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California Emissions Estimator Model (CalEEMod) Information

Appendix A

mwprs_facilities

Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	261.22677	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer’s estimates for the project.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

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Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Demolition -

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	0.39	2.96	1.87	0.00	0.36	0.16	0.52	0.19	0.16	0.34	0.00	301.19	301.19	0.03	0.00	301.85
2014	0.56	3.89	2.83	0.01	0.06	0.23	0.29	0.00	0.22	0.23	0.00	503.45	503.45	0.04	0.00	504.35
2015	0.40	2.80	2.18	0.00	0.05	0.16	0.21	0.00	0.16	0.16	0.00	396.94	396.94	0.03	0.00	397.59
2016	0.27	1.92	1.40	0.00	0.16	0.10	0.27	0.07	0.10	0.18	0.00	233.89	233.89	0.02	0.00	234.34
Total	**1.62**	**11.57**	**8.28**	**0.01**	**0.63**	**0.65**	**1.29**	**0.26**	**0.64**	**0.91**	**0.00**	**1,435.47**	**1,435.47**	**0.12**	**0.00**	**1,438.13**

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					
2013	0.39	2.96	1.87	0.00	0.34	0.16	0.50	0.19	0.16	0.34	0.00	301.19	301.19	0.03	0.00	301.85
2014	0.56	3.89	2.83	0.01	0.00	0.23	0.23	0.00	0.22	0.23	0.00	503.45	503.45	0.04	0.00	504.35
2015	0.40	2.80	2.18	0.00	0.00	0.16	0.16	0.00	0.16	0.16	0.00	396.94	396.94	0.03	0.00	397.59
2016	0.27	1.92	1.40	0.00	0.15	0.10	0.25	0.07	0.10	0.18	0.00	233.89	233.89	0.02	0.00	234.34
Total	**1.62**	**11.57**	**8.28**	**0.01**	**0.49**	**0.65**	**1.14**	**0.26**	**0.64**	**0.91**	**0.00**	**1,435.47**	**1,435.47**	**0.12**	**0.00**	**1,438.13**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.02					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	974.79	974.79	0.04	0.02	980.85
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	414.55	0.00	414.55	123.34	0.00	3,004.62
Water						0.00	0.00		0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02
Total	**1.05**	**0.25**	**0.21**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.02**	**414.55**	**974.80**	**1,389.35**	**123.38**	**0.02**	**3,985.49**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.02					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	974.79	974.79	0.04	0.02	980.85
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	414.55	0.00	414.55	123.34	0.00	3,004.62
Water						0.00	0.00		0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02
Total	**1.05**	**0.25**	**0.21**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.02**	**414.55**	**974.80**	**1,389.35**	**123.38**	**0.02**	**3,985.49**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Facilities Demolition (Early Phase) - 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					
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	0.14	1.09	0.66	0.00		0.06	0.06		0.06	0.06	0.00	104.80	104.80	0.01	0.00	105.03
Total	**0.14**	**1.09**	**0.66**	**0.00**	**0.00**	**0.06**	**0.06**	**0.00**	**0.06**	**0.06**	**0.00**	**104.80**	**104.80**	**0.01**	**0.00**	**105.03**

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	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	0.38	0.38	0.00	0.00	0.38
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	2.51	2.51	0.00	0.00	2.51
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.89**	**2.89**	**0.00**	**0.00**	**2.89**

3.2 Facilities Demolition (Early Phase) - 2013

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	0.14	1.09	0.66	0.00		0.06	0.06		0.06	0.06	0.00	104.80	104.80	0.01	0.00	105.03
Total	**0.14**	**1.09**	**0.66**	**0.00**	**0.00**	**0.06**	**0.06**	**0.00**	**0.06**	**0.06**	**0.00**	**104.80**	**104.80**	**0.01**	**0.00**	**105.03**

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	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	0.38	0.38	0.00	0.00	0.38
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	2.51	2.51	0.00	0.00	2.51
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.89**	**2.89**	**0.00**	**0.00**	**2.89**

3.3 Facilities Site Preparation - 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					
Fugitive Dust					0.20	0.00	0.20	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.07	0.60	0.34	0.00		0.03	0.03		0.03	0.03	0.00	54.01	54.01	0.01	0.00	54.13
Total	**0.07**	**0.60**	**0.34**	**0.00**	**0.20**	**0.03**	**0.23**	**0.11**	**0.03**	**0.14**	**0.00**	**54.01**	**54.01**	**0.01**	**0.00**	**54.13**

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	1.50	1.50	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**	**1.50**	**1.50**	**0.00**	**0.00**	**1.51**

3.3 Facilities Site Preparation - 2013

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					0.20	0.00	0.20	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.07	0.60	0.34	0.00		0.03	0.03		0.03	0.03	0.00	54.01	54.01	0.01	0.00	54.13
Total	**0.07**	**0.60**	**0.34**	**0.00**	**0.20**	**0.03**	**0.23**	**0.11**	**0.03**	**0.14**	**0.00**	**54.01**	**54.01**	**0.01**	**0.00**	**54.13**

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	1.50	1.50	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**	**1.50**	**1.50**	**0.00**	**0.00**	**1.51**

3.4 Facilities Grading (Early Phase) - 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					
Fugitive Dust					0.14	0.00	0.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.10	0.74	0.47	0.00		0.04	0.04		0.04	0.04	0.00	71.71	71.71	0.01	0.00	71.87
Total	**0.10**	**0.74**	**0.47**	**0.00**	**0.14**	**0.04**	**0.18**	**0.08**	**0.04**	**0.12**	**0.00**	**71.71**	**71.71**	**0.01**	**0.00**	**71.87**

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	2.56	2.56	0.00	0.00	2.57
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.56**	**2.56**	**0.00**	**0.00**	**2.57**

3.4 Facilities Grading (Early Phase) - 2013

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					0.14	0.00	0.14	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.10	0.74	0.47	0.00		0.04	0.04		0.04	0.04	0.00	71.71	71.71	0.01	0.00	71.87
Total	**0.10**	**0.74**	**0.47**	**0.00**	**0.14**	**0.04**	**0.18**	**0.08**	**0.04**	**0.12**	**0.00**	**71.71**	**71.71**	**0.01**	**0.00**	**71.87**

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	2.56	2.56	0.00	0.00	2.57
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.56**	**2.56**	**0.00**	**0.00**	**2.57**

3.5 Facilities 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	0.07	0.43	0.29	0.00		0.03	0.03		0.03	0.03	0.00	44.64	44.64	0.01	0.00	44.75
Total	**0.07**	**0.43**	**0.29**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**44.64**	**44.64**	**0.01**	**0.00**	**44.75**

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	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	0.01	0.10	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	16.21	16.21	0.00	0.00	16.22
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	2.88	0.00	0.00	2.88
Total	**0.01**	**0.10**	**0.08**	**0.00**	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**19.09**	**19.09**	**0.00**	**0.00**	**19.10**

3.5 Facilities Building Construction - 2013

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	0.43	0.29	0.00		0.03	0.03		0.03	0.03	0.00	44.64	44.64	0.01	0.00	44.75
Total	**0.07**	**0.43**	**0.29**	**0.00**		**0.03**	**0.03**		**0.03**	**0.03**	**0.00**	**44.64**	**44.64**	**0.01**	**0.00**	**44.75**

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	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	0.01	0.10	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.21	16.21	0.00	0.00	16.22
Worker	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	2.88	0.00	0.00	2.88
Total	**0.01**	**0.10**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**19.09**	**19.09**	**0.00**	**0.00**	**19.10**

3.5 Facilities 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	tons/yr										MT/yr					
Off-Road	0.48	3.13	2.28	0.00		0.20	0.20		0.20	0.20	0.00	353.05	353.05	0.04	0.00	353.87
Total	**0.48**	**3.13**	**2.28**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**	**0.00**	**353.05**	**353.05**	**0.04**	**0.00**	**353.87**

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	0.06	0.75	0.40	0.00	0.04	0.02	0.06	0.00	0.02	0.02	0.00	128.23	128.23	0.00	0.00	128.29
Worker	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	22.17	22.17	0.00	0.00	22.19
Total	**0.07**	**0.76**	**0.54**	**0.00**	**0.07**	**0.02**	**0.09**	**0.00**	**0.02**	**0.02**	**0.00**	**150.40**	**150.40**	**0.00**	**0.00**	**150.48**

3.5 Facilities Building Construction - 2014

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	0.48	3.13	2.28	0.00		0.20	0.20		0.20	0.20	0.00	353.05	353.05	0.04	0.00	353.87
Total	**0.48**	**3.13**	**2.28**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**	**0.00**	**353.05**	**353.05**	**0.04**	**0.00**	**353.87**

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	0.06	0.75	0.40	0.00	0.00	0.02	0.03	0.00	0.02	0.02	0.00	128.23	128.23	0.00	0.00	128.29
Worker	0.01	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.17	22.17	0.00	0.00	22.19
Total	**0.07**	**0.76**	**0.54**	**0.00**	**0.00**	**0.02**	**0.03**	**0.00**	**0.02**	**0.02**	**0.00**	**150.40**	**150.40**	**0.00**	**0.00**	**150.48**

3.5 Facilities 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	tons/yr										MT/yr					
Off-Road	0.35	2.25	1.78	0.00		0.14	0.14		0.14	0.14	0.00	278.65	278.65	0.03	0.00	279.24
Total	**0.35**	**2.25**	**1.78**	**0.00**		**0.14**	**0.14**		**0.14**	**0.14**	**0.00**	**278.65**	**278.65**	**0.03**	**0.00**	**279.24**

