Appendix 4A

Air Quality Modeling Results for FSP/SAC Infill Site

CDCR FSP SAC Single Facility

Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Hospital	257.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**		**Utility Company**	Sacramento Municipal Utility District
Climate Zone	6		3.5		
		Precipitation Freq (Days)			
			58		

1.3 User Entered Comments

Project Characteristics -

Land Use - Disturbance area - 52.83 acres

Construction Phase - 26 months construction schedule

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation
Off-road Equipment - Equipment information from client

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation
Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Off-road Equipment - ARB Off-Road Diesel Regulation

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Trips and VMT - Based on data from other CDCR projects

Grading - Data from CDCR

Vehicle Trips - Based on trip generation data

Architectural Coating - SMAQMD Rule 442 effective 1/1/2003 for non-flat coatings

Area Coating - SMAQMD Rule 442

Water And Wastewater - From utilities analysis

Solid Waste - From utilities analysis

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					
2014	21.75	147.31	122.16	0.25	58.14	6.62	64.76	7.06	6.62	13.68	0.00	25,611.24	0.00	1.91	0.00	25,651.42
2015	15.23	76.09	102.16	0.21	13.27	3.90	17.17	0.52	3.90	4.42	0.00	19,843.62	0.00	1.34	0.00	19,871.81
2016	45.81	66.18	92.60	0.19	12.23	4.26	16.50	0.47	4.26	4.73	0.00	17,530.39	0.00	1.26	0.00	17,556.77
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					
2014	21.75	147.31	122.16	0.25	47.25	6.62	53.86	3.02	6.62	9.64	0.00	25,611.24	0.00	1.91	0.00	25,651.42
2015	15.23	76.09	102.16	0.21	13.27	3.90	17.17	0.52	3.90	4.42	0.00	19,843.62	0.00	1.34	0.00	19,871.81
2016	45.81	66.18	92.60	0.19	12.23	4.26	16.50	0.47	4.26	4.73	0.00	17,530.39	0.00	1.26	0.00	17,556.77
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Mobile	2.54	4.61	21.59	0.05	5.02	0.20	5.23	0.17	0.20	0.38		4,186.48		0.16		4,189.91
Total	**9.72**	**9.31**	**25.54**	**0.08**	**5.02**	**0.20**	**5.59**	**0.17**	**0.20**	**0.74**		**9,823.64**		**0.27**	**0.10**	**9,861.38**

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	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Mobile	2.54	4.61	21.59	0.05	5.02	0.20	5.23	0.17	0.20	0.38		4,186.48		0.16		4,189.91
Total	**9.72**	**9.31**	**25.54**	**0.08**	**5.02**	**0.20**	**5.59**	**0.17**	**0.20**	**0.74**		**9,823.64**		**0.27**	**0.10**	**9,861.38**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition and Site Preparation - 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					
Fugitive Dust					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	7.21	57.28	32.36	0.07		2.79	2.79		2.79	2.79		7,077.71		0.64		7,091.22
Total	**7.21**	**57.28**	**32.36**	**0.07**	**1.30**	**2.79**	**4.09**	**0.00**	**2.79**	**2.79**		**7,077.71**		**0.64**		**7,091.22**

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	0.31	3.12	2.17	0.01	7.00	0.10	7.10	0.02	0.10	0.12		569.11		0.02		569.43
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	1.45	1.29	14.63	0.03	3.39	0.09	3.48	0.13	0.09	0.21		2,561.27		0.13		2,564.07
Total	**1.76**	**4.41**	**16.80**	**0.04**	**10.39**	**0.19**	**10.58**	**0.15**	**0.19**	**0.33**		**3,130.38**		**0.15**		**3,133.50**

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					0.51	0.00	0.51	0.00	0.00	0.00						0.00
Off-Road	7.21	57.28	32.36	0.07		2.79	2.79		2.79	2.79	0.00	7,077.71		0.64		7,091.22
Total	**7.21**	**57.28**	**32.36**	**0.07**	**0.51**	**2.79**	**3.30**	**0.00**	**2.79**	**2.79**	**0.00**	**7,077.71**		**0.64**		**7,091.22**

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	0.31	3.12	2.17	0.01	7.00	0.10	7.10	0.02	0.10	0.12		569.11		0.02		569.43
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	1.45	1.29	14.63	0.03	3.39	0.09	3.48	0.13	0.09	0.21		2,561.27		0.13		2,564.07
Total	**1.76**	**4.41**	**16.80**	**0.04**	**10.39**	**0.19**	**10.58**	**0.15**	**0.19**	**0.33**		**3,130.38**		**0.15**		**3,133.50**

