Appendix A

Air Quality and Greenhouse Gas Emission Calculations

SOCO Santa Fe Mixed Use - Fullerton

Orange County, Winter - with Summer operations added

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Pharmacy/Drugstore w/o Drive Thru	5	1000sqft
Other Non-Asphalt Surfaces	6	1000sqft
Parking Structure	303	Space
Apartments Mid Rise	152	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			
			30		

1.3 User Entered Comments

Project Characteristics -

Land Use - Res and parking areas per project description (PD)
Res area includes clubhouse

Construction Phase - Construction phases and durations per PD
Demo no haul 6/1-7/19/12; haul-7/20-31/12
Grad haul-6/4-5/12; no haul 6/6-15/12
Util 6/18-8/17/12. Pave 8/20/12. Build 8/6/12-12/6/13. Paint 12/9/13-5/9/14.

Off-road Equipment - Building - 2 forklifts, 1 loader

Off-road Equipment - Demo - 2 excav, 1 loader

Off-road Equipment - All non-default const equip per applicant
Demo - 2 excav, 1 loader

Off-road Equipment - Grading - 1 loader, add 1 scraper

Off-road Equipment - Grading - 1 loader, add 1 scraper

Off-road Equipment - Pave - 1 paver, 1 roller, 1 loader

Off-road Equipment - Utilities - 1 excav, 2 loader/backhoe

Vehicle Trips - trip rates per LLG; all others default; no reduction for TOD

Mobile Land Use Mitigation - Traffic suburban ctr

Energy Mitigation -

Water Mitigation -

Off-road Equipment -

Grading - acreage pro-rate to grading days

Demolition - 8,840 CY asphalt & concrete = approx 16,000 tons

Trips and VMT - demo 630 RT per PD
export 125 RT per PD

Woodstoves - No fireplaces

Construction Off-road Equipment Mitigation - Dust control -water 2x/day
Graders, scrapers, dozers Tier 3

Area Mitigation -

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2012	12.73	110.83	65.53	0.12	57.92	5.23	62.15	3.51	5.23	8.74	0.00	12,840.41	0.00	1.00	0.00	12,861.45
2013	38.34	15.76	21.16	0.04	2.83	0.84	3.67	0.12	0.84	0.96	0.00	3,927.56	0.00	0.24	0.00	3,932.59
2014	38.29	2.97	3.78	0.01	0.49	0.26	0.75	0.02	0.26	0.28	0.00	638.22	0.00	0.06	0.00	639.47
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					
2012	9.44	82.03	53.95	0.12	34.38	4.23	38.61	1.68	4.23	4.69	0.00	12,840.41	0.00	1.00	0.00	12,861.45
2013	38.34	15.76	21.16	0.04	2.83	0.84	3.67	0.12	0.84	0.96	0.00	3,927.56	0.00	0.24	0.00	3,932.59
2014	38.29	2.97	3.78	0.01	0.49	0.26	0.75	0.02	0.26	0.28	0.00	638.22	0.00	0.06	0.00	639.47
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

2.2 Overall Operational

Unmitigated Operational - Winter

	ROG	NOx	CO	SO2	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	7.10	0.15	13.00	0.00		0.00	0.07		0.00	0.07	0.00	22.85		0.02	0.00	23.37
Energy	0.05	0.46	0.20	0.00		0.00	0.04		0.00	0.04		589.91		0.01	0.01	593.50
Mobile	6.87	13.48	64.02	0.11	13.30	0.56	13.86	0.45	0.56	1.01		11,026.30		0.47		11,036.14
Total	**14.02**	**14.09**	**77.22**	**0.11**	**13.30**	**0.56**	**13.97**	**0.45**	**0.56**	**1.12**	**0.00**	**11,639.06**		**0.50**	**0.01**	**11,653.01**

Mitigated Operational - Winter

	ROG	NOx	CO	SO2	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	7.10	0.15	13.00	0.00		0.00	0.07		0.00	0.07	0.00	22.85		0.02	0.00	23.37
Energy	0.05	0.40	0.17	0.00		0.00	0.03		0.00	0.03		516.23		0.01	0.01	519.37
Mobile	6.39	12.31	58.97	0.10	11.97	0.50	12.48	0.40	0.50	0.91		9,948.77		0.43		9,957.73
Total	**13.54**	**12.86**	**72.14**	**0.10**	**11.97**	**0.50**	**12.58**	**0.40**	**0.50**	**1.01**	**0.00**	**10,487.85**		**0.46**	**0.01**	**10,500.47**

Mitigated Operational - Summer

	ROG	NOx	CO	SO2	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	7.10	0.15	13.00	0.00		0.00	0.07		0.00	0.07	0.00	22.85		0.02	0.00	23.37
Energy	0.05	0.40	0.17	0.00		0.00	0.03		0.00	0.03		516.23		0.01	0.01	519.37
Mobile	5.93	11.23	60.00	0.11	11.97	0.50	12.48	0.40	0.50	0.91		10,542.11		0.42		10,550.86
Total	**13.08**	**11.78**	**73.17**	**0.11**	**11.97**	**0.50**	**12.58**	**0.40**	**0.50**	**1.01**	**0.00**	**11,081.19**		**0.45**	**0.01**	**11,093.60**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - no haul - 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	lb/day										lb/day					
Off-Road	2.66	19.27	13.50	0.02		1.25	1.25		1.25	1.25		2,205.36		0.24		2,210.34
Total	**2.66**	**19.27**	**13.50**	**0.02**		**1.25**	**1.25**		**1.25**	**1.25**		**2,205.36**		**0.24**		**2,210.34**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.66	19.27	13.50	0.02		1.25	1.25		1.25	1.25	0.00	2,205.36		0.24		2,210.34
Total	**2.66**	**19.27**	**13.50**	**0.02**		**1.25**	**1.25**		**1.25**	**1.25**	**0.00**	**2,205.36**		**0.24**		**2,210.34**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