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	0.05	0.54	0.30	0.00	0.03	0.02	0.04	0.00	0.01	0.02	0.00	101.22	101.22	0.00	0.00	101.26
Worker	0.01	0.01	0.10	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	17.06	17.06	0.00	0.00	17.08
Total	**0.06**	**0.55**	**0.40**	**0.00**	**0.05**	**0.02**	**0.06**	**0.00**	**0.01**	**0.02**	**0.00**	**118.28**	**118.28**	**0.00**	**0.00**	**118.34**

3.5 Facilities Building Construction - 2015

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	0.35	2.25	1.78	0.00		0.14	0.14		0.14	0.14	0.00	278.65	278.65	0.03	0.00	279.24
Total	**0.35**	**2.25**	**1.78**	**0.00**		**0.14**	**0.14**		**0.14**	**0.14**	**0.00**	**278.65**	**278.65**	**0.03**	**0.00**	**279.24**

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	0.05	0.54	0.30	0.00	0.00	0.02	0.02	0.00	0.01	0.02	0.00	101.22	101.22	0.00	0.00	101.26
Worker	0.01	0.01	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.06	17.06	0.00	0.00	17.08
Total	**0.06**	**0.55**	**0.40**	**0.00**	**0.00**	**0.02**	**0.02**	**0.00**	**0.01**	**0.02**	**0.00**	**118.28**	**118.28**	**0.00**	**0.00**	**118.34**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 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	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	0.15	1.15	0.79	0.00		0.06	0.06		0.06	0.06	0.00	138.01	138.01	0.01	0.00	138.27
Total	**0.15**	**1.15**	**0.79**	**0.00**	**0.01**	**0.06**	**0.07**	**0.00**	**0.06**	**0.06**	**0.00**	**138.01**	**138.01**	**0.01**	**0.00**	**138.27**

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	0.38	0.38	0.00	0.00	0.38
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	3.48	3.48	0.00	0.00	3.49
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.86**	**3.86**	**0.00**	**0.00**	**3.87**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 2016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.15	1.15	0.79	0.00		0.06	0.06		0.06	0.06	0.00	138.01	138.01	0.01	0.00	138.27
Total	**0.15**	**1.15**	**0.79**	**0.00**	**0.01**	**0.06**	**0.07**	**0.00**	**0.06**	**0.06**	**0.00**	**138.01**	**138.01**	**0.01**	**0.00**	**138.27**

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	0.38	0.38	0.00	0.00	0.38
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	3.48	3.48	0.00	0.00	3.49
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**3.86**	**3.86**	**0.00**	**0.00**	**3.87**

3.7 Facilities SMD1 Basin Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.14	0.00	0.14	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.08	0.56	0.42	0.00		0.03	0.03		0.03	0.03	0.00	68.84	68.84	0.01	0.00	68.97
Total	**0.08**	**0.56**	**0.42**	**0.00**	**0.14**	**0.03**	**0.17**	**0.07**	**0.03**	**0.10**	**0.00**	**68.84**	**68.84**	**0.01**	**0.00**	**68.97**

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	2.27	2.27	0.00	0.00	2.27
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.27**	**2.27**	**0.00**	**0.00**	**2.27**

3.7 Facilities SMD1 Basin Grading - 2016

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					0.14	0.00	0.14	0.07	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.08	0.56	0.42	0.00		0.03	0.03		0.03	0.03	0.00	68.84	68.84	0.01	0.00	68.97
Total	**0.08**	**0.56**	**0.42**	**0.00**	**0.14**	**0.03**	**0.17**	**0.07**	**0.03**	**0.10**	**0.00**	**68.84**	**68.84**	**0.01**	**0.00**	**68.97**

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	2.27	2.27	0.00	0.00	2.27
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.27**	**2.27**	**0.00**	**0.00**	**2.27**

3.8 Facilities 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	tons/yr										MT/yr					
Off-Road	0.03	0.21	0.15	0.00		0.02	0.02		0.02	0.02	0.00	19.74	19.74	0.00	0.00	19.80
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.03**	**0.21**	**0.15**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**19.74**	**19.74**	**0.00**	**0.00**	**19.80**

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	1.16	1.16	0.00	0.00	1.16
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.16**	**1.16**	**0.00**	**0.00**	**1.16**

3.8 Facilities Paving - 2016

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	0.03	0.21	0.15	0.00		0.02	0.02		0.02	0.02	0.00	19.74	19.74	0.00	0.00	19.80
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.03**	**0.21**	**0.15**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**19.74**	**19.74**	**0.00**	**0.00**	**19.80**

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	1.16	1.16	0.00	0.00	1.16
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.16**	**1.16**	**0.00**	**0.00**	**1.16**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	701.42	701.42	0.03	0.01	705.82
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	701.42	701.42	0.03	0.01	705.82
NaturalGas Mitigated	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	273.36	273.36	0.01	0.01	275.03
NaturalGas Unmitigated	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	273.36	273.36	0.01	0.01	275.03
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					
General Light Industry	5.12266e+006	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	273.36	273.36	0.01	0.01	275.03
Total		**0.03**	**0.25**	**0.21**	**0.00**		**0.00**	**0.02**		**0.00**	**0.02**	**0.00**	**273.36**	**273.36**	**0.01**	**0.01**	**275.03**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
General Light Industry	5.12266e+006	0.03	0.25	0.21	0.00		0.00	0.02		0.00	0.02	0.00	273.36	273.36	0.01	0.01	275.03
Total		**0.03**	**0.25**	**0.21**	**0.00**		**0.00**	**0.02**		**0.00**	**0.02**	**0.00**	**273.36**	**273.36**	**0.01**	**0.01**	**275.03**

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			
General Light Industry	2.41112e+006					701.42	0.03	0.01	705.82
Total						**701.42**	**0.03**	**0.01**	**705.82**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
General Light Industry	2.41112e+006					701.42	0.03	0.01	705.82
Total						**701.42**	**0.03**	**0.01**	**705.82**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.02					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	1.02					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	tons/yr										MT/yr					
Architectural Coating	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.02					0.00	0.00		0.00	0.00	0.00	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
Total	**1.02**					**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	tons/yr										MT/yr					
Architectural Coating	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.02					0.00	0.00		0.00	0.00	0.00	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
Total	**1.02**					**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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					0.01	0.00	0.00	0.02
Unmitigated					0.01	0.00	0.00	0.02
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			
General Light Industry	0.021275 / 0.0365					0.01	0.00	0.00	0.02
Total						**0.01**	**0.00**	**0.00**	**0.02**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
General Light Industry	0.021275 / 0.0365					0.01	0.00	0.00	0.02
Total						**0.01**	**0.00**	**0.00**	**0.02**

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					414.55	123.34	0.00	3,004.62
Unmitigated					414.55	123.34	0.00	3,004.62
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			
General Light Industry	3194					414.55	123.34	0.00	3,004.62
Total						**414.55**	**123.34**	**0.00**	**3,004.62**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Light Industry	3194					414.55	123.34	0.00	3,004.62
Total						**414.55**	**123.34**	**0.00**	**3,004.62**

9.0 Vegetation

mwprs_pipelines

Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	4660.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer's estimates for the project.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

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Off-road Equipment - Non-default values are based on the engineer’s estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.0.42

Grading - Non-default values are based on the engineer’s estimates for the project.

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Architectural Coating - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Energy Use - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	0.44	3.16	1.98	0.00	1.24	0.20	1.44	0.12	0.20	0.32	0.00	294.55	294.55	0.04	0.00	295.30
2014	1.25	8.91	5.77	0.01	3.73	0.54	4.27	0.37	0.54	0.91	0.00	882.88	882.88	0.10	0.00	885.01
2015	0.19	1.33	0.90	0.00	0.60	0.08	0.68	0.06	0.08	0.14	0.00	141.96	141.96	0.02	0.00	142.29
Total	**1.88**	**13.40**	**8.65**	**0.01**	**5.57**	**0.82**	**6.39**	**0.55**	**0.82**	**1.37**	**0.00**	**1,319.39**	**1,319.39**	**0.16**	**0.00**	**1,322.60**

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					
2013	0.44	3.16	1.98	0.00	0.00	0.20	0.20	0.00	0.20	0.20	0.00	294.55	294.55	0.04	0.00	295.30
2014	1.25	8.91	5.77	0.01	0.00	0.54	0.55	0.00	0.54	0.54	0.00	882.88	882.88	0.10	0.00	885.01
2015	0.19	1.33	0.90	0.00	0.00	0.08	0.08	0.00	0.08	0.08	0.00	141.96	141.96	0.02	0.00	142.29
Total	**1.88**	**13.40**	**8.65**	**0.01**	**0.00**	**0.82**	**0.83**	**0.00**	**0.82**	**0.82**	**0.00**	**1,319.39**	**1,319.39**	**0.16**	**0.00**	**1,322.60**

There are no operational emissions associated with the pipeline component of the project. The operations should be zero. This is considered a mistake by CalEEMod which attributes these emissions with use of consumer products. There will be no increase in consumer products as a result of the pipeline operations.