3.3 Grading - 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					
Fugitive Dust					16.56	0.00	16.56	6.63	0.00	6.63						0.00
Off-Road	9.28	76.23	39.82	0.08		3.24	3.24		3.24	3.24		9,176.32		0.83		9,193.75
Total	**9.28**	**76.23**	**39.82**	**0.08**	**16.56**	**3.24**	**19.80**	**6.63**	**3.24**	**9.87**		**9,176.32**		**0.83**		**9,193.75**

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	0.69	6.88	4.78	0.01	23.31	0.23	23.54	0.04	0.23	0.27		1,254.95		0.03		1,255.66
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	2.81	2.50	28.40	0.05	6.58	0.17	6.75	0.25	0.17	0.41		4,971.88		0.26		4,977.31
Total	**3.50**	**9.38**	**33.18**	**0.06**	**29.89**	**0.40**	**30.29**	**0.29**	**0.40**	**0.68**		**6,226.83**		**0.29**		**6,232.97**

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					6.46	0.00	6.46	2.58	0.00	2.58						0.00
Off-Road	9.28	76.23	39.82	0.08		3.24	3.24		3.24	3.24	0.00	9,176.32		0.83		9,193.75
Total	**9.28**	**76.23**	**39.82**	**0.08**	**6.46**	**3.24**	**9.70**	**2.58**	**3.24**	**5.82**	**0.00**	**9,176.32**		**0.83**		**9,193.75**

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	0.69	6.88	4.78	0.01	23.31	0.23	23.54	0.04	0.23	0.27		1,254.95		0.03		1,255.66
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	2.81	2.50	28.40	0.05	6.58	0.17	6.75	0.25	0.17	0.41		4,971.88		0.26		4,977.31
Total	**3.50**	**9.38**	**33.18**	**0.06**	**29.89**	**0.40**	**30.29**	**0.29**	**0.40**	**0.68**		**6,226.83**		**0.29**		**6,232.97**

3.4 Utilities - 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					
Off-Road	3.23	25.68	15.58	0.03		1.17	1.17		1.17	1.17		3,068.15		0.29		3,074.21
Total	**3.23**	**25.68**	**15.58**	**0.03**		**1.17**	**1.17**		**1.17**	**1.17**		**3,068.15**		**0.29**		**3,074.21**

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	0.37	3.58	2.80	0.01	0.25	0.11	0.36	0.02	0.11	0.13		721.25		0.02		721.61
Worker	0.33	0.30	3.36	0.01	0.78	0.02	0.80	0.03	0.02	0.05		588.96		0.03		589.60
Total	**0.70**	**3.88**	**6.16**	**0.02**	**1.03**	**0.13**	**1.16**	**0.05**	**0.13**	**0.18**		**1,310.21**		**0.05**		**1,311.21**

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	3.23	25.68	15.58	0.03		1.17	1.17		1.17	1.17	0.00	3,068.15		0.29		3,074.21
Total	**3.23**	**25.68**	**15.58**	**0.03**		**1.17**	**1.17**		**1.17**	**1.17**	**0.00**	**3,068.15**		**0.29**		**3,074.21**

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	0.37	3.58	2.80	0.01	0.25	0.11	0.36	0.02	0.11	0.13		721.25		0.02		721.61
Worker	0.33	0.30	3.36	0.01	0.78	0.02	0.80	0.03	0.02	0.05		588.96		0.03		589.60
Total	**0.70**	**3.88**	**6.16**	**0.02**	**1.03**	**0.13**	**1.16**	**0.05**	**0.13**	**0.18**		**1,310.21**		**0.05**		**1,311.21**

3.4 Utilities - 2015

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	3.05	23.49	15.10	0.03		1.06	1.06		1.06	1.06		3,068.15		0.27		3,073.89
Total	**3.05**	**23.49**	**15.10**	**0.03**		**1.06**	**1.06**		**1.06**	**1.06**		**3,068.15**		**0.27**		**3,073.89**

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	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	0.33	3.25	2.51	0.01	0.25	0.10	0.35	0.02	0.10	0.12		723.26		0.02		723.59
Worker	0.31	0.27	3.06	0.01	0.78	0.02	0.80	0.03	0.02	0.05		574.81		0.03		575.40
Total	**0.64**	**3.52**	**5.57**	**0.02**	**1.03**	**0.12**	**1.15**	**0.05**	**0.12**	**0.17**		**1,298.07**		**0.05**		**1,298.99**

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	3.05	23.49	15.10	0.03		1.06	1.06		1.06	1.06	0.00	3,068.15		0.27		3,073.89
Total	**3.05**	**23.49**	**15.10**	**0.03**		**1.06**	**1.06**		**1.06**	**1.06**	**0.00**	**3,068.15**		**0.27**		**3,073.89**