3.3 Grading - cut/haul - 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	lb/day										lb/day					
Fugitive Dust					6.38	0.00	6.38	3.32	0.00	3.32						0.00
Off-Road	6.43	54.03	28.30	0.05		2.53	2.53		2.53	2.53		5,391.21		0.58		5,403.33
Total	**6.43**	**54.03**	**28.30**	**0.05**	**6.38**	**2.53**	**8.91**	**3.32**	**2.53**	**5.85**		**5,391.21**		**0.58**		**5,403.33**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.51	37.40	22.49	0.05	3.08	1.45	4.53	0.17	1.45	1.62		5,034.53		0.17		5,038.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.15	0.00	0.16	0.01	0.00	0.01		116.28		0.01		116.43
Total	**3.58**	**37.47**	**23.18**	**0.05**	**3.23**	**1.45**	**4.69**	**0.18**	**1.45**	**1.63**		**5,150.81**		**0.18**		**5,154.63**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.87	0.00	2.87	1.50	0.00	1.50						0.00
Off-Road	0.53	3.43	2.49	0.05		0.30	0.30		0.30	0.30	0.00	5,391.21		0.58		5,403.33
Total	**0.53**	**3.43**	**2.49**	**0.05**	**2.87**	**0.30**	**3.17**	**1.50**	**0.30**	**1.80**	**0.00**	**5,391.21**		**0.58**		**5,403.33**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.51	37.40	22.49	0.05	3.08	1.45	4.53	0.17	1.45	1.62		5,034.53		0.17		5,038.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.15	0.00	0.16	0.01	0.00	0.01		116.28		0.01		116.43
Total	**3.58**	**37.47**	**23.18**	**0.05**	**3.23**	**1.45**	**4.69**	**0.18**	**1.45**	**1.63**		**5,150.81**		**0.18**		**5,154.63**

3.4 Grading - no haul - 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	lb/day										lb/day					
Fugitive Dust					6.28	0.00	6.28	3.31	0.00	3.31						0.00
Off-Road	6.43	54.03	28.30	0.05		2.53	2.53		2.53	2.53		5,391.21		0.58		5,403.33
Total	**6.43**	**54.03**	**28.30**	**0.05**	**6.28**	**2.53**	**8.81**	**3.31**	**2.53**	**5.84**		**5,391.21**		**0.58**		**5,403.33**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.15	0.00	0.16	0.01	0.00	0.01		116.28		0.01		116.43
Total	**0.07**	**0.07**	**0.69**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**116.28**		**0.01**		**116.43**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.82	0.00	2.82	1.49	0.00	1.49						0.00
Off-Road	0.53	3.43	2.49	0.05		0.30	0.30		0.30	0.30	0.00	5,391.21		0.58		5,403.33
Total	**0.53**	**3.43**	**2.49**	**0.05**	**2.82**	**0.30**	**3.12**	**1.49**	**0.30**	**1.79**	**0.00**	**5,391.21**		**0.58**		**5,403.33**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.15	0.00	0.16	0.01	0.00	0.01		116.28		0.01		116.43
Total	**0.07**	**0.07**	**0.69**	**0.00**	**0.15**	**0.00**	**0.16**	**0.01**	**0.00**	**0.01**		**116.28**		**0.01**		**116.43**

3.5 Utilities - 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	lb/day										lb/day					
Off-Road	2.24	15.52	11.01	0.02		1.14	1.14		1.14	1.14		1,722.29		0.20		1,726.50
Total	**2.24**	**15.52**	**11.01**	**0.02**		**1.14**	**1.14**		**1.14**	**1.14**		**1,722.29**		**0.20**		**1,726.50**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.24	15.52	11.01	0.02		1.14	1.14		1.14	1.14	0.00	1,722.29		0.20		1,726.50
Total	**2.24**	**15.52**	**11.01**	**0.02**		**1.14**	**1.14**		**1.14**	**1.14**	**0.00**	**1,722.29**		**0.20**		**1,726.50**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

3.6 Demolition - haul - 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	lb/day										lb/day					
Fugitive Dust					42.80	0.00	42.80	0.00	0.00	0.00						0.00
Off-Road	2.66	19.27	13.50	0.02		1.25	1.25		1.25	1.25		2,205.36		0.24		2,210.34
Total	**2.66**	**19.27**	**13.50**	**0.02**	**42.80**	**1.25**	**44.05**	**0.00**	**1.25**	**1.25**		**2,205.36**		**0.24**		**2,210.34**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.42	47.12	28.33	0.06	14.88	1.82	16.70	0.22	1.82	2.04		6,343.51		0.22		6,348.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**4.47**	**47.18**	**28.88**	**0.06**	**15.00**	**1.82**	**16.83**	**0.22**	**1.82**	**2.05**		**6,436.54**		**0.23**		**6,441.28**