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	18.20					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**18.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

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	18.20					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**18.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					
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	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**	**0.00**	**0.00**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.2 Site Preparation - 2013

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	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**	**0.00**	**0.00**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.3 Grading - 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					
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	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**	**0.00**	**0.00**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.3 Grading - 2013

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	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**	**0.00**	**0.00**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.4 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	0.00	0.00	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**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.4 Building Construction - 2013

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	0.00	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**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.5 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	0.00					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	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**	**0.00**

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.5 Architectural Coating - 2013

Mitigated Construction On-Site

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

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	0.00	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**	**0.00**	**0.00**	**0.00**

3.6 Pipeline Trenching - 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	0.27	2.15	1.30	0.00		0.11	0.11		0.11	0.11	0.00	207.22	207.22	0.02	0.00	207.68
Total	**0.27**	**2.15**	**1.30**	**0.00**		**0.11**	**0.11**		**0.11**	**0.11**	**0.00**	**207.22**	**207.22**	**0.02**	**0.00**	**207.68**

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	0.03	0.00	0.77	0.00	0.77	0.08	0.00	0.08	0.00	4.95	4.95	0.00	0.00	4.96
Total	**0.00**	**0.00**	**0.03**	**0.00**	**0.77**	**0.00**	**0.77**	**0.08**	**0.00**	**0.08**	**0.00**	**4.95**	**4.95**	**0.00**	**0.00**	**4.96**

3.6 Pipeline Trenching - 2013

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	0.27	2.15	1.30	0.00		0.11	0.11		0.11	0.11	0.00	207.22	207.22	0.02	0.00	207.68
Total	**0.27**	**2.15**	**1.30**	**0.00**		**0.11**	**0.11**		**0.11**	**0.11**	**0.00**	**207.22**	**207.22**	**0.02**	**0.00**	**207.68**

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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.95	4.95	0.00	0.00	4.96
Total	**0.00**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.95**	**4.95**	**0.00**	**0.00**	**4.96**

3.6 Pipeline Trenching - 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					
Off-Road	0.77	6.05	3.77	0.01		0.30	0.30		0.30	0.30	0.00	621.65	621.65	0.06	0.00	622.96
Total	**0.77**	**6.05**	**3.77**	**0.01**		**0.30**	**0.30**		**0.30**	**0.30**	**0.00**	**621.65**	**621.65**	**0.06**	**0.00**	**622.96**

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	2.31	0.00	2.31	0.23	0.00	0.23	0.00	14.46	14.46	0.00	0.00	14.47
Total	**0.01**	**0.01**	**0.09**	**0.00**	**2.31**	**0.00**	**2.31**	**0.23**	**0.00**	**0.23**	**0.00**	**14.46**	**14.46**	**0.00**	**0.00**	**14.47**

3.6 Pipeline Trenching - 2014

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	0.77	6.05	3.77	0.01		0.30	0.30		0.30	0.30	0.00	621.65	621.65	0.06	0.00	622.96
Total	**0.77**	**6.05**	**3.77**	**0.01**		**0.30**	**0.30**		**0.30**	**0.30**	**0.00**	**621.65**	**621.65**	**0.06**	**0.00**	**622.96**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.46	14.46	0.00	0.00	14.47
Total	**0.01**	**0.01**	**0.09**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**14.46**	**14.46**	**0.00**	**0.00**	**14.47**

3.6 Pipeline Trenching - 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	tons/yr										MT/yr					
Off-Road	0.12	0.90	0.59	0.00		0.04	0.04		0.04	0.04	0.00	100.04	100.04	0.01	0.00	100.23
Total	**0.12**	**0.90**	**0.59**	**0.00**		**0.04**	**0.04**		**0.04**	**0.04**	**0.00**	**100.04**	**100.04**	**0.01**	**0.00**	**100.23**

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	0.37	0.00	0.37	0.04	0.00	0.04	0.00	2.27	2.27	0.00	0.00	2.27
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.37**	**0.00**	**0.37**	**0.04**	**0.00**	**0.04**	**0.00**	**2.27**	**2.27**	**0.00**	**0.00**	**2.27**

3.6 Pipeline Trenching - 2015

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	0.12	0.90	0.59	0.00		0.04	0.04		0.04	0.04	0.00	100.04	100.04	0.01	0.00	100.23
Total	**0.12**	**0.90**	**0.59**	**0.00**		**0.04**	**0.04**		**0.04**	**0.04**	**0.00**	**100.04**	**100.04**	**0.01**	**0.00**	**100.23**

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	2.27	2.27	0.00	0.00	2.27
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.27**	**2.27**	**0.00**	**0.00**	**2.27**

3.7 Pipeline Paving - 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	0.16	1.00	0.62	0.00		0.09	0.09		0.09	0.09	0.00	78.08	78.08	0.01	0.00	78.36
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.16**	**1.00**	**0.62**	**0.00**		**0.09**	**0.09**		**0.09**	**0.09**	**0.00**	**78.08**	**78.08**	**0.01**	**0.00**	**78.36**

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	0.03	0.00	0.47	0.00	0.47	0.05	0.00	0.05	0.00	4.29	4.29	0.00	0.00	4.30
Total	**0.00**	**0.00**	**0.03**	**0.00**	**0.47**	**0.00**	**0.47**	**0.05**	**0.00**	**0.05**	**0.00**	**4.29**	**4.29**	**0.00**	**0.00**	**4.30**

3.7 Pipeline Paving - 2013

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	0.16	1.00	0.62	0.00		0.09	0.09		0.09	0.09	0.00	78.08	78.08	0.01	0.00	78.36
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.16**	**1.00**	**0.62**	**0.00**		**0.09**	**0.09**		**0.09**	**0.09**	**0.00**	**78.08**	**78.08**	**0.01**	**0.00**	**78.36**

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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.29	4.29	0.00	0.00	4.30
Total	**0.00**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.29**	**4.29**	**0.00**	**0.00**	**4.30**

3.7 Pipeline Paving - 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					
Off-Road	0.46	2.84	1.83	0.00		0.24	0.24		0.24	0.24	0.00	234.24	234.24	0.04	0.00	235.03
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.46**	**2.84**	**1.83**	**0.00**		**0.24**	**0.24**		**0.24**	**0.24**	**0.00**	**234.24**	**234.24**	**0.04**	**0.00**	**235.03**

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	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	0.08	0.00	1.42	0.00	1.42	0.14	0.00	0.14	0.00	12.53	12.53	0.00	0.00	12.54
Total	**0.01**	**0.01**	**0.08**	**0.00**	**1.42**	**0.00**	**1.42**	**0.14**	**0.00**	**0.14**	**0.00**	**12.53**	**12.53**	**0.00**	**0.00**	**12.54**

3.7 Pipeline Paving - 2014

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	0.46	2.84	1.83	0.00		0.24	0.24		0.24	0.24	0.00	234.24	234.24	0.04	0.00	235.03
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.46**	**2.84**	**1.83**	**0.00**		**0.24**	**0.24**		**0.24**	**0.24**	**0.00**	**234.24**	**234.24**	**0.04**	**0.00**	**235.03**

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	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	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.53	12.53	0.00	0.00	12.54
Total	**0.01**	**0.01**	**0.08**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**12.53**	**12.53**	**0.00**	**0.00**	**12.54**

3.7 Pipeline Paving - 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	tons/yr										MT/yr					
Off-Road	0.07	0.43	0.29	0.00		0.04	0.04		0.04	0.04	0.00	37.69	37.69	0.01	0.00	37.81
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.07**	**0.43**	**0.29**	**0.00**		**0.04**	**0.04**		**0.04**	**0.04**	**0.00**	**37.69**	**37.69**	**0.01**	**0.00**	**37.81**

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	0.23	0.00	0.23	0.02	0.00	0.02	0.00	1.97	1.97	0.00	0.00	1.97
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.23**	**0.00**	**0.23**	**0.02**	**0.00**	**0.02**	**0.00**	**1.97**	**1.97**	**0.00**	**0.00**	**1.97**

3.7 Pipeline Paving - 2015

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	0.43	0.29	0.00		0.04	0.04		0.04	0.04	0.00	37.69	37.69	0.01	0.00	37.81
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.07**	**0.43**	**0.29**	**0.00**		**0.04**	**0.04**		**0.04**	**0.04**	**0.00**	**37.69**	**37.69**	**0.01**	**0.00**	**37.81**

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	1.97	1.97	0.00	0.00	1.97
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.97**	**1.97**	**0.00**	**0.00**	**1.97**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NaturalGas Mitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
General Light Industry	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
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**	**0.00**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	tons/yr										MT/yr					
General Light Industry	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
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**	**0.00**

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			
General Light Industry	0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
General Light Industry	0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	18.20					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	18.20					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	tons/yr										MT/yr					
Architectural Coating	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	18.20					0.00	0.00		0.00	0.00	0.00	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
Total	**18.20**					**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	tons/yr										MT/yr					
Architectural Coating	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	18.20					0.00	0.00		0.00	0.00	0.00	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
Total	**18.20**					**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

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					0.00	0.00	0.00	0.00
Unmitigated					0.00	0.00	0.00	0.00
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			
General Light Industry	0 / 0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
General Light Industry	0 / 0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

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					0.00	0.00	0.00	0.00
Unmitigated					0.00	0.00	0.00	0.00
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			
General Light Industry	0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Light Industry	0					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

9.0 Vegetation

mwprs_facilities

Placer County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	261.22677	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer’s estimates for the project.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

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Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Demolition -