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	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	0.33	3.25	2.51	0.01	0.25	0.10	0.35	0.02	0.10	0.12		723.26		0.02		723.59
Worker	0.31	0.27	3.06	0.01	0.78	0.02	0.80	0.03	0.02	0.05		574.81		0.03		575.40
Total	**0.64**	**3.52**	**5.57**	**0.02**	**1.03**	**0.12**	**1.15**	**0.05**	**0.12**	**0.17**		**1,298.07**		**0.05**		**1,298.99**

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.04	45.79	32.40	0.06		2.58	2.58		2.58	2.58		5,918.17		0.63		5,931.35
Total	**7.04**	**45.79**	**32.40**	**0.06**		**2.58**	**2.58**		**2.58**	**2.58**		**5,918.17**		**0.63**		**5,931.35**

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	0.37	3.58	2.80	0.01	0.25	0.11	0.36	0.02	0.11	0.13		721.25		0.02		721.61
Worker	5.12	4.56	51.72	0.10	11.98	0.31	12.29	0.45	0.31	0.75		9,053.48		0.47		9,063.37
Total	**5.49**	**8.14**	**54.52**	**0.11**	**12.23**	**0.42**	**12.65**	**0.47**	**0.42**	**0.88**		**9,774.73**		**0.49**		**9,784.98**

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	7.04	45.79	32.40	0.06		2.58	2.58		2.58	2.58	0.00	5,918.17		0.63		5,931.35
Total	**7.04**	**45.79**	**32.40**	**0.06**		**2.58**	**2.58**		**2.58**	**2.58**	**0.00**	**5,918.17**		**0.63**		**5,931.35**

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	0.37	3.58	2.80	0.01	0.25	0.11	0.36	0.02	0.11	0.13		721.25		0.02		721.61
Worker	5.12	4.56	51.72	0.10	11.98	0.31	12.29	0.45	0.31	0.75		9,053.48		0.47		9,063.37
Total	**5.49**	**8.14**	**54.52**	**0.11**	**12.23**	**0.42**	**12.65**	**0.47**	**0.42**	**0.88**		**9,774.73**		**0.49**		**9,784.98**

3.5 Building Construction - 2015

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	6.45	41.74	31.97	0.06		2.32	2.32		2.32	2.32		5,918.17		0.58		5,930.31
Total	**6.45**	**41.74**	**31.97**	**0.06**		**2.32**	**2.32**		**2.32**	**2.32**		**5,918.17**		**0.58**		**5,930.31**

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	0.33	3.25	2.51	0.01	0.25	0.10	0.35	0.02	0.10	0.12		723.26		0.02		723.59
Worker	4.75	4.10	47.00	0.10	11.98	0.31	12.29	0.45	0.31	0.75		8,835.98		0.43		8,845.04
Total	**5.08**	**7.35**	**49.51**	**0.11**	**12.23**	**0.41**	**12.64**	**0.47**	**0.41**	**0.87**		**9,559.24**		**0.45**		**9,568.63**

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					
Off-Road	6.45	41.74	31.97	0.06		2.32	2.32		2.32	2.32	0.00	5,918.17		0.58		5,930.31
Total	**6.45**	**41.74**	**31.97**	**0.06**		**2.32**	**2.32**		**2.32**	**2.32**	**0.00**	**5,918.17**		**0.58**		**5,930.31**

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	0.33	3.25	2.51	0.01	0.25	0.10	0.35	0.02	0.10	0.12		723.26		0.02		723.59
Worker	4.75	4.10	47.00	0.10	11.98	0.31	12.29	0.45	0.31	0.75		8,835.98		0.43		8,845.04
Total	**5.08**	**7.35**	**49.51**	**0.11**	**12.23**	**0.41**	**12.64**	**0.47**	**0.41**	**0.87**		**9,559.24**		**0.45**		**9,568.63**

3.5 Building Construction - 2016

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	5.92	37.99	31.60	0.06		2.07	2.07		2.07	2.07		5,918.17		0.53		5,929.26
Total	**5.92**	**37.99**	**31.60**	**0.06**		**2.07**	**2.07**		**2.07**	**2.07**		**5,918.17**		**0.53**		**5,929.26**

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	0.30	2.96	2.23	0.01	0.25	0.09	0.34	0.02	0.09	0.11		725.44		0.01		725.75
Worker	4.44	3.72	43.07	0.10	11.98	0.31	12.29	0.45	0.31	0.76		8,626.45		0.40		8,634.87
Total	**4.74**	**6.68**	**45.30**	**0.11**	**12.23**	**0.40**	**12.63**	**0.47**	**0.40**	**0.87**		**9,351.89**		**0.41**		**9,360.62**