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	lb/day										lb/day					
Fugitive Dust					19.26	0.00	19.26	0.00	0.00	0.00						0.00
Off-Road	2.66	19.27	13.50	0.02		1.25	1.25		1.25	1.25	0.00	2,205.36		0.24		2,210.34
Total	**2.66**	**19.27**	**13.50**	**0.02**	**19.26**	**1.25**	**20.51**	**0.00**	**1.25**	**1.25**	**0.00**	**2,205.36**		**0.24**		**2,210.34**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.42	47.12	28.33	0.06	14.88	1.82	16.70	0.22	1.82	2.04		6,343.51		0.22		6,348.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**4.47**	**47.18**	**28.88**	**0.06**	**15.00**	**1.82**	**16.83**	**0.22**	**1.82**	**2.05**		**6,436.54**		**0.23**		**6,441.28**

3.7 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	lb/day										lb/day					
Off-Road	1.32	9.41	6.74	0.01		0.64	0.64		0.64	0.64		1,093.14		0.12		1,095.62
Total	**1.32**	**9.41**	**6.74**	**0.01**		**0.64**	**0.64**		**0.64**	**0.64**		**1,093.14**		**0.12**		**1,095.62**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.64	4.55	0.01	0.34	0.21	0.56	0.03	0.21	0.24		987.55		0.03		988.19
Worker	1.09	1.20	11.13	0.02	2.49	0.08	2.56	0.09	0.08	0.17		1,883.80		0.11		1,886.16
Total	**1.69**	**7.84**	**15.68**	**0.03**	**2.83**	**0.29**	**3.12**	**0.12**	**0.29**	**0.41**		**2,871.35**		**0.14**		**2,874.35**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.32	9.41	6.74	0.01		0.64	0.64		0.64	0.64	0.00	1,093.14		0.12		1,095.62
Total	**1.32**	**9.41**	**6.74**	**0.01**		**0.64**	**0.64**		**0.64**	**0.64**	**0.00**	**1,093.14**		**0.12**		**1,095.62**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.64	4.55	0.01	0.34	0.21	0.56	0.03	0.21	0.24		987.55		0.03		988.19
Worker	1.09	1.20	11.13	0.02	2.49	0.08	2.56	0.09	0.08	0.17		1,883.80		0.11		1,886.16
Total	**1.69**	**7.84**	**15.68**	**0.03**	**2.83**	**0.29**	**3.12**	**0.12**	**0.29**	**0.41**		**2,871.35**		**0.14**		**2,874.35**

3.7 Building Construction - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.21	8.64	6.73	0.01		0.57	0.57		0.57	0.57		1,093.14		0.11		1,095.40
Total	**1.21**	**8.64**	**6.73**	**0.01**		**0.57**	**0.57**		**0.57**	**0.57**		**1,093.14**		**0.11**		**1,095.40**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.55	6.03	4.20	0.01	0.34	0.19	0.54	0.03	0.19	0.22		991.10		0.03		991.68
Worker	1.02	1.09	10.23	0.02	2.49	0.08	2.56	0.09	0.08	0.17		1,843.31		0.10		1,845.51
Total	**1.57**	**7.12**	**14.43**	**0.03**	**2.83**	**0.27**	**3.10**	**0.12**	**0.27**	**0.39**		**2,834.41**		**0.13**		**2,837.19**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.21	8.64	6.73	0.01		0.57	0.57		0.57	0.57	0.00	1,093.14		0.11		1,095.40
Total	**1.21**	**8.64**	**6.73**	**0.01**		**0.57**	**0.57**		**0.57**	**0.57**	**0.00**	**1,093.14**		**0.11**		**1,095.40**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.55	6.03	4.20	0.01	0.34	0.19	0.54	0.03	0.19	0.22		991.10		0.03		991.68
Worker	1.02	1.09	10.23	0.02	2.49	0.08	2.56	0.09	0.08	0.17		1,843.31		0.10		1,845.51
Total	**1.57**	**7.12**	**14.43**	**0.03**	**2.83**	**0.27**	**3.10**	**0.12**	**0.27**	**0.39**		**2,834.41**		**0.13**		**2,837.19**

3.8 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	lb/day										lb/day					
Off-Road	2.62	16.22	10.19	0.02		1.42	1.42		1.42	1.42		1,436.69		0.23		1,441.63
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.62**	**16.22**	**10.19**	**0.02**		**1.42**	**1.42**		**1.42**	**1.42**		**1,436.69**		**0.23**		**1,441.63**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.62	16.22	10.19	0.02		1.42	1.42		1.42	1.42	0.00	1,436.69		0.23		1,441.63
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**2.62**	**16.22**	**10.19**	**0.02**		**1.42**	**1.42**		**1.42**	**1.42**	**0.00**	**1,436.69**		**0.23**		**1,441.63**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.05	0.06	0.55	0.00	0.12	0.00	0.13	0.00	0.00	0.01		93.03		0.01		93.14
Total	**0.05**	**0.06**	**0.55**	**0.00**	**0.12**	**0.00**	**0.13**	**0.00**	**0.00**	**0.01**		**93.03**		**0.01**		**93.14**