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	17.49	136.84	83.85	0.14	25.33	7.02	32.35	13.25	7.02	20.27	0.00	14,584.39	0.00	1.57	0.00	14,617.33
2014	4.28	29.84	21.89	0.04	0.64	1.73	2.37	0.01	1.72	1.73	0.00	4,239.93	0.00	0.36	0.00	4,247.51
2015	3.92	27.23	21.39	0.04	0.64	1.54	2.18	0.01	1.53	1.54	0.00	4,235.56	0.00	0.33	0.00	4,242.52
2016	9.26	67.83	49.55	0.09	7.49	3.45	10.95	3.32	3.45	6.77	0.00	9,324.49	0.00	0.83	0.00	9,341.90
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					
2013	17.49	136.84	83.85	0.14	24.55	7.02	31.57	13.25	7.02	20.27	0.00	14,584.39	0.00	1.57	0.00	14,617.33
2014	4.28	29.84	21.89	0.04	0.04	1.73	1.77	0.01	1.72	1.73	0.00	4,239.93	0.00	0.36	0.00	4,247.51
2015	3.92	27.23	21.39	0.04	0.04	1.54	1.58	0.01	1.53	1.54	0.00	4,235.56	0.00	0.33	0.00	4,242.52
2016	9.26	67.83	49.55	0.09	6.89	3.45	10.34	3.32	3.45	6.77	0.00	9,324.49	0.00	0.83	0.00	9,341.90
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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Mobile	0.00	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	**5.74**	**1.38**	**1.16**	**0.01**	**0.00**	**0.00**	**0.10**	**0.00**	**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Mobile	0.00	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	**5.74**	**1.38**	**1.16**	**0.01**	**0.00**	**0.00**	**0.10**	**0.00**	**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Facilities Demolition (Early Phase) - 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					
Fugitive Dust					0.20	0.00	0.20	0.00	0.00	0.00						0.00
Off-Road	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51		5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**	**0.20**	**2.51**	**2.71**	**0.00**	**2.51**	**2.51**		**5,252.38**		**0.56**		**5,264.19**

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	0.01	0.13	0.06	0.00	0.22	0.00	0.23	0.00	0.00	0.00		18.94		0.00		18.95
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	0.08	0.08	0.75	0.00	0.18	0.00	0.19	0.00	0.00	0.01		120.50		0.01		120.63
Total	**0.09**	**0.21**	**0.81**	**0.00**	**0.40**	**0.00**	**0.42**	**0.00**	**0.00**	**0.01**		**139.44**		**0.01**		**139.58**

3.2 Facilities Demolition (Early Phase) - 2013

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					0.20	0.00	0.20	0.00	0.00	0.00						0.00
Off-Road	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51	0.00	5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**	**0.20**	**2.51**	**2.71**	**0.00**	**2.51**	**2.51**	**0.00**	**5,252.38**		**0.56**		**5,264.19**

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	0.01	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00		18.94		0.00		18.95
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	0.08	0.08	0.75	0.00	0.01	0.00	0.01	0.00	0.00	0.01		120.50		0.01		120.63
Total	**0.09**	**0.21**	**0.81**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**139.44**		**0.01**		**139.58**

3.3 Facilities Site Preparation - 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					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	6.70	54.15	30.68	0.05		2.66	2.66		2.66	2.66		5,413.51		0.60		5,426.15
Total	**6.70**	**54.15**	**30.68**	**0.05**	**18.07**	**2.66**	**20.73**	**9.93**	**2.66**	**12.59**		**5,413.51**		**0.60**		**5,426.15**

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	0.10	0.10	0.90	0.00	0.22	0.01	0.22	0.00	0.00	0.01		144.60		0.01		144.76
Total	**0.10**	**0.10**	**0.90**	**0.00**	**0.22**	**0.01**	**0.22**	**0.00**	**0.00**	**0.01**		**144.60**		**0.01**		**144.76**

3.3 Facilities Site Preparation - 2013

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	6.70	54.15	30.68	0.05		2.66	2.66		2.66	2.66	0.00	5,413.51		0.60		5,426.15
Total	**6.70**	**54.15**	**30.68**	**0.05**	**18.07**	**2.66**	**20.73**	**9.93**	**2.66**	**12.59**	**0.00**	**5,413.51**		**0.60**		**5,426.15**

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	0.10	0.10	0.90	0.00	0.01	0.01	0.01	0.00	0.00	0.01		144.60		0.01		144.76
Total	**0.10**	**0.10**	**0.90**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**	**0.01**		**144.60**		**0.01**		**144.76**

3.4 Facilities Grading (Early Phase) - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	4.26	32.75	20.78	0.03		1.83	1.83		1.83	1.83		3,513.97		0.38		3,522.00
Total	**4.26**	**32.75**	**20.78**	**0.03**	**6.26**	**1.83**	**8.09**	**3.31**	**1.83**	**5.14**		**3,513.97**		**0.38**		**3,522.00**

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	0.08	0.08	0.75	0.00	0.18	0.00	0.19	0.00	0.00	0.01		120.50		0.01		120.63
Total	**0.08**	**0.08**	**0.75**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**120.50**		**0.01**		**120.63**

3.4 Facilities Grading (Early Phase) - 2013

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					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	4.26	32.75	20.78	0.03		1.83	1.83		1.83	1.83	0.00	3,513.97		0.38		3,522.00
Total	**4.26**	**32.75**	**20.78**	**0.03**	**6.26**	**1.83**	**8.09**	**3.31**	**1.83**	**5.14**	**0.00**	**3,513.97**		**0.38**		**3,522.00**

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	0.08	0.08	0.75	0.00	0.01	0.00	0.01	0.00	0.00	0.01		120.50		0.01		120.63
Total	**0.08**	**0.08**	**0.75**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**120.50**		**0.01**		**120.63**

3.5 Facilities 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	4.01	25.89	17.72	0.03		1.74	1.74		1.74	1.74		2,982.97		0.36		2,990.49
Total	**4.01**	**25.89**	**17.72**	**0.03**		**1.74**	**1.74**		**1.74**	**1.74**		**2,982.97**		**0.36**		**2,990.49**

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	6.29	3.58	0.01	0.36	0.19	0.55	0.01	0.18	0.18		1,077.10		0.03		1,077.66
Worker	0.13	0.12	1.15	0.00	0.28	0.01	0.28	0.00	0.01	0.01		184.76		0.01		184.97
Total	**0.68**	**6.41**	**4.73**	**0.01**	**0.64**	**0.20**	**0.83**	**0.01**	**0.19**	**0.19**		**1,261.86**		**0.04**		**1,262.63**

3.5 Facilities Building Construction - 2013

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	4.01	25.89	17.72	0.03		1.74	1.74		1.74	1.74	0.00	2,982.97		0.36		2,990.49
Total	**4.01**	**25.89**	**17.72**	**0.03**		**1.74**	**1.74**		**1.74**	**1.74**	**0.00**	**2,982.97**		**0.36**		**2,990.49**

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	6.29	3.58	0.01	0.03	0.19	0.22	0.01	0.18	0.18		1,077.10		0.03		1,077.66
Worker	0.13	0.12	1.15	0.00	0.01	0.01	0.02	0.00	0.01	0.01		184.76		0.01		184.97
Total	**0.68**	**6.41**	**4.73**	**0.01**	**0.04**	**0.20**	**0.24**	**0.01**	**0.19**	**0.19**		**1,261.86**		**0.04**		**1,262.63**

3.5 Facilities 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	3.67	24.00	17.51	0.03		1.55	1.55		1.55	1.55		2,982.97		0.33		2,989.86
Total	**3.67**	**24.00**	**17.51**	**0.03**		**1.55**	**1.55**		**1.55**	**1.55**		**2,982.97**		**0.33**		**2,989.86**

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	0.50	5.72	3.34	0.01	0.36	0.17	0.53	0.01	0.16	0.17		1,077.25		0.02		1,077.76
Worker	0.12	0.11	1.04	0.00	0.28	0.01	0.28	0.00	0.01	0.01		179.70		0.01		179.89
Total	**0.62**	**5.83**	**4.38**	**0.01**	**0.64**	**0.18**	**0.81**	**0.01**	**0.17**	**0.18**		**1,256.95**		**0.03**		**1,257.65**

3.5 Facilities Building Construction - 2014

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	3.67	24.00	17.51	0.03		1.55	1.55		1.55	1.55	0.00	2,982.97		0.33		2,989.86
Total	**3.67**	**24.00**	**17.51**	**0.03**		**1.55**	**1.55**		**1.55**	**1.55**	**0.00**	**2,982.97**		**0.33**		**2,989.86**

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	0.50	5.72	3.34	0.01	0.03	0.17	0.20	0.01	0.16	0.17		1,077.25		0.02		1,077.76
Worker	0.12	0.11	1.04	0.00	0.01	0.01	0.02	0.00	0.01	0.01		179.70		0.01		179.89
Total	**0.62**	**5.83**	**4.38**	**0.01**	**0.04**	**0.18**	**0.22**	**0.01**	**0.17**	**0.18**		**1,256.95**		**0.03**		**1,257.65**

3.5 Facilities 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	3.35	21.89	17.33	0.03		1.38	1.38		1.38	1.38		2,982.97		0.30		2,989.30
Total	**3.35**	**21.89**	**17.33**	**0.03**		**1.38**	**1.38**		**1.38**	**1.38**		**2,982.97**		**0.30**		**2,989.30**

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	0.46	5.24	3.12	0.01	0.36	0.15	0.51	0.01	0.14	0.15		1,077.37		0.02		1,077.84
Worker	0.11	0.10	0.94	0.00	0.28	0.01	0.28	0.00	0.01	0.01		175.21		0.01		175.38
Total	**0.57**	**5.34**	**4.06**	**0.01**	**0.64**	**0.16**	**0.79**	**0.01**	**0.15**	**0.16**		**1,252.58**		**0.03**		**1,253.22**

3.5 Facilities Building Construction - 2015

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	3.35	21.89	17.33	0.03		1.38	1.38		1.38	1.38	0.00	2,982.97		0.30		2,989.30
Total	**3.35**	**21.89**	**17.33**	**0.03**		**1.38**	**1.38**		**1.38**	**1.38**	**0.00**	**2,982.97**		**0.30**		**2,989.30**