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	5.92	37.99	31.60	0.06		2.07	2.07		2.07	2.07	0.00	5,918.17		0.53		5,929.26
Total	**5.92**	**37.99**	**31.60**	**0.06**		**2.07**	**2.07**		**2.07**	**2.07**	**0.00**	**5,918.17**		**0.53**		**5,929.26**

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	0.30	2.96	2.23	0.01	0.25	0.09	0.34	0.02	0.09	0.11		725.44		0.01		725.75
Worker	4.44	3.72	43.07	0.10	11.98	0.31	12.29	0.45	0.31	0.76		8,626.45		0.40		8,634.87
Total	**4.74**	**6.68**	**45.30**	**0.11**	**12.23**	**0.40**	**12.63**	**0.47**	**0.40**	**0.87**		**9,351.89**		**0.41**		**9,360.62**

3.6 Paving - 2016

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	3.11	19.14	13.82	0.02		1.60	1.60		1.60	1.60		1,979.14		0.28		1,985.01
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.11**	**19.14**	**13.82**	**0.02**		**1.60**	**1.60**		**1.60**	**1.60**		**1,979.14**		**0.28**		**1,985.01**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.11	19.14	13.82	0.02		1.60	1.60		1.60	1.60	0.00	1,979.14		0.28		1,985.01
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.11**	**19.14**	**13.82**	**0.02**		**1.60**	**1.60**		**1.60**	**1.60**	**0.00**	**1,979.14**		**0.28**		**1,985.01**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

3.7 Architectural Coating - 2016

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	31.67					0.00	0.00		0.00	0.00						0.00
Off-Road	0.37	2.37	1.88	0.00		0.20	0.20		0.20	0.20		281.19		0.03		281.89
Total	**32.04**	**2.37**	**1.88**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**		**281.19**		**0.03**		**281.89**

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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.67					0.00	0.00		0.00	0.00						0.00
Off-Road	0.37	2.37	1.88	0.00		0.20	0.20		0.20	0.20	0.00	281.19		0.03		281.89
Total	**32.04**	**2.37**	**1.88**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**	**0.00**	**281.19**		**0.03**		**281.89**

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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.54	4.61	21.59	0.05	5.02	0.20	5.23	0.17	0.20	0.38		4,186.48		0.16		4,189.91
Unmitigated	2.54	4.61	21.59	0.05	5.02	0.20	5.23	0.17	0.20	0.38		4,186.48		0.16		4,189.91
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
Hospital	397.20	397.20	397.20	1,517,893	1,517,893
Total	397.20	397.20	397.20	1,517,893	1,517,893

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
Hospital	15.00	10.00	10.00	64.90	16.10	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	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
NaturalGas Unmitigated	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
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					
Hospital	47915.8	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Total		**0.52**	**4.70**	**3.95**	**0.03**		**0.00**	**0.36**		**0.00**	**0.36**		**5,637.16**		**0.11**	**0.10**	**5,671.47**

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					
Hospital	47.9158	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Total		**0.52**	**4.70**	**3.95**	**0.03**		**0.00**	**0.36**		**0.00**	**0.36**		**5,637.16**		**0.11**	**0.10**	**5,671.47**

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	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	1.15					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.52					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**6.67**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

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	1.15					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.52					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**6.67**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

CDCR FSP SAC Single Facility

Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Hospital	257.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**		**Utility Company**	Sacramento Municipal Utility District
Climate Zone	6		3.5		
		Precipitation Freq (Days)			
			58		

1.3 User Entered Comments

Project Characteristics -

Land Use - Disturbance area - 52.83 acres

Construction Phase - 26 months construction schedule

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Off-road Equipment - Equipment information from client

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Off-road Equipment - ARB Off-Road Diesel Regulation

Off-road Equipment - Equipment list from CDCR
Load factors adjusted based on ARB off-road diesel regulation