3.9 Architectural Coating - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.65					0.00	0.00		0.00	0.00						0.00
Off-Road	0.49	2.96	1.94	0.00		0.27	0.27		0.27	0.27		281.19		0.04		282.10
Total	**38.14**	**2.96**	**1.94**	**0.00**		**0.27**	**0.27**		**0.27**	**0.27**		**281.19**		**0.04**		**282.10**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.20	0.22	2.02	0.00	0.49	0.02	0.51	0.02	0.02	0.03		364.11		0.02		364.55
Total	**0.20**	**0.22**	**2.02**	**0.00**	**0.49**	**0.02**	**0.51**	**0.02**	**0.02**	**0.03**		**364.11**		**0.02**		**364.55**

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	37.65					0.00	0.00		0.00	0.00						0.00
Off-Road	0.49	2.96	1.94	0.00		0.27	0.27		0.27	0.27	0.00	281.19		0.04		282.10
Total	**38.14**	**2.96**	**1.94**	**0.00**		**0.27**	**0.27**		**0.27**	**0.27**	**0.00**	**281.19**		**0.04**		**282.10**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.20	0.22	2.02	0.00	0.49	0.02	0.51	0.02	0.02	0.03		364.11		0.02		364.55
Total	**0.20**	**0.22**	**2.02**	**0.00**	**0.49**	**0.02**	**0.51**	**0.02**	**0.02**	**0.03**		**364.11**		**0.02**		**364.55**

3.9 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.65					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24		281.19		0.04		282.03
Total	**38.10**	**2.77**	**1.92**	**0.00**		**0.24**	**0.24**		**0.24**	**0.24**		**281.19**		**0.04**		**282.03**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.19	0.20	1.86	0.00	0.49	0.02	0.51	0.02	0.02	0.03		357.03		0.02		357.43
Total	**0.19**	**0.20**	**1.86**	**0.00**	**0.49**	**0.02**	**0.51**	**0.02**	**0.02**	**0.03**		**357.03**		**0.02**		**357.43**

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	37.65					0.00	0.00		0.00	0.00						0.00
Off-Road	0.45	2.77	1.92	0.00		0.24	0.24		0.24	0.24	0.00	281.19		0.04		282.03
Total	**38.10**	**2.77**	**1.92**	**0.00**		**0.24**	**0.24**		**0.24**	**0.24**	**0.00**	**281.19**		**0.04**		**282.03**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.19	0.20	1.86	0.00	0.49	0.02	0.51	0.02	0.02	0.03		357.03		0.02		357.43
Total	**0.19**	**0.20**	**1.86**	**0.00**	**0.49**	**0.02**	**0.51**	**0.02**	**0.02**	**0.03**		**357.03**		**0.02**		**357.43**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Integrate Below Market Rate Housing

Winter

	ROG	NOx	CO	SO2	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	6.39	12.31	58.97	0.10	11.97	0.50	12.48	0.40	0.50	0.91		9,948.77		0.43		9,957.73
Unmitigated	6.87	13.48	64.02	0.11	13.30	0.56	13.86	0.45	0.56	1.01		11,026.30		0.47		11,036.14
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Summer

	ROG	NOx	CO	SO2	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	5.93	11.23	60.00	0.11	11.97	0.50	12.48	0.40	0.50	0.91		10,542.11		0.42		10,550.86
Unmitigated	6.36	12.27	65.48	0.12	13.30	0.56	13.86	0.45	0.56	1.00		11,685.03		0.46		11,694.66
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,010.80	1,088.32	922.64	3,361,482	3,025,334
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Structure	0.00	0.00	0.00		
Pharmacy/Drugstore w/o Drive Thru	214.70	214.70	214.70	397,842	358,058
Total	1,225.50	1,303.02	1,137.34	3,759,324	3,383,392

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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	12.70	7.00	9.50	40.20	19.20	40.60
Other Non-Asphalt Surfaces	8.90	13.30	7.40	0.00	0.00	0.00
Parking Structure	8.90	13.30	7.40	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	8.90	13.30	7.40	7.40	73.60	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.05	0.40	0.17	0.00		0.00	0.03		0.00	0.03		516.23		0.01	0.01	519.37
NaturalGas Unmitigated	0.05	0.46	0.20	0.00		0.00	0.04		0.00	0.04		589.91		0.01	0.01	593.50
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	lb/day										lb/day					
Apartments Mid Rise	4986.13	0.05	0.46	0.20	0.00		0.00	0.04		0.00	0.04		586.60		0.01	0.01	590.17
Other Non-Asphalt Surfaces	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
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	28.0822	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		3.30		0.00	0.00	3.32
Total		**0.05**	**0.46**	**0.20**	**0.00**		**0.00**	**0.04**		**0.00**	**0.04**		**589.90**		**0.01**	**0.01**	**593.49**

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 Mid Rise	4.3619	0.05	0.40	0.17	0.00		0.00	0.03		0.00	0.03		513.16		0.01	0.01	516.29
Other Non-Asphalt Surfaces	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
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	0.0260274	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		3.06		0.00	0.00	3.08
Total		**0.05**	**0.40**	**0.17**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**		**516.22**		**0.01**	**0.01**	**519.37**

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	lb/day										lb/day					
Mitigated	7.10	0.15	13.00	0.00		0.00	0.07		0.00	0.07	0.00	22.85		0.02	0.00	23.37
Unmitigated	7.10	0.15	13.00	0.00		0.00	0.07		0.00	0.07	0.00	22.85		0.02	0.00	23.37
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	1.13					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.54					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
Landscaping	0.42	0.15	13.00	0.00		0.00	0.07		0.00	0.07		22.85		0.02		23.37
Total	**7.09**	**0.15**	**13.00**	**0.00**		**0.00**	**0.07**		**0.00**	**0.07**	**0.00**	**22.85**		**0.02**	**0.00**	**23.37**