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	0.46	5.24	3.12	0.01	0.03	0.15	0.18	0.01	0.14	0.15		1,077.37		0.02		1,077.84
Worker	0.11	0.10	0.94	0.00	0.01	0.01	0.02	0.00	0.01	0.01		175.21		0.01		175.38
Total	**0.57**	**5.34**	**4.06**	**0.01**	**0.04**	**0.16**	**0.20**	**0.01**	**0.15**	**0.16**		**1,252.58**		**0.03**		**1,253.22**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 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					
Fugitive Dust					0.32	0.00	0.32	0.00	0.00	0.00						0.00
Off-Road	5.59	41.70	28.91	0.05		2.10	2.10		2.10	2.10		5,533.57		0.50		5,544.11
Total	**5.59**	**41.70**	**28.91**	**0.05**	**0.32**	**2.10**	**2.42**	**0.00**	**2.10**	**2.10**		**5,533.57**		**0.50**		**5,544.11**

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	0.01	0.08	0.04	0.00	0.22	0.00	0.22	0.00	0.00	0.00		15.19		0.00		15.19
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	0.08	0.07	0.67	0.00	0.22	0.01	0.22	0.00	0.00	0.01		133.93		0.01		134.06
Total	**0.09**	**0.15**	**0.71**	**0.00**	**0.44**	**0.01**	**0.44**	**0.00**	**0.00**	**0.01**		**149.12**		**0.01**		**149.25**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 2016

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					0.32	0.00	0.32	0.00	0.00	0.00						0.00
Off-Road	5.59	41.70	28.91	0.05		2.10	2.10		2.10	2.10	0.00	5,533.57		0.50		5,544.11
Total	**5.59**	**41.70**	**28.91**	**0.05**	**0.32**	**2.10**	**2.42**	**0.00**	**2.10**	**2.10**	**0.00**	**5,533.57**		**0.50**		**5,544.11**

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	0.01	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		15.19		0.00		15.19
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	0.08	0.07	0.67	0.00	0.01	0.01	0.01	0.00	0.00	0.01		133.93		0.01		134.06
Total	**0.09**	**0.15**	**0.71**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**	**0.01**		**149.12**		**0.01**		**149.25**

3.7 Facilities SMD1 Basin Grading - 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					
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	3.53	25.92	19.36	0.03		1.35	1.35		1.35	1.35		3,530.19		0.32		3,536.83
Total	**3.53**	**25.92**	**19.36**	**0.03**	**6.55**	**1.35**	**7.90**	**3.31**	**1.35**	**4.66**		**3,530.19**		**0.32**		**3,536.83**

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	0.06	0.56	0.00	0.18	0.00	0.19	0.00	0.00	0.01		111.61		0.01		111.71
Total	**0.07**	**0.06**	**0.56**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**111.61**		**0.01**		**111.71**

3.7 Facilities SMD1 Basin Grading - 2016

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					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	3.53	25.92	19.36	0.03		1.35	1.35		1.35	1.35	0.00	3,530.19		0.32		3,536.83
Total	**3.53**	**25.92**	**19.36**	**0.03**	**6.55**	**1.35**	**7.90**	**3.31**	**1.35**	**4.66**	**0.00**	**3,530.19**		**0.32**		**3,536.83**

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	0.06	0.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01		111.61		0.01		111.71
Total	**0.07**	**0.06**	**0.56**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**111.61**		**0.01**		**111.71**

3.8 Facilities 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	0.07	0.06	0.56	0.00	0.18	0.00	0.19	0.00	0.00	0.01		111.61		0.01		111.71
Total	**0.07**	**0.06**	**0.56**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**111.61**		**0.01**		**111.71**

3.8 Facilities Paving - 2016

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	0.07	0.06	0.56	0.00	0.01	0.00	0.01	0.00	0.00	0.01		111.61		0.01		111.71
Total	**0.07**	**0.06**	**0.56**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**111.61**		**0.01**		**111.71**

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

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	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
NaturalGas Unmitigated	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
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					
General Light Industry	14034.7	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Total		**0.15**	**1.38**	**1.16**	**0.01**		**0.00**	**0.10**		**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
General Light Industry	14.0347	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Total		**0.15**	**1.38**	**1.16**	**0.01**		**0.00**	**0.10**		**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	5.59	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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.59					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	**5.59**	**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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.59					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	**5.59**	**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

mwprs_pipelines

Placer County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	4660.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer's estimates for the project.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer’s estimates for the project.

Off-road Equipment - Non-default values are based on the engineer’s estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.0.42

Grading - Non-default values are based on the engineer’s estimates for the project.

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Architectural Coating - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Energy Use - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	10.15	72.63	45.48	0.07	35.87	4.51	40.38	3.55	4.51	8.05	0.00	7,456.45	0.00	0.91	0.00	7,475.58
2014	9.58	68.28	44.18	0.07	35.87	4.17	40.04	3.55	4.17	7.71	0.00	7,450.30	0.00	0.86	0.00	7,468.30
2015	9.00	63.29	42.98	0.07	35.87	3.83	39.70	3.55	3.83	7.37	0.00	7,444.83	0.00	0.81	0.00	7,461.74
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					
2013	10.15	72.63	45.48	0.07	0.01	4.51	4.52	0.00	4.51	4.51	0.00	7,456.45	0.00	0.91	0.00	7,475.58
2014	9.58	68.28	44.18	0.07	0.01	4.17	4.18	0.00	4.17	4.17	0.00	7,450.30	0.00	0.86	0.00	7,468.30
2015	9.00	63.29	42.98	0.07	0.01	3.83	3.84	0.00	3.83	3.83	0.00	7,444.83	0.00	0.81	0.00	7,461.74
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

There are no operational emissions associated with the pipeline component of the project. The operations should be zero. This is considered a mistake by CalEEMod which attributes these emissions with use of consumer products. There will be no increase in consumer products as a result of the pipeline operations.

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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Mobile	0.00	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	**99.74**	**0.00**	**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 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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Mobile	0.00	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	**99.74**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**	**0.00**	**0.00**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					
Fugitive Dust					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		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**

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**

3.2 Site Preparation - 2013

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					0.00	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	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**		**0.00**

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**

3.3 Grading - 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					
Fugitive Dust					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		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**

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**

3.3 Grading - 2013

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					0.00	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	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**		**0.00**

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**

3.4 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	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**

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**

3.4 Building Construction - 2013

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	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**

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**

3.5 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	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		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**

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**

3.5 Architectural Coating - 2013

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	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	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**

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**

3.6 Pipeline Trenching - 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	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51		5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**		**2.51**	**2.51**		**2.51**	**2.51**		**5,252.38**		**0.56**		**5,264.19**

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	0.08	0.08	0.75	0.00	22.22	0.00	22.22	2.20	0.00	2.20		120.50		0.01		120.63
Total	**0.08**	**0.08**	**0.75**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**120.50**		**0.01**		**120.63**

3.6 Pipeline Trenching - 2013

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	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51	0.00	5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**		**2.51**	**2.51**		**2.51**	**2.51**	**0.00**	**5,252.38**		**0.56**		**5,264.19**

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	0.08	0.08	0.75	0.00	0.01	0.00	0.01	0.00	0.00	0.01		120.50		0.01		120.63
Total	**0.08**	**0.08**	**0.75**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**120.50**		**0.01**		**120.63**

3.6 Pipeline Trenching - 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	5.91	46.38	28.87	0.05		2.30	2.30		2.30	2.30		5,252.38		0.53		5,263.48
Total	**5.91**	**46.38**	**28.87**	**0.05**		**2.30**	**2.30**		**2.30**	**2.30**		**5,252.38**		**0.53**		**5,263.48**

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	0.08	0.07	0.68	0.00	22.22	0.00	22.22	2.20	0.00	2.20		117.20		0.01		117.32
Total	**0.08**	**0.07**	**0.68**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**117.20**		**0.01**		**117.32**

3.6 Pipeline Trenching - 2014

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	5.91	46.38	28.87	0.05		2.30	2.30		2.30	2.30	0.00	5,252.38		0.53		5,263.48
Total	**5.91**	**46.38**	**28.87**	**0.05**		**2.30**	**2.30**		**2.30**	**2.30**	**0.00**	**5,252.38**		**0.53**		**5,263.48**

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	0.08	0.07	0.68	0.00	0.01	0.00	0.01	0.00	0.00	0.01		117.20		0.01		117.32
Total	**0.08**	**0.07**	**0.68**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**117.20**		**0.01**		**117.32**

3.6 Pipeline Trenching - 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	5.56	42.75	27.91	0.05		2.10	2.10		2.10	2.10		5,252.38		0.50		5,262.83
Total	**5.56**	**42.75**	**27.91**	**0.05**		**2.10**	**2.10**		**2.10**	**2.10**		**5,252.38**		**0.50**		**5,262.83**

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	0.06	0.61	0.00	22.22	0.00	22.22	2.20	0.00	2.20		114.27		0.01		114.38
Total	**0.07**	**0.06**	**0.61**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**114.27**		**0.01**		**114.38**

3.6 Pipeline Trenching - 2015

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	5.56	42.75	27.91	0.05		2.10	2.10		2.10	2.10	0.00	5,252.38		0.50		5,262.83
Total	**5.56**	**42.75**	**27.91**	**0.05**		**2.10**	**2.10**		**2.10**	**2.10**	**0.00**	**5,252.38**		**0.50**		**5,262.83**

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	0.06	0.61	0.00	0.01	0.00	0.01	0.00	0.00	0.01		114.27		0.01		114.38
Total	**0.07**	**0.06**	**0.61**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**114.27**		**0.01**		**114.38**

3.7 Pipeline Paving - 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	3.75	22.93	14.17	0.02		1.99	1.99		1.99	1.99		1,979.14		0.34		1,986.20
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.75**	**22.93**	**14.17**	**0.02**		**1.99**	**1.99**		**1.99**	**1.99**		**1,979.14**		**0.34**		**1,986.20**