Trips and VMT - Based on data from other CDCR projects

Grading - Data from CDCR

Vehicle Trips - Based on trip generation data

Architectural Coating - SMAQMD Rule 442 effective 1/1/2003 for non-flat coatings

Area Coating - SMAQMD Rule 442

Water And Wastewater - From utilities analysis

Solid Waste - From utilities analysis

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					
2014	21.91	147.87	117.30	0.24	58.14	6.62	64.76	7.06	6.62	13.68	0.00	24,578.18	0.00	1.88	0.00	24,617.66
2015	15.40	76.59	96.22	0.19	13.27	3.91	17.17	0.52	3.91	4.42	0.00	18,552.38	0.00	1.30	0.00	18,579.76
2016	45.93	66.55	87.05	0.17	12.23	4.26	16.50	0.47	4.26	4.73	0.00	16,347.79	0.00	1.22	0.00	16,373.35
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					
2014	21.91	147.87	117.30	0.24	47.25	6.62	53.87	3.02	6.62	9.64	0.00	24,578.18	0.00	1.88	0.00	24,617.66
2015	15.40	76.59	96.22	0.19	13.27	3.91	17.17	0.52	3.91	4.42	0.00	18,552.38	0.00	1.30	0.00	18,579.76
2016	45.93	66.55	87.05	0.17	12.23	4.26	16.50	0.47	4.26	4.73	0.00	16,347.79	0.00	1.22	0.00	16,373.35
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Mobile	2.57	4.84	20.22	0.04	5.02	0.21	5.23	0.17	0.21	0.38		3,741.18		0.14		3,744.10
Total	**9.75**	**9.54**	**24.17**	**0.07**	**5.02**	**0.21**	**5.59**	**0.17**	**0.21**	**0.74**		**9,378.34**		**0.25**	**0.10**	**9,415.57**

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	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Mobile	2.57	4.84	20.22	0.04	5.02	0.21	5.23	0.17	0.21	0.38		3,741.18		0.14		3,744.10
Total	**9.75**	**9.54**	**24.17**	**0.07**	**5.02**	**0.21**	**5.59**	**0.17**	**0.21**	**0.74**		**9,378.34**		**0.25**	**0.10**	**9,415.57**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition and Site Preparation - 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					
Fugitive Dust					1.30	0.00	1.30	0.00	0.00	0.00						0.00
Off-Road	7.21	57.28	32.36	0.07		2.79	2.79		2.79	2.79		7,077.71		0.64		7,091.22
Total	**7.21**	**57.28**	**32.36**	**0.07**	**1.30**	**2.79**	**4.09**	**0.00**	**2.79**	**2.79**		**7,077.71**		**0.64**		**7,091.22**

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	0.33	3.19	2.43	0.01	7.00	0.10	7.10	0.02	0.10	0.12		566.79		0.02		567.13
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	1.48	1.40	12.69	0.02	3.39	0.09	3.48	0.13	0.09	0.21		2,212.56		0.12		2,215.09
Total	**1.81**	**4.59**	**15.12**	**0.03**	**10.39**	**0.19**	**10.58**	**0.15**	**0.19**	**0.33**		**2,779.35**		**0.14**		**2,782.22**

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					0.51	0.00	0.51	0.00	0.00	0.00						0.00
Off-Road	7.21	57.28	32.36	0.07		2.79	2.79		2.79	2.79	0.00	7,077.71		0.64		7,091.22
Total	**7.21**	**57.28**	**32.36**	**0.07**	**0.51**	**2.79**	**3.30**	**0.00**	**2.79**	**2.79**	**0.00**	**7,077.71**		**0.64**		**7,091.22**

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	0.33	3.19	2.43	0.01	7.00	0.10	7.10	0.02	0.10	0.12		566.79		0.02		567.13
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	1.48	1.40	12.69	0.02	3.39	0.09	3.48	0.13	0.09	0.21		2,212.56		0.12		2,215.09
Total	**1.81**	**4.59**	**15.12**	**0.03**	**10.39**	**0.19**	**10.58**	**0.15**	**0.19**	**0.33**		**2,779.35**		**0.14**		**2,782.22**

3.3 Grading - 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					
Fugitive Dust					16.56	0.00	16.56	6.63	0.00	6.63						0.00
Off-Road	9.28	76.23	39.82	0.08		3.24	3.24		3.24	3.24		9,176.32		0.83		9,193.75
Total	**9.28**	**76.23**	**39.82**	**0.08**	**16.56**	**3.24**	**19.80**	**6.63**	**3.24**	**9.87**		**9,176.32**		**0.83**		**9,193.75**

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	0.74	7.04	5.37	0.01	23.31	0.23	23.54	0.04	0.23	0.27		1,249.83		0.04		1,250.60
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	2.87	2.72	24.64	0.05	6.58	0.17	6.75	0.25	0.17	0.41		4,294.97		0.23		4,299.88
Total	**3.61**	**9.76**	**30.01**	**0.06**	**29.89**	**0.40**	**30.29**	**0.29**	**0.40**	**0.68**		**5,544.80**		**0.27**		**5,550.48**

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					6.46	0.00	6.46	2.58	0.00	2.58						0.00
Off-Road	9.28	76.23	39.82	0.08		3.24	3.24		3.24	3.24	0.00	9,176.32		0.83		9,193.75
Total	**9.28**	**76.23**	**39.82**	**0.08**	**6.46**	**3.24**	**9.70**	**2.58**	**3.24**	**5.82**	**0.00**	**9,176.32**		**0.83**		**9,193.75**