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	1.13					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.54					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
Landscaping	0.42	0.15	13.00	0.00		0.00	0.07		0.00	0.07		22.85		0.02		23.37
Total	**7.09**	**0.15**	**13.00**	**0.00**		**0.00**	**0.07**		**0.00**	**0.07**	**0.00**	**22.85**		**0.02**	**0.00**	**23.37**

SOCO Santa Fe Mixed Use - Fullerton

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Pharmacy/Drugstore w/o Drive Thru	5	1000sqft
Other Non-Asphalt Surfaces	6	1000sqft
Parking Structure	303	Space
Apartments Mid Rise	152	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			
			30		

1.3 User Entered Comments

Project Characteristics -

Land Use - Res and parking areas per project description (PD)
Res area includes clubhouse

Construction Phase - Construction phases and durations per PD
Demo no haul 6/1-7/19/12; haul-7/20-31/12
Grad haul-6/4-5/12; no haul 6/6-15/12
Util 6/18-8/17/12. Pave 8/20/12. Build 8/6/12-12/6/13. Paint 12/9/13-5/9/14.

Off-road Equipment - Building - 2 forklifts, 1 loader

Off-road Equipment - Demo - 2 excav, 1 loader

Off-road Equipment - All non-default const equip per applicant
Demo - 2 excav, 1 loader

Off-road Equipment - Grading - 1 loader, add 1 scraper

Off-road Equipment - Grading - 1 loader, add 1 scraper

Off-road Equipment - Pave - 1 paver, 1 roller, 1 loader

Off-road Equipment - Utilities - 1 excav, 2 loader/backhoe

Vehicle Trips - trip rates per LLG; all others default; no reduction for TOD

Mobile Land Use Mitigation - Traffic suburban ctr

Energy Mitigation -

Water Mitigation -

Off-road Equipment -

Grading - acreage pro-rate to grading days

Demolition - 8,840 CY asphalt & concrete = approx 16,000 tons

Trips and VMT - demo 630 RT per PD
export 125 RT per PD

Woodstoves - No fireplaces

Construction Off-road Equipment Mitigation - Dust control -water 2x/day
Graders, scrapers, dozers Tier 3

Area 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	0.32	2.14	2.04	0.00	0.40	0.12	0.52	0.05	0.12	0.17	0.00	328.05	328.05	0.03	0.00	328.58
2013	0.65	1.89	2.63	0.00	0.32	0.10	0.42	0.01	0.10	0.12	0.00	444.62	444.62	0.03	0.00	445.19
2014	1.78	0.14	0.18	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.00	27.26	27.26	0.00	0.00	27.31
Total	**2.75**	**4.17**	**4.85**	**0.00**	**0.74**	**0.23**	**0.97**	**0.06**	**0.23**	**0.30**	**0.00**	**799.93**	**799.93**	**0.06**	**0.00**	**801.08**

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	0.29	1.89	1.92	0.00	0.29	0.11	0.40	0.03	0.11	0.14	0.00	328.05	328.05	0.03	0.00	328.58
2013	0.65	1.89	2.63	0.00	0.32	0.10	0.42	0.01	0.10	0.12	0.00	444.62	444.62	0.03	0.00	445.19
2014	1.78	0.14	0.18	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.00	27.26	27.26	0.00	0.00	27.31
Total	**2.72**	**3.92**	**4.73**	**0.00**	**0.63**	**0.22**	**0.85**	**0.04**	**0.22**	**0.27**	**0.00**	**799.93**	**799.93**	**0.06**	**0.00**	**801.08**

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	1.30	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
Energy	0.01	0.08	0.04	0.00		0.00	0.01		0.00	0.01	0.00	271.56	271.56	0.01	0.00	273.24
Mobile	1.08	2.09	11.09	0.02	2.05	0.09	2.14	0.08	0.09	0.17	0.00	1,733.89	1,733.89	0.07	0.00	1,735.41
Waste						0.00	0.00		0.00	0.00	17.24	0.00	17.24	1.02	0.00	38.65
Water						0.00	0.00		0.00	0.00	0.00	59.83	59.83	0.32	0.01	69.19
Total	**2.39**	**2.20**	**13.50**	**0.02**	**2.05**	**0.09**	**2.16**	**0.08**	**0.09**	**0.19**	**17.24**	**2,069.06**	**2,086.30**	**1.42**	**0.01**	**2,120.36**

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	1.30	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
Energy	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	256.49	256.49	0.01	0.00	258.09
Mobile	1.01	1.92	10.21	0.02	1.84	0.09	1.93	0.07	0.09	0.15	0.00	1,564.44	1,564.44	0.07	0.00	1,565.82
Waste						0.00	0.00		0.00	0.00	17.24	0.00	17.24	1.02	0.00	38.65
Water						0.00	0.00		0.00	0.00	0.00	52.04	52.04	0.25	0.01	59.55
Total	**2.32**	**2.02**	**12.61**	**0.02**	**1.84**	**0.09**	**1.95**	**0.07**	**0.09**	**0.17**	**17.24**	**1,876.75**	**1,893.99**	**1.35**	**0.01**	**1,925.98**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - no haul - 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	0.05	0.34	0.24	0.00		0.02	0.02		0.02	0.02	0.00	35.00	35.00	0.00	0.00	35.08
Total	**0.05**	**0.34**	**0.24**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**35.00**	**35.00**	**0.00**	**0.00**	**35.08**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.00	0.00	1.51
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.51**	**1.51**	**0.00**	**0.00**	**1.51**