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	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	0.65	0.00	13.65	0.00	13.65	1.35	0.00	1.35		104.43		0.01		104.55
Total	**0.07**	**0.07**	**0.65**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**104.43**		**0.01**		**104.55**

3.7 Pipeline Paving - 2013

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	3.75	22.93	14.17	0.02		1.99	1.99		1.99	1.99	0.00	1,979.14		0.34		1,986.20
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.75**	**22.93**	**14.17**	**0.02**		**1.99**	**1.99**		**1.99**	**1.99**	**0.00**	**1,979.14**		**0.34**		**1,986.20**

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	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	0.65	0.00	0.01	0.00	0.01	0.00	0.00	0.01		104.43		0.01		104.55
Total	**0.07**	**0.07**	**0.65**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**104.43**		**0.01**		**104.55**

3.7 Pipeline Paving - 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	3.53	21.77	14.04	0.02		1.86	1.86		1.86	1.86		1,979.15		0.32		1,985.82
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.53**	**21.77**	**14.04**	**0.02**		**1.86**	**1.86**		**1.86**	**1.86**		**1,979.15**		**0.32**		**1,985.82**

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	0.06	0.59	0.00	13.65	0.00	13.65	1.35	0.00	1.35		101.57		0.01		101.68
Total	**0.07**	**0.06**	**0.59**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**101.57**		**0.01**		**101.68**

3.7 Pipeline Paving - 2014

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	3.53	21.77	14.04	0.02		1.86	1.86		1.86	1.86	0.00	1,979.15		0.32		1,985.82
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.53**	**21.77**	**14.04**	**0.02**		**1.86**	**1.86**		**1.86**	**1.86**	**0.00**	**1,979.15**		**0.32**		**1,985.82**

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	0.06	0.59	0.00	0.01	0.00	0.01	0.00	0.00	0.01		101.57		0.01		101.68
Total	**0.07**	**0.06**	**0.59**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**101.57**		**0.01**		**101.68**

3.7 Pipeline Paving - 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	3.31	20.42	13.93	0.02		1.72	1.72		1.72	1.72		1,979.14		0.30		1,985.40
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.31**	**20.42**	**13.93**	**0.02**		**1.72**	**1.72**		**1.72**	**1.72**		**1,979.14**		**0.30**		**1,985.40**

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	0.00	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	0.06	0.06	0.53	0.00	13.65	0.00	13.65	1.35	0.00	1.35		99.03		0.00		99.13
Total	**0.06**	**0.06**	**0.53**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**99.03**		**0.00**		**99.13**

3.7 Pipeline Paving - 2015

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	3.31	20.42	13.93	0.02		1.72	1.72		1.72	1.72	0.00	1,979.14		0.30		1,985.40
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.31**	**20.42**	**13.93**	**0.02**		**1.72**	**1.72**		**1.72**	**1.72**	**0.00**	**1,979.14**		**0.30**		**1,985.40**

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	0.00	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	0.06	0.06	0.53	0.00	0.01	0.00	0.01	0.00	0.00	0.01		99.03		0.00		99.13
Total	**0.06**	**0.06**	**0.53**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**99.03**		**0.00**		**99.13**

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

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	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
General Light Industry	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
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**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
General Light Industry	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
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**

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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	99.74	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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	99.74					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	**99.74**	**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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	99.74					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	**99.74**	**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

mwprs_facilities

Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	261.22677	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer’s estimates for the project.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Demolition -

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	17.49	136.81	84.08	0.14	25.33	7.02	32.35	13.25	7.02	20.27	0.00	14,646.10	0.00	1.57	0.00	14,679.08
2014	4.25	29.81	21.35	0.04	0.64	1.73	2.36	0.01	1.71	1.72	0.00	4,280.43	0.00	0.36	0.00	4,288.00
2015	3.89	27.22	20.86	0.04	0.64	1.54	2.17	0.01	1.52	1.54	0.00	4,275.48	0.00	0.33	0.00	4,282.43
2016	9.27	67.82	49.68	0.09	7.49	3.45	10.95	3.32	3.45	6.77	0.00	9,364.08	0.00	0.83	0.00	9,381.51
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					
2013	17.49	136.81	84.08	0.14	24.55	7.02	31.57	13.25	7.02	20.27	0.00	14,646.10	0.00	1.57	0.00	14,679.08
2014	4.25	29.81	21.35	0.04	0.04	1.73	1.76	0.01	1.71	1.72	0.00	4,280.43	0.00	0.36	0.00	4,288.00
2015	3.89	27.22	20.86	0.04	0.04	1.54	1.57	0.01	1.52	1.54	0.00	4,275.48	0.00	0.33	0.00	4,282.43
2016	9.27	67.82	49.68	0.09	6.89	3.45	10.34	3.32	3.45	6.77	0.00	9,364.08	0.00	0.83	0.00	9,381.51
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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Mobile	0.00	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	**5.74**	**1.38**	**1.16**	**0.01**	**0.00**	**0.00**	**0.10**	**0.00**	**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Mobile	0.00	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	**5.74**	**1.38**	**1.16**	**0.01**	**0.00**	**0.00**	**0.10**	**0.00**	**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Facilities Demolition (Early Phase) - 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					
Fugitive Dust					0.20	0.00	0.20	0.00	0.00	0.00						0.00
Off-Road	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51		5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**	**0.20**	**2.51**	**2.71**	**0.00**	**2.51**	**2.51**		**5,252.38**		**0.56**		**5,264.19**

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	0.01	0.13	0.05	0.00	0.22	0.00	0.23	0.00	0.00	0.00		19.19		0.00		19.20
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	0.08	0.07	0.83	0.00	0.18	0.00	0.19	0.00	0.00	0.01		139.70		0.01		139.85
Total	**0.09**	**0.20**	**0.88**	**0.00**	**0.40**	**0.00**	**0.42**	**0.00**	**0.00**	**0.01**		**158.89**		**0.01**		**159.05**

3.2 Facilities Demolition (Early Phase) - 2013

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					0.20	0.00	0.20	0.00	0.00	0.00						0.00
Off-Road	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51	0.00	5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**	**0.20**	**2.51**	**2.71**	**0.00**	**2.51**	**2.51**	**0.00**	**5,252.38**		**0.56**		**5,264.19**

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	0.01	0.13	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00		19.19		0.00		19.20
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	0.08	0.07	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.01		139.70		0.01		139.85
Total	**0.09**	**0.20**	**0.88**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**158.89**		**0.01**		**159.05**

3.3 Facilities Site Preparation - 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					
Fugitive Dust					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	6.70	54.15	30.68	0.05		2.66	2.66		2.66	2.66		5,413.51		0.60		5,426.15
Total	**6.70**	**54.15**	**30.68**	**0.05**	**18.07**	**2.66**	**20.73**	**9.93**	**2.66**	**12.59**		**5,413.51**		**0.60**		**5,426.15**

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	0.10	0.09	1.00	0.00	0.22	0.01	0.22	0.00	0.00	0.01		167.65		0.01		167.82
Total	**0.10**	**0.09**	**1.00**	**0.00**	**0.22**	**0.01**	**0.22**	**0.00**	**0.00**	**0.01**		**167.65**		**0.01**		**167.82**

3.3 Facilities Site Preparation - 2013

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					18.07	0.00	18.07	9.93	0.00	9.93						0.00
Off-Road	6.70	54.15	30.68	0.05		2.66	2.66		2.66	2.66	0.00	5,413.51		0.60		5,426.15
Total	**6.70**	**54.15**	**30.68**	**0.05**	**18.07**	**2.66**	**20.73**	**9.93**	**2.66**	**12.59**	**0.00**	**5,413.51**		**0.60**		**5,426.15**

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	0.10	0.09	1.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01		167.65		0.01		167.82
Total	**0.10**	**0.09**	**1.00**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**	**0.01**		**167.65**		**0.01**		**167.82**

3.4 Facilities Grading (Early Phase) - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	4.26	32.75	20.78	0.03		1.83	1.83		1.83	1.83		3,513.97		0.38		3,522.00
Total	**4.26**	**32.75**	**20.78**	**0.03**	**6.26**	**1.83**	**8.09**	**3.31**	**1.83**	**5.14**		**3,513.97**		**0.38**		**3,522.00**

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	0.08	0.07	0.83	0.00	0.18	0.00	0.19	0.00	0.00	0.01		139.70		0.01		139.85
Total	**0.08**	**0.07**	**0.83**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**139.70**		**0.01**		**139.85**

3.4 Facilities Grading (Early Phase) - 2013

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					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	4.26	32.75	20.78	0.03		1.83	1.83		1.83	1.83	0.00	3,513.97		0.38		3,522.00
Total	**4.26**	**32.75**	**20.78**	**0.03**	**6.26**	**1.83**	**8.09**	**3.31**	**1.83**	**5.14**	**0.00**	**3,513.97**		**0.38**		**3,522.00**

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	0.08	0.07	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.01		139.70		0.01		139.85
Total	**0.08**	**0.07**	**0.83**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**139.70**		**0.01**		**139.85**

3.5 Facilities 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	4.01	25.89	17.72	0.03		1.74	1.74		1.74	1.74		2,982.97		0.36		2,990.49
Total	**4.01**	**25.89**	**17.72**	**0.03**		**1.74**	**1.74**		**1.74**	**1.74**		**2,982.97**		**0.36**		**2,990.49**