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	0.74	7.04	5.37	0.01	23.31	0.23	23.54	0.04	0.23	0.27		1,249.83		0.04		1,250.60
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	2.87	2.72	24.64	0.05	6.58	0.17	6.75	0.25	0.17	0.41		4,294.97		0.23		4,299.88
Total	**3.61**	**9.76**	**30.01**	**0.06**	**29.89**	**0.40**	**30.29**	**0.29**	**0.40**	**0.68**		**5,544.80**		**0.27**		**5,550.48**

3.4 Utilities - 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					
Off-Road	3.23	25.68	15.58	0.03		1.17	1.17		1.17	1.17		3,068.15		0.29		3,074.21
Total	**3.23**	**25.68**	**15.58**	**0.03**		**1.17**	**1.17**		**1.17**	**1.17**		**3,068.15**		**0.29**		**3,074.21**

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	0.40	3.65	3.24	0.01	0.25	0.11	0.36	0.02	0.11	0.13		717.92		0.02		718.33
Worker	0.34	0.32	2.92	0.01	0.78	0.02	0.80	0.03	0.02	0.05		508.77		0.03		509.35
Total	**0.74**	**3.97**	**6.16**	**0.02**	**1.03**	**0.13**	**1.16**	**0.05**	**0.13**	**0.18**		**1,226.69**		**0.05**		**1,227.68**

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	3.23	25.68	15.58	0.03		1.17	1.17		1.17	1.17	0.00	3,068.15		0.29		3,074.21
Total	**3.23**	**25.68**	**15.58**	**0.03**		**1.17**	**1.17**		**1.17**	**1.17**	**0.00**	**3,068.15**		**0.29**		**3,074.21**

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	0.40	3.65	3.24	0.01	0.25	0.11	0.36	0.02	0.11	0.13		717.92		0.02		718.33
Worker	0.34	0.32	2.92	0.01	0.78	0.02	0.80	0.03	0.02	0.05		508.77		0.03		509.35
Total	**0.74**	**3.97**	**6.16**	**0.02**	**1.03**	**0.13**	**1.16**	**0.05**	**0.13**	**0.18**		**1,226.69**		**0.05**		**1,227.68**

3.4 Utilities - 2015

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	3.05	23.49	15.10	0.03		1.06	1.06		1.06	1.06		3,068.15		0.27		3,073.89
Total	**3.05**	**23.49**	**15.10**	**0.03**		**1.06**	**1.06**		**1.06**	**1.06**		**3,068.15**		**0.27**		**3,073.89**

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	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	0.37	3.31	2.94	0.01	0.25	0.10	0.35	0.02	0.10	0.12		719.78		0.02		720.15
Worker	0.32	0.29	2.64	0.01	0.78	0.02	0.80	0.03	0.02	0.05		496.36		0.03		496.90
Total	**0.69**	**3.60**	**5.58**	**0.02**	**1.03**	**0.12**	**1.15**	**0.05**	**0.12**	**0.17**		**1,216.14**		**0.05**		**1,217.05**

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	3.05	23.49	15.10	0.03		1.06	1.06		1.06	1.06	0.00	3,068.15		0.27		3,073.89
Total	**3.05**	**23.49**	**15.10**	**0.03**		**1.06**	**1.06**		**1.06**	**1.06**	**0.00**	**3,068.15**		**0.27**		**3,073.89**

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	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	0.37	3.31	2.94	0.01	0.25	0.10	0.35	0.02	0.10	0.12		719.78		0.02		720.15
Worker	0.32	0.29	2.64	0.01	0.78	0.02	0.80	0.03	0.02	0.05		496.36		0.03		496.90
Total	**0.69**	**3.60**	**5.58**	**0.02**	**1.03**	**0.12**	**1.15**	**0.05**	**0.12**	**0.17**		**1,216.14**		**0.05**		**1,217.05**

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.04	45.79	32.40	0.06		2.58	2.58		2.58	2.58		5,918.17		0.63		5,931.35
Total	**7.04**	**45.79**	**32.40**	**0.06**		**2.58**	**2.58**		**2.58**	**2.58**		**5,918.17**		**0.63**		**5,931.35**

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	0.40	3.65	3.24	0.01	0.25	0.11	0.36	0.02	0.11	0.13		717.92		0.02		718.33
Worker	5.23	4.96	44.86	0.08	11.98	0.31	12.29	0.45	0.31	0.75		7,820.86		0.43		7,829.81
Total	**5.63**	**8.61**	**48.10**	**0.09**	**12.23**	**0.42**	**12.65**	**0.47**	**0.42**	**0.88**		**8,538.78**		**0.45**		**8,548.14**