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	0.05	0.34	0.24	0.00		0.02	0.02		0.02	0.02	0.00	35.00	35.00	0.00	0.00	35.08
Total	**0.05**	**0.34**	**0.24**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**35.00**	**35.00**	**0.00**	**0.00**	**35.08**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.00	0.00	1.51
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.51**	**1.51**	**0.00**	**0.00**	**1.51**

3.3 Grading - cut/haul - 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					0.01	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	0.03	0.00		0.00	0.00		0.00	0.00	0.00	4.89	4.89	0.00	0.00	4.90
Total	**0.01**	**0.05**	**0.03**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**4.89**	**4.89**	**0.00**	**0.00**	**4.90**

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	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.00	0.00	4.58
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	0.11	0.11	0.00	0.00	0.11
Total	**0.00**	**0.03**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.69**	**4.69**	**0.00**	**0.00**	**4.69**

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	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	4.89	4.89	0.00	0.00	4.90
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.89**	**4.89**	**0.00**	**0.00**	**4.90**

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	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.58	4.58	0.00	0.00	4.58
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	0.11	0.11	0.00	0.00	0.11
Total	**0.00**	**0.03**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.69**	**4.69**	**0.00**	**0.00**	**4.69**

3.4 Grading - no haul - 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					0.03	0.00	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.03	0.22	0.11	0.00		0.01	0.01		0.01	0.01	0.00	19.56	19.56	0.00	0.00	19.60
Total	**0.03**	**0.22**	**0.11**	**0.00**	**0.03**	**0.01**	**0.04**	**0.01**	**0.01**	**0.02**	**0.00**	**19.56**	**19.56**	**0.00**	**0.00**	**19.60**

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	0.43	0.43	0.00	0.00	0.43
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.43**	**0.43**	**0.00**	**0.00**	**0.43**

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	0.01	0.00	0.01	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	19.56	19.56	0.00	0.00	19.60
Total	**0.00**	**0.01**	**0.01**	**0.00**	**0.01**	**0.00**	**0.01**	**0.01**	**0.00**	**0.01**	**0.00**	**19.56**	**19.56**	**0.00**	**0.00**	**19.60**

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	0.43	0.43	0.00	0.00	0.43
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.43**	**0.43**	**0.00**	**0.00**	**0.43**

3.5 Utilities - 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	0.05	0.35	0.25	0.00		0.03	0.03		0.03	0.03	0.00	35.15	35.15	0.00	0.00	35.23
Total	**0.05**	**0.35**	**0.25**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**35.15**	**35.15**	**0.00**	**0.00**	**35.23**

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	1.94	1.94	0.00	0.00	1.94
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.94**	**1.94**	**0.00**	**0.00**	**1.94**

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	0.05	0.35	0.25	0.00		0.03	0.03		0.03	0.03	0.00	35.15	35.15	0.00	0.00	35.23
Total	**0.05**	**0.35**	**0.25**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**35.15**	**35.15**	**0.00**	**0.00**	**35.23**

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	1.94	1.94	0.00	0.00	1.94
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.94**	**1.94**	**0.00**	**0.00**	**1.94**

3.6 Demolition - haul - 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					0.17	0.00	0.17	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	8.00	8.00	0.00	0.00	8.02
Total	**0.01**	**0.08**	**0.05**	**0.00**	**0.17**	**0.01**	**0.18**	**0.03**	**0.01**	**0.04**	**0.00**	**8.00**	**8.00**	**0.00**	**0.00**	**8.02**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.02	0.18	0.11	0.00	0.05	0.01	0.06	0.00	0.01	0.01	0.00	23.07	23.07	0.00	0.00	23.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.00	0.00	0.35
Total	**0.02**	**0.18**	**0.11**	**0.00**	**0.05**	**0.01**	**0.06**	**0.00**	**0.01**	**0.01**	**0.00**	**23.42**	**23.42**	**0.00**	**0.00**	**23.44**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.08	0.00	0.08	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.08	0.05	0.00		0.01	0.01		0.01	0.01	0.00	8.00	8.00	0.00	0.00	8.02
Total	**0.01**	**0.08**	**0.05**	**0.00**	**0.08**	**0.01**	**0.09**	**0.01**	**0.01**	**0.02**	**0.00**	**8.00**	**8.00**	**0.00**	**0.00**	**8.02**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.02	0.18	0.11	0.00	0.05	0.01	0.06	0.00	0.01	0.01	0.00	23.07	23.07	0.00	0.00	23.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.00	0.00	0.35
Total	**0.02**	**0.18**	**0.11**	**0.00**	**0.05**	**0.01**	**0.06**	**0.00**	**0.01**	**0.01**	**0.00**	**23.42**	**23.42**	**0.00**	**0.00**	**23.44**

