Improve Destination Accessibility
- Increase Transit Accessibility
- Integrate Below Market Rate Housing
- Improve Pedestrian Network
- Implement NEV Network

	ROG	NOx	CO	SO2	Fugitive 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	5.05	20.88	38.51	0.03	2.59	0.51	3.10	0.05	0.47	0.52	0.00	3,669.79	3,669.79	0.23	0.00	3,674.62
Unmitigated	6.34	27.90	50.86	0.05	4.51	0.78	5.29	0.08	0.72	0.81	0.00	5,880.20	5,880.20	0.32	0.00	5,887.00
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 Mid Rise	659.00	716.00	607.00	1,911,731	1,098,109
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	449.75	471.80	360.80	522,142	299,921
Supermarket	4,600.80	7,991.55	7489.80	6,253,559	3,592,081
Total	5,709.55	9,179.35	8,457.60	8,687,432	4,990,112

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 Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00

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
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	596.14	596.14	0.03	0.01	599.88
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	612.79	612.79	0.03	0.01	616.63
NaturalGas Mitigated	0.02	0.17	0.12	0.00		0.00	0.01		0.00	0.01	0.00	189.56	189.56	0.00	0.00	190.71
NaturalGas Unmitigated	0.02	0.19	0.13	0.00		0.00	0.01		0.00	0.01	0.00	206.96	206.96	0.00	0.00	208.22
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 Mid Rise	1.48481e+006	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	79.23	79.23	0.00	0.00	79.72
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quality Restaurant	1.06145e+006	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	56.64	56.64	0.00	0.00	56.99
Supermarket	1.332e+006	0.01	0.07	0.05	0.00		0.00	0.00		0.00	0.00	0.00	71.08	71.08	0.00	0.00	71.51
Total		0.03	0.19	0.12	0.00		0.00	0.01		0.00	0.01	0.00	206.95	206.95	0.00	0.00	208.22

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 Mid Rise	1.29203e+006	0.01	0.06	0.03	0.00		0.00	0.00		0.00	0.00	0.00	68.95	68.95	0.00	0.00	69.37
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Quality Restaurant	1.03326e+006	0.01	0.05	0.04	0.00		0.00	0.00		0.00	0.00	0.00	55.14	55.14	0.00	0.00	55.47
Supermarket	1.2269e+006	0.01	0.06	0.05	0.00		0.00	0.00		0.00	0.00	0.00	65.47	65.47	0.00	0.00	65.87
Total		0.03	0.17	0.12	0.00		0.00	0.00		0.00	0.00	0.00	189.56	189.56	0.00	0.00	190.71

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 Mid Rise	390340					113.55	0.01	0.00	114.27
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	155950					45.37	0.00	0.00	45.65
Supermarket	1.56015e+006					453.87	0.02	0.01	456.71
Total						612.79	0.03	0.01	616.63

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	377646					109.86	0.00	0.00	110.55
Parking Lot	-2110.25					-0.61	0.00	0.00	-0.62
Quality Restaurant	147840					43.01	0.00	0.00	43.28
Supermarket	1.52584e+006					443.89	0.02	0.01	446.67
Total						596.15	0.02	0.01	599.88

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.97	0.01	0.77	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.25
Unmitigated	1.02	0.01	1.07	0.00		0.00	0.06		0.00	0.06	6.47	131.19	137.66	0.03	0.00	139.11
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.16					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.78					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.05	0.00	0.30	0.00		0.00	0.06		0.00	0.06	6.47	129.96	136.43	0.03	0.00	137.86
Landscaping	0.03	0.01	0.77	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.25
Total	1.02	0.01	1.07	0.00		0.00	0.06		0.00	0.06	6.47	131.19	137.66	0.03	0.00	139.11

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.16					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.78					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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
Landscaping	0.03	0.01	0.77	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.25
Total	0.97	0.01	0.77	0.00		0.00	0.00		0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.25

7.0 Water Detail

7.1 Mitigation Measures Water

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					25.83	0.00	0.01	29.18
Unmitigated					25.83	0.00	0.01	29.18
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 Mid Rise	6.5154 / 4.10754					14.44	0.00	0.01	16.06
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Quality Restaurant	1.51767 / 0.0968725					2.49	0.00	0.00	2.86
Supermarket	5.54707 / 0.171559					8.91	0.00	0.00	10.26
Total						25.84	0.00	0.01	29.18

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	6.5154 / 4.10754					14.44	0.00	0.01	16.06
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Quality Restaurant	1.51767 / 0.0968725					2.49	0.00	0.00	2.86
Supermarket	5.54707 / 0.171559					8.91	0.00	0.00	10.26
Total						25.84	0.00	0.01	29.18

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					61.78	3.65	0.00	138.46
Unmitigated					61.78	3.65	0.00	138.46
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 Mid Rise	46					9.34	0.55	0.00	20.93
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	4.56					0.93	0.05	0.00	2.07
Supermarket	253.8					51.52	3.04	0.00	115.46
Total						61.79	3.64	0.00	138.46

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	46					9.34	0.55	0.00	20.93
Parking Lot	0					0.00	0.00	0.00	0.00
Quality Restaurant	4.56					0.93	0.05	0.00	2.07
Supermarket	253.8					51.52	3.04	0.00	115.46
Total						61.79	3.64	0.00	138.46

9.0 Vegetation

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					4.89	0.00	0.00	4.89
Total	NA	NA	NA	NA	NA	NA	NA	NA

9.1 Vegetation Land Change

Vegetation Type

	Initial/Final	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	Acres	tons				MT			
Grassland	3.25 / 1					-9.70	0.00	0.00	-9.70
Total						-9.70	0.00	0.00	-9.70

9.1 Net New Trees

Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons				MT			
Hardwood Maple	14					14.59	0.00	0.00	14.59
Total						14.59	0.00	0.00	14.59