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	7.04	45.79	32.40	0.06		2.58	2.58		2.58	2.58	0.00	5,918.17		0.63		5,931.35
Total	**7.04**	**45.79**	**32.40**	**0.06**		**2.58**	**2.58**		**2.58**	**2.58**	**0.00**	**5,918.17**		**0.63**		**5,931.35**

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	0.40	3.65	3.24	0.01	0.25	0.11	0.36	0.02	0.11	0.13		717.92		0.02		718.33
Worker	5.23	4.96	44.86	0.08	11.98	0.31	12.29	0.45	0.31	0.75		7,820.86		0.43		7,829.81
Total	**5.63**	**8.61**	**48.10**	**0.09**	**12.23**	**0.42**	**12.65**	**0.47**	**0.42**	**0.88**		**8,538.78**		**0.45**		**8,548.14**

3.5 Building Construction - 2015

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	6.45	41.74	31.97	0.06		2.32	2.32		2.32	2.32		5,918.17		0.58		5,930.31
Total	**6.45**	**41.74**	**31.97**	**0.06**		**2.32**	**2.32**		**2.32**	**2.32**		**5,918.17**		**0.58**		**5,930.31**

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	0.37	3.31	2.94	0.01	0.25	0.10	0.35	0.02	0.10	0.12		719.78		0.02		720.15
Worker	4.85	4.46	40.62	0.08	11.98	0.31	12.29	0.45	0.31	0.75		7,630.14		0.39		7,638.37
Total	**5.22**	**7.77**	**43.56**	**0.09**	**12.23**	**0.41**	**12.64**	**0.47**	**0.41**	**0.87**		**8,349.92**		**0.41**		**8,358.52**

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	6.45	41.74	31.97	0.06		2.32	2.32		2.32	2.32	0.00	5,918.17		0.58		5,930.31
Total	**6.45**	**41.74**	**31.97**	**0.06**		**2.32**	**2.32**		**2.32**	**2.32**	**0.00**	**5,918.17**		**0.58**		**5,930.31**

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	0.37	3.31	2.94	0.01	0.25	0.10	0.35	0.02	0.10	0.12		719.78		0.02		720.15
Worker	4.85	4.46	40.62	0.08	11.98	0.31	12.29	0.45	0.31	0.75		7,630.14		0.39		7,638.37
Total	**5.22**	**7.77**	**43.56**	**0.09**	**12.23**	**0.41**	**12.64**	**0.47**	**0.41**	**0.87**		**8,349.92**		**0.41**		**8,358.52**

3.5 Building Construction - 2016

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	5.92	37.99	31.60	0.06		2.07	2.07		2.07	2.07		5,918.17		0.53		5,929.26
Total	**5.92**	**37.99**	**31.60**	**0.06**		**2.07**	**2.07**		**2.07**	**2.07**		**5,918.17**		**0.53**		**5,929.26**

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	0.33	3.01	2.66	0.01	0.25	0.09	0.34	0.02	0.09	0.11		721.78		0.02		722.12
Worker	4.54	4.04	37.08	0.08	11.98	0.31	12.29	0.45	0.31	0.76		7,447.51		0.36		7,455.08
Total	**4.87**	**7.05**	**39.74**	**0.09**	**12.23**	**0.40**	**12.63**	**0.47**	**0.40**	**0.87**		**8,169.29**		**0.38**		**8,177.20**

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	5.92	37.99	31.60	0.06		2.07	2.07		2.07	2.07	0.00	5,918.17		0.53		5,929.26
Total	**5.92**	**37.99**	**31.60**	**0.06**		**2.07**	**2.07**		**2.07**	**2.07**	**0.00**	**5,918.17**		**0.53**		**5,929.26**

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	0.33	3.01	2.66	0.01	0.25	0.09	0.34	0.02	0.09	0.11		721.78		0.02		722.12
Worker	4.54	4.04	37.08	0.08	11.98	0.31	12.29	0.45	0.31	0.76		7,447.51		0.36		7,455.08
Total	**4.87**	**7.05**	**39.74**	**0.09**	**12.23**	**0.40**	**12.63**	**0.47**	**0.40**	**0.87**		**8,169.29**		**0.38**		**8,177.20**

3.6 Paving - 2016

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	3.11	19.14	13.82	0.02		1.60	1.60		1.60	1.60		1,979.14		0.28		1,985.01
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.11**	**19.14**	**13.82**	**0.02**		**1.60**	**1.60**		**1.60**	**1.60**		**1,979.14**		**0.28**		**1,985.01**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.11	19.14	13.82	0.02		1.60	1.60		1.60	1.60	0.00	1,979.14		0.28		1,985.01
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.11**	**19.14**	**13.82**	**0.02**		**1.60**	**1.60**		**1.60**	**1.60**	**0.00**	**1,979.14**		**0.28**		**1,985.01**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