3.7 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	0.07	0.50	0.36	0.00		0.03	0.03		0.03	0.03	0.00	52.54	52.54	0.01	0.00	52.66
Total	**0.07**	**0.50**	**0.36**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**52.54**	**52.54**	**0.01**	**0.00**	**52.66**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.33	0.24	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.00	47.64	47.64	0.00	0.00	47.67
Worker	0.05	0.06	0.60	0.00	0.12	0.00	0.12	0.00	0.00	0.01	0.00	92.59	92.59	0.01	0.00	92.71
Total	**0.08**	**0.39**	**0.84**	**0.00**	**0.14**	**0.01**	**0.15**	**0.00**	**0.01**	**0.02**	**0.00**	**140.23**	**140.23**	**0.01**	**0.00**	**140.38**

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	0.07	0.50	0.36	0.00		0.03	0.03		0.03	0.03	0.00	52.54	52.54	0.01	0.00	52.66
Total	**0.07**	**0.50**	**0.36**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**52.54**	**52.54**	**0.01**	**0.00**	**52.66**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.03	0.33	0.24	0.00	0.02	0.01	0.03	0.00	0.01	0.01	0.00	47.64	47.64	0.00	0.00	47.67
Worker	0.05	0.06	0.60	0.00	0.12	0.00	0.12	0.00	0.00	0.01	0.00	92.59	92.59	0.01	0.00	92.71
Total	**0.08**	**0.39**	**0.84**	**0.00**	**0.14**	**0.01**	**0.15**	**0.00**	**0.01**	**0.02**	**0.00**	**140.23**	**140.23**	**0.01**	**0.00**	**140.38**

3.7 Building Construction - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.15	1.05	0.82	0.00		0.07	0.07		0.07	0.07	0.00	120.95	120.95	0.01	0.00	121.20
Total	**0.15**	**1.05**	**0.82**	**0.00**		**0.07**	**0.07**		**0.07**	**0.07**	**0.00**	**120.95**	**120.95**	**0.01**	**0.00**	**121.20**

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	0.07	0.69	0.50	0.00	0.04	0.02	0.06	0.00	0.02	0.03	0.00	110.06	110.06	0.00	0.00	110.13
Worker	0.11	0.12	1.28	0.00	0.27	0.01	0.28	0.01	0.01	0.02	0.00	208.57	208.57	0.01	0.00	208.81
Total	**0.18**	**0.81**	**1.78**	**0.00**	**0.31**	**0.03**	**0.34**	**0.01**	**0.03**	**0.05**	**0.00**	**318.63**	**318.63**	**0.01**	**0.00**	**318.94**

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	0.15	1.05	0.82	0.00		0.07	0.07		0.07	0.07	0.00	120.95	120.95	0.01	0.00	121.20
Total	**0.15**	**1.05**	**0.82**	**0.00**		**0.07**	**0.07**		**0.07**	**0.07**	**0.00**	**120.95**	**120.95**	**0.01**	**0.00**	**121.20**

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	0.07	0.69	0.50	0.00	0.04	0.02	0.06	0.00	0.02	0.03	0.00	110.06	110.06	0.00	0.00	110.13
Worker	0.11	0.12	1.28	0.00	0.27	0.01	0.28	0.01	0.01	0.02	0.00	208.57	208.57	0.01	0.00	208.81
Total	**0.18**	**0.81**	**1.78**	**0.00**	**0.31**	**0.03**	**0.34**	**0.01**	**0.03**	**0.05**	**0.00**	**318.63**	**318.63**	**0.01**	**0.00**	**318.94**

3.8 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	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65
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**	**0.01**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.65**	**0.65**	**0.00**	**0.00**	**0.65**

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	0.04	0.04	0.00	0.00	0.04
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.04**	**0.04**	**0.00**	**0.00**	**0.04**

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	0.00	0.01	0.01	0.00		0.00	0.00		0.00	0.00	0.00	0.65	0.65	0.00	0.00	0.65
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**	**0.01**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.65**	**0.65**	**0.00**	**0.00**	**0.65**

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	0.04	0.04	0.00	0.00	0.04
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.04**	**0.04**	**0.00**	**0.00**	**0.04**

3.9 Architectural Coating - 2013

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.32					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.17	2.17	0.00	0.00	2.17
Total	**0.32**	**0.03**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**2.17**	**2.17**	**0.00**	**0.00**	**2.17**

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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.87**	**2.87**	**0.00**	**0.00**	**2.87**

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	0.32					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.03	0.02	0.00		0.00	0.00		0.00	0.00	0.00	2.17	2.17	0.00	0.00	2.17
Total	**0.32**	**0.03**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**2.17**	**2.17**	**0.00**	**0.00**	**2.17**

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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	2.87	0.00	0.00	2.87
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.87**	**2.87**	**0.00**	**0.00**	**2.87**

3.9 Architectural Coating - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.75					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.13	0.09	0.00		0.01	0.01		0.01	0.01	0.00	11.86	11.86	0.00	0.00	11.89
Total	**1.77**	**0.13**	**0.09**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**11.86**	**11.86**	**0.00**	**0.00**	**11.89**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.40	15.40	0.00	0.00	15.41
Total	**0.01**	**0.01**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**15.40**	**15.40**	**0.00**	**0.00**	**15.41**