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	0.51	6.24	2.92	0.01	0.36	0.18	0.54	0.01	0.17	0.18		1,088.79		0.02		1,089.30
Worker	0.13	0.11	1.27	0.00	0.28	0.01	0.28	0.00	0.01	0.01		214.21		0.01		214.44
Total	**0.64**	**6.35**	**4.19**	**0.01**	**0.64**	**0.19**	**0.82**	**0.01**	**0.18**	**0.19**		**1,303.00**		**0.03**		**1,303.74**

3.5 Facilities Building Construction - 2013

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	4.01	25.89	17.72	0.03		1.74	1.74		1.74	1.74	0.00	2,982.97		0.36		2,990.49
Total	**4.01**	**25.89**	**17.72**	**0.03**		**1.74**	**1.74**		**1.74**	**1.74**	**0.00**	**2,982.97**		**0.36**		**2,990.49**

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	0.51	6.24	2.92	0.01	0.03	0.18	0.21	0.01	0.17	0.18		1,088.79		0.02		1,089.30
Worker	0.13	0.11	1.27	0.00	0.01	0.01	0.02	0.00	0.01	0.01		214.21		0.01		214.44
Total	**0.64**	**6.35**	**4.19**	**0.01**	**0.04**	**0.19**	**0.23**	**0.01**	**0.18**	**0.19**		**1,303.00**		**0.03**		**1,303.74**

3.5 Facilities 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	3.67	24.00	17.51	0.03		1.55	1.55		1.55	1.55		2,982.97		0.33		2,989.86
Total	**3.67**	**24.00**	**17.51**	**0.03**		**1.55**	**1.55**		**1.55**	**1.55**		**2,982.97**		**0.33**		**2,989.86**

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	0.46	5.70	2.69	0.01	0.36	0.16	0.52	0.01	0.15	0.16		1,089.01		0.02		1,089.48
Worker	0.12	0.10	1.15	0.00	0.28	0.01	0.28	0.00	0.01	0.01		208.45		0.01		208.66
Total	**0.58**	**5.80**	**3.84**	**0.01**	**0.64**	**0.17**	**0.80**	**0.01**	**0.16**	**0.17**		**1,297.46**		**0.03**		**1,298.14**

3.5 Facilities Building Construction - 2014

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	3.67	24.00	17.51	0.03		1.55	1.55		1.55	1.55	0.00	2,982.97		0.33		2,989.86
Total	**3.67**	**24.00**	**17.51**	**0.03**		**1.55**	**1.55**		**1.55**	**1.55**	**0.00**	**2,982.97**		**0.33**		**2,989.86**

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	0.46	5.70	2.69	0.01	0.03	0.16	0.19	0.01	0.15	0.16		1,089.01		0.02		1,089.48
Worker	0.12	0.10	1.15	0.00	0.01	0.01	0.02	0.00	0.01	0.01		208.45		0.01		208.66
Total	**0.58**	**5.80**	**3.84**	**0.01**	**0.04**	**0.17**	**0.21**	**0.01**	**0.16**	**0.17**		**1,297.46**		**0.03**		**1,298.14**

3.5 Facilities 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	3.35	21.89	17.33	0.03		1.38	1.38		1.38	1.38		2,982.97		0.30		2,989.30
Total	**3.35**	**21.89**	**17.33**	**0.03**		**1.38**	**1.38**		**1.38**	**1.38**		**2,982.97**		**0.30**		**2,989.30**

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	0.43	5.23	2.48	0.01	0.36	0.15	0.51	0.01	0.14	0.15		1,089.20		0.02		1,089.63
Worker	0.11	0.09	1.04	0.00	0.28	0.01	0.28	0.00	0.01	0.01		203.30		0.01		203.49
Total	**0.54**	**5.32**	**3.52**	**0.01**	**0.64**	**0.16**	**0.79**	**0.01**	**0.15**	**0.16**		**1,292.50**		**0.03**		**1,293.12**

3.5 Facilities Building Construction - 2015

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	3.35	21.89	17.33	0.03		1.38	1.38		1.38	1.38	0.00	2,982.97		0.30		2,989.30
Total	**3.35**	**21.89**	**17.33**	**0.03**		**1.38**	**1.38**		**1.38**	**1.38**	**0.00**	**2,982.97**		**0.30**		**2,989.30**

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	0.43	5.23	2.48	0.01	0.03	0.15	0.18	0.01	0.14	0.15		1,089.20		0.02		1,089.63
Worker	0.11	0.09	1.04	0.00	0.01	0.01	0.02	0.00	0.01	0.01		203.30		0.01		203.49
Total	**0.54**	**5.32**	**3.52**	**0.01**	**0.04**	**0.16**	**0.20**	**0.01**	**0.15**	**0.16**		**1,292.50**		**0.03**		**1,293.12**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 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					
Fugitive Dust					0.32	0.00	0.32	0.00	0.00	0.00						0.00
Off-Road	5.59	41.70	28.91	0.05		2.10	2.10		2.10	2.10		5,533.57		0.50		5,544.11
Total	**5.59**	**41.70**	**28.91**	**0.05**	**0.32**	**2.10**	**2.42**	**0.00**	**2.10**	**2.10**		**5,533.57**		**0.50**		**5,544.11**

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	0.01	0.08	0.03	0.00	0.22	0.00	0.22	0.00	0.00	0.00		15.39		0.00		15.39
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	0.08	0.06	0.75	0.00	0.22	0.01	0.22	0.00	0.00	0.01		155.41		0.01		155.55
Total	**0.09**	**0.14**	**0.78**	**0.00**	**0.44**	**0.01**	**0.44**	**0.00**	**0.00**	**0.01**		**170.80**		**0.01**		**170.94**

3.6 Facilities Demolition (Late Phase at SMD1 WWTP) - 2016

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					0.32	0.00	0.32	0.00	0.00	0.00						0.00
Off-Road	5.59	41.70	28.91	0.05		2.10	2.10		2.10	2.10	0.00	5,533.57		0.50		5,544.11
Total	**5.59**	**41.70**	**28.91**	**0.05**	**0.32**	**2.10**	**2.42**	**0.00**	**2.10**	**2.10**	**0.00**	**5,533.57**		**0.50**		**5,544.11**

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	0.01	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		15.39		0.00		15.39
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	0.08	0.06	0.75	0.00	0.01	0.01	0.01	0.00	0.00	0.01		155.41		0.01		155.55
Total	**0.09**	**0.14**	**0.78**	**0.00**	**0.01**	**0.01**	**0.01**	**0.00**	**0.00**	**0.01**		**170.80**		**0.01**		**170.94**

3.7 Facilities SMD1 Basin Grading - 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					
Fugitive Dust					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	3.53	25.92	19.36	0.03		1.35	1.35		1.35	1.35		3,530.19		0.32		3,536.83
Total	**3.53**	**25.92**	**19.36**	**0.03**	**6.55**	**1.35**	**7.90**	**3.31**	**1.35**	**4.66**		**3,530.19**		**0.32**		**3,536.83**

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	0.05	0.63	0.00	0.18	0.00	0.19	0.00	0.00	0.01		129.51		0.01		129.63
Total	**0.07**	**0.05**	**0.63**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**129.51**		**0.01**		**129.63**

3.7 Facilities SMD1 Basin Grading - 2016

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					6.55	0.00	6.55	3.31	0.00	3.31						0.00
Off-Road	3.53	25.92	19.36	0.03		1.35	1.35		1.35	1.35	0.00	3,530.19		0.32		3,536.83
Total	**3.53**	**25.92**	**19.36**	**0.03**	**6.55**	**1.35**	**7.90**	**3.31**	**1.35**	**4.66**	**0.00**	**3,530.19**		**0.32**		**3,536.83**

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	0.05	0.63	0.00	0.01	0.00	0.01	0.00	0.00	0.01		129.51		0.01		129.63
Total	**0.07**	**0.05**	**0.63**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**129.51**		**0.01**		**129.63**

3.8 Facilities 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	0.07	0.05	0.63	0.00	0.18	0.00	0.19	0.00	0.00	0.01		129.51		0.01		129.63
Total	**0.07**	**0.05**	**0.63**	**0.00**	**0.18**	**0.00**	**0.19**	**0.00**	**0.00**	**0.01**		**129.51**		**0.01**		**129.63**

3.8 Facilities Paving - 2016

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	0.07	0.05	0.63	0.00	0.01	0.00	0.01	0.00	0.00	0.01		129.51		0.01		129.63
Total	**0.07**	**0.05**	**0.63**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**129.51**		**0.01**		**129.63**

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

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	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
NaturalGas Unmitigated	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
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					
General Light Industry	14034.7	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Total		**0.15**	**1.38**	**1.16**	**0.01**		**0.00**	**0.10**		**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
General Light Industry	14.0347	0.15	1.38	1.16	0.01		0.00	0.10		0.00	0.10		1,651.14		0.03	0.03	1,661.19
Total		**0.15**	**1.38**	**1.16**	**0.01**		**0.00**	**0.10**		**0.00**	**0.10**		**1,651.14**		**0.03**	**0.03**	**1,661.19**

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	5.59	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	5.59	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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.59					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	**5.59**	**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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	5.59					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	**5.59**	**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

mwprs_pipelines

Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	4660.92	1000sqft

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	2	**Precipitation Freq (Days)**	74		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Non-default values are based on the engineer's estimates for the project.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer's estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default values are based on the engineer’s estimates for the project.

Off-road Equipment - Non-default values are based on the engineer’s estimates for the project. Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.

Off-road Equipment - Non-default load factors are from Off-Road 2011, 2010 document, Appendix D.0.42

Grading - Non-default values are based on the engineer’s estimates for the project.

Trips and VMT - Non-default values are based on the engineer’s estimates for the project.

On-road Fugitive Dust - Non-default values are based on the engineer’s estimates for the project.

Architectural Coating - Non-default values are based on the engineer’s estimates for the project.