3.7 Architectural Coating - 2016

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	31.67					0.00	0.00		0.00	0.00						0.00
Off-Road	0.37	2.37	1.88	0.00		0.20	0.20		0.20	0.20		281.19		0.03		281.89
Total	**32.04**	**2.37**	**1.88**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**		**281.19**		**0.03**		**281.89**

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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.67					0.00	0.00		0.00	0.00						0.00
Off-Road	0.37	2.37	1.88	0.00		0.20	0.20		0.20	0.20	0.00	281.19		0.03		281.89
Total	**32.04**	**2.37**	**1.88**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**	**0.00**	**281.19**		**0.03**		**281.89**

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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.57	4.84	20.22	0.04	5.02	0.21	5.23	0.17	0.21	0.38		3,741.18		0.14		3,744.10
Unmitigated	2.57	4.84	20.22	0.04	5.02	0.21	5.23	0.17	0.21	0.38		3,741.18		0.14		3,744.10
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
Hospital	397.20	397.20	397.20	1,517,893	1,517,893
Total	397.20	397.20	397.20	1,517,893	1,517,893

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
Hospital	15.00	10.00	10.00	64.90	16.10	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	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
NaturalGas Unmitigated	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
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					
Hospital	47915.8	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Total		**0.52**	**4.70**	**3.95**	**0.03**		**0.00**	**0.36**		**0.00**	**0.36**		**5,637.16**		**0.11**	**0.10**	**5,671.47**

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					
Hospital	47.9158	0.52	4.70	3.95	0.03		0.00	0.36		0.00	0.36		5,637.16		0.11	0.10	5,671.47
Total		**0.52**	**4.70**	**3.95**	**0.03**		**0.00**	**0.36**		**0.00**	**0.36**		**5,637.16**		**0.11**	**0.10**	**5,671.47**

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	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	6.66	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	1.15					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.52					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**6.67**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

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	1.15					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.52					0.00	0.00		0.00	0.00						0.00
Landscaping	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Total	**6.67**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**		**0.00**		**0.00**		**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Paving VOC Emissions

FSP SAC

52.83	acres	
10.57	acres	Area paved: 20%
2.62	lb VOC/acre	Paving Emission Factor
27.68	lb VOC	
0.21	lb VOC/day	

Notes:

lb = pounds

VOC = Volatile organic compound

TIPS FOR USE:

1. For both residential and non-residential acreage entries EXCLUDE ONLY undisturbed (not graded) Open Space.
2. Append this calculation sheet to the environmental document.
3. Unmitigated NOx (lbs/day) and duration (days) should be consistent with URBEMIS results.
4. Activity Phase/Time Slice identifiers include the date range from the URBEMIS results and phases included, i.e. fine grading, asphalt, etc.

Construction Emissons Mitigation Fee Calculation

PART 1: PROJECT INFORMATION

Project Name:	CDCR Level II Infill Correction Facilities at California State Prison Sacramento/Folsom State Prison		
Control/Application #:			
Single Family Dwelling Units:		*Note: Enter information only in blue bordered cells*	
Multi Family Dwelling Units:		Total Residential Acreage:	
Non-residential Square Feet:	257,916	Total Non-residential Acreage:	52.83

PART 2: EMISSIONS INFORMATION

Year	Activity Phase	NOx (lbs/day) unmitigated	NOx (lbs/day) mitigated*	NOx over threshold (lbs/day)	duration (days)	Total significant NOx (lbs)
	Demolition (on road)	14.35				
	Demolition (off road)	133.60	106.88			
	TOTAL Demolition	147.95	121.23	36.23	21	760.83
	Note: Calculation applies to grading		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Time Slice: *(enter identifiers)*		0.00	0	0	0.00
	Total project Nox over threshold (lbs)		*760.83*			
	Total project Nox over threshold (tons)		*0.38*			

PART 3: MITIGATION FEE RESULTS

*MITIGATION FEE ($17,080/TON)***	*$6,497*
ADMINISTRATIVE FEE (5.0%)	*$325*
TOTAL FEE	***$6,822***

>>> *Fee is to be paid to the SMAQMD, either in total or on a by acre basis, prior to any ground disturbance.*

Mitigation Fee ($/acre) **$122.99**

* Assumes a construction mitigation plan which achieves a 20% reduction in NOx from on-site, off-road equipment.
** Or the $/ton of NOx cost-effectiveness value in effect at the time the fee is collected.