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	1.75					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.02	0.13	0.09	0.00		0.01	0.01		0.01	0.01	0.00	11.86	11.86	0.00	0.00	11.89
Total	**1.77**	**0.13**	**0.09**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**11.86**	**11.86**	**0.00**	**0.00**	**11.89**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.01	0.01	0.09	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	15.40	15.40	0.00	0.00	15.41
Total	**0.01**	**0.01**	**0.09**	**0.00**	**0.02**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**15.40**	**15.40**	**0.00**	**0.00**	**15.41**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Increase Transit Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	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	1.01	1.92	10.21	0.02	1.84	0.09	1.93	0.07	0.09	0.15	0.00	1,564.44	1,564.44	0.07	0.00	1,565.82
Unmitigated	1.08	2.09	11.09	0.02	2.05	0.09	2.14	0.08	0.09	0.17	0.00	1,733.89	1,733.89	0.07	0.00	1,735.41
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,010.80	1,088.32	922.64	3,361,482	3,025,334
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Structure	0.00	0.00	0.00		
Pharmacy/Drugstore w/o Drive Thru	214.70	214.70	214.70	397,842	358,058
Total	1,225.50	1,303.02	1,137.34	3,759,324	3,383,392

4.3 Trip Type Information

	Miles			Trip %		
Land Use	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	12.70	7.00	9.50	40.20	19.20	40.60
Other Non-Asphalt Surfaces	8.90	13.30	7.40	0.00	0.00	0.00
Parking Structure	8.90	13.30	7.40	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	8.90	13.30	7.40	7.40	73.60	19.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	171.03	171.03	0.01	0.00	172.10
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	173.89	173.89	0.01	0.00	174.98
NaturalGas Mitigated	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	85.47	85.47	0.00	0.00	85.99
NaturalGas Unmitigated	0.01	0.08	0.04	0.00		0.00	0.01		0.00	0.01	0.00	97.67	97.67	0.00	0.00	98.26
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	1.81994e+006	0.01	0.08	0.04	0.00		0.00	0.01		0.00	0.01	0.00	97.12	97.12	0.00	0.00	97.71
Other Non-Asphalt Surfaces	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
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	10250	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.55	0.55	0.00	0.00	0.55
Total		**0.01**	**0.08**	**0.04**	**0.00**		**0.00**	**0.01**		**0.00**	**0.01**	**0.00**	**97.67**	**97.67**	**0.00**	**0.00**	**98.26**

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	1.59209e+006	0.01	0.07	0.03	0.00		0.00	0.01		0.00	0.01	0.00	84.96	84.96	0.00	0.00	85.48
Other Non-Asphalt Surfaces	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
Parking Structure	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	9500	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.51	0.51	0.00	0.00	0.51
Total		**0.01**	**0.07**	**0.03**	**0.00**		**0.00**	**0.01**		**0.00**	**0.01**	**0.00**	**85.47**	**85.47**	**0.00**	**0.00**	**85.99**

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	533829					155.28	0.01	0.00	156.25
Other Non-Asphalt Surfaces	0					0.00	0.00	0.00	0.00
Parking Structure	0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	64000					18.62	0.00	0.00	18.73
Total						**173.90**	**0.01**	**0.00**	**174.98**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	526665					153.19	0.01	0.00	154.15
Other Non-Asphalt Surfaces	0					0.00	0.00	0.00	0.00
Parking Structure	0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	61315					17.83	0.00	0.00	17.95
Total						**171.02**	**0.01**	**0.00**	**172.10**

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	1.30	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
Unmitigated	1.30	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
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	0.21					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.01					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	0.08	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
Total	**1.30**	**0.03**	**2.37**	**0.00**		**0.00**	**0.01**		**0.00**	**0.01**	**0.00**	**3.78**	**3.78**	**0.00**	**0.00**	**3.87**

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	0.21					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.01					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	0.08	0.03	2.37	0.00		0.00	0.01		0.00	0.01	0.00	3.78	3.78	0.00	0.00	3.87
Total	**1.30**	**0.03**	**2.37**	**0.00**		**0.00**	**0.01**		**0.00**	**0.01**	**0.00**	**3.78**	**3.78**	**0.00**	**0.00**	**3.87**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					52.04	0.25	0.01	59.55
Unmitigated					59.83	0.32	0.01	69.19
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	9.90341 / 6.24346					57.80	0.30	0.01	66.83
Other Non-Asphalt Surfaces	0 / 0					0.00	0.00	0.00	0.00
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	0.352238 / 0.215888					2.04	0.01	0.00	2.36
Total						**59.84**	**0.31**	**0.01**	**69.19**

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	7.92273 / 6.24346					50.27	0.24	0.01	57.52
Other Non-Asphalt Surfaces	0 / 0					0.00	0.00	0.00	0.00
Parking Structure	0 / 0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	0.28179 / 0.215888					1.77	0.01	0.00	2.03
Total						**52.04**	**0.25**	**0.01**	**59.55**

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					17.24	1.02	0.00	38.65
Unmitigated					17.24	1.02	0.00	38.65
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	69.92					14.19	0.84	0.00	31.81
Other Non-Asphalt Surfaces	0					0.00	0.00	0.00	0.00
Parking Structure	0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	15.03					3.05	0.18	0.00	6.84
Total						**17.24**	**1.02**	**0.00**	**38.65**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	69.92					14.19	0.84	0.00	31.81
Other Non-Asphalt Surfaces	0					0.00	0.00	0.00	0.00
Parking Structure	0					0.00	0.00	0.00	0.00
Pharmacy/Drugstore w/o Drive Thru	15.03					3.05	0.18	0.00	6.84
Total						**17.24**	**1.02**	**0.00**	**38.65**