Vehicle Trips - Non-default values are based on the engineer’s estimates for the project.

Road Dust - Non-default values are based on the engineer’s estimates for the project.

Consumer Products - Non-default values are based on the engineer’s estimates for the project.

Area Coating - Non-default values are based on the engineer’s estimates for the project.

Landscape Equipment - Non-default values are based on the engineer’s estimates for the project.

Energy Use - Non-default values are based on the engineer’s estimates for the project.

Water And Wastewater - Non-default values are based on the engineer’s estimates for the project.

Solid Waste - Non-default values are based on the engineer’s estimates for the project.

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					
2013	10.15	72.61	45.63	0.07	35.87	4.51	40.38	3.55	4.51	8.05	0.00	7,492.31	0.00	0.91	0.00	7,511.45
2014	9.58	68.27	44.31	0.07	35.87	4.17	40.04	3.55	4.17	7.71	0.00	7,485.29	0.00	0.86	0.00	7,503.31
2015	9.00	63.28	43.11	0.07	35.87	3.83	39.70	3.55	3.83	7.37	0.00	7,479.03	0.00	0.81	0.00	7,495.96
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					
2013	10.15	72.61	45.63	0.07	0.01	4.51	4.52	0.00	4.51	4.51	0.00	7,492.31	0.00	0.91	0.00	7,511.45
2014	9.58	68.27	44.31	0.07	0.01	4.17	4.18	0.00	4.17	4.17	0.00	7,485.29	0.00	0.86	0.00	7,503.31
2015	9.00	63.28	43.11	0.07	0.01	3.83	3.84	0.00	3.83	3.83	0.00	7,479.03	0.00	0.81	0.00	7,495.96
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

There are no operational emissions associated with the pipeline component of the project. The operations should be zero. This is considered a mistake by CalEEMod which attributes these emissions with use of consumer products. There will be no increase in consumer products as a result of the pipeline operations.

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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Mobile	0.00	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	**99.74**	**0.00**	**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 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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Energy	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Mobile	0.00	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	**99.74**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**		**0.00**		**0.00**	**0.00**	**0.00**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					
Fugitive Dust					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		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**

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**

3.2 Site Preparation - 2013

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					0.00	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	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**		**0.00**

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**

3.3 Grading - 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					
Fugitive Dust					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		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**

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**

3.3 Grading - 2013

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					0.00	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	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**		**0.00**

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**

3.4 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	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**

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**

3.4 Building Construction - 2013

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	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**

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**

3.5 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	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		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**

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**

3.5 Architectural Coating - 2013

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	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	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**

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**

3.6 Pipeline Trenching - 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	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51		5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**		**2.51**	**2.51**		**2.51**	**2.51**		**5,252.38**		**0.56**		**5,264.19**

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	0.08	0.07	0.83	0.00	22.22	0.00	22.22	2.20	0.00	2.20		139.70		0.01		139.85
Total	**0.08**	**0.07**	**0.83**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**139.70**		**0.01**		**139.85**

3.6 Pipeline Trenching - 2013

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	6.25	49.54	29.91	0.05		2.51	2.51		2.51	2.51	0.00	5,252.38		0.56		5,264.19
Total	**6.25**	**49.54**	**29.91**	**0.05**		**2.51**	**2.51**		**2.51**	**2.51**	**0.00**	**5,252.38**		**0.56**		**5,264.19**

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	0.08	0.07	0.83	0.00	0.01	0.00	0.01	0.00	0.00	0.01		139.70		0.01		139.85
Total	**0.08**	**0.07**	**0.83**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**139.70**		**0.01**		**139.85**

3.6 Pipeline Trenching - 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	5.91	46.38	28.87	0.05		2.30	2.30		2.30	2.30		5,252.38		0.53		5,263.48
Total	**5.91**	**46.38**	**28.87**	**0.05**		**2.30**	**2.30**		**2.30**	**2.30**		**5,252.38**		**0.53**		**5,263.48**

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	0.08	0.06	0.75	0.00	22.22	0.00	22.22	2.20	0.00	2.20		135.94		0.01		136.08
Total	**0.08**	**0.06**	**0.75**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**135.94**		**0.01**		**136.08**

3.6 Pipeline Trenching - 2014

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	5.91	46.38	28.87	0.05		2.30	2.30		2.30	2.30	0.00	5,252.38		0.53		5,263.48
Total	**5.91**	**46.38**	**28.87**	**0.05**		**2.30**	**2.30**		**2.30**	**2.30**	**0.00**	**5,252.38**		**0.53**		**5,263.48**

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	0.08	0.06	0.75	0.00	0.01	0.00	0.01	0.00	0.00	0.01		135.94		0.01		136.08
Total	**0.08**	**0.06**	**0.75**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**135.94**		**0.01**		**136.08**

3.6 Pipeline Trenching - 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	5.56	42.75	27.91	0.05		2.10	2.10		2.10	2.10		5,252.38		0.50		5,262.83
Total	**5.56**	**42.75**	**27.91**	**0.05**		**2.10**	**2.10**		**2.10**	**2.10**		**5,252.38**		**0.50**		**5,262.83**

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	0.06	0.68	0.00	22.22	0.00	22.22	2.20	0.00	2.20		132.59		0.01		132.71
Total	**0.07**	**0.06**	**0.68**	**0.00**	**22.22**	**0.00**	**22.22**	**2.20**	**0.00**	**2.20**		**132.59**		**0.01**		**132.71**

3.6 Pipeline Trenching - 2015

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	5.56	42.75	27.91	0.05		2.10	2.10		2.10	2.10	0.00	5,252.38		0.50		5,262.83
Total	**5.56**	**42.75**	**27.91**	**0.05**		**2.10**	**2.10**		**2.10**	**2.10**	**0.00**	**5,252.38**		**0.50**		**5,262.83**

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	0.06	0.68	0.00	0.01	0.00	0.01	0.00	0.00	0.01		132.59		0.01		132.71
Total	**0.07**	**0.06**	**0.68**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**132.59**		**0.01**		**132.71**

3.7 Pipeline Paving - 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	3.75	22.93	14.17	0.02		1.99	1.99		1.99	1.99		1,979.14		0.34		1,986.20
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.75**	**22.93**	**14.17**	**0.02**		**1.99**	**1.99**		**1.99**	**1.99**		**1,979.14**		**0.34**		**1,986.20**

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	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	0.06	0.72	0.00	13.65	0.00	13.65	1.35	0.00	1.35		121.08		0.01		121.21
Total	**0.07**	**0.06**	**0.72**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**121.08**		**0.01**		**121.21**

3.7 Pipeline Paving - 2013

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	3.75	22.93	14.17	0.02		1.99	1.99		1.99	1.99	0.00	1,979.14		0.34		1,986.20
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.75**	**22.93**	**14.17**	**0.02**		**1.99**	**1.99**		**1.99**	**1.99**	**0.00**	**1,979.14**		**0.34**		**1,986.20**

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	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	0.06	0.72	0.00	0.01	0.00	0.01	0.00	0.00	0.01		121.08		0.01		121.21
Total	**0.07**	**0.06**	**0.72**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**121.08**		**0.01**		**121.21**

3.7 Pipeline Paving - 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	3.53	21.77	14.04	0.02		1.86	1.86		1.86	1.86		1,979.15		0.32		1,985.82
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.53**	**21.77**	**14.04**	**0.02**		**1.86**	**1.86**		**1.86**	**1.86**		**1,979.15**		**0.32**		**1,985.82**

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	0.06	0.65	0.00	13.65	0.00	13.65	1.35	0.00	1.35		117.82		0.01		117.94
Total	**0.07**	**0.06**	**0.65**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**117.82**		**0.01**		**117.94**

3.7 Pipeline Paving - 2014

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	3.53	21.77	14.04	0.02		1.86	1.86		1.86	1.86	0.00	1,979.15		0.32		1,985.82
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.53**	**21.77**	**14.04**	**0.02**		**1.86**	**1.86**		**1.86**	**1.86**	**0.00**	**1,979.15**		**0.32**		**1,985.82**

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	0.06	0.65	0.00	0.01	0.00	0.01	0.00	0.00	0.01		117.82		0.01		117.94
Total	**0.07**	**0.06**	**0.65**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**117.82**		**0.01**		**117.94**

3.7 Pipeline Paving - 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	3.31	20.42	13.93	0.02		1.72	1.72		1.72	1.72		1,979.14		0.30		1,985.40
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.31**	**20.42**	**13.93**	**0.02**		**1.72**	**1.72**		**1.72**	**1.72**		**1,979.14**		**0.30**		**1,985.40**

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	0.00	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	0.06	0.05	0.59	0.00	13.65	0.00	13.65	1.35	0.00	1.35		114.91		0.01		115.02
Total	**0.06**	**0.05**	**0.59**	**0.00**	**13.65**	**0.00**	**13.65**	**1.35**	**0.00**	**1.35**		**114.91**		**0.01**		**115.02**

3.7 Pipeline Paving - 2015

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	3.31	20.42	13.93	0.02		1.72	1.72		1.72	1.72	0.00	1,979.14		0.30		1,985.40
Paving	0.00					0.00	0.00		0.00	0.00						0.00
Total	**3.31**	**20.42**	**13.93**	**0.02**		**1.72**	**1.72**		**1.72**	**1.72**	**0.00**	**1,979.14**		**0.30**		**1,985.40**

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	0.00	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	0.06	0.05	0.59	0.00	0.01	0.00	0.01	0.00	0.00	0.01		114.91		0.01		115.02
Total	**0.06**	**0.05**	**0.59**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.01**		**114.91**		**0.01**		**115.02**

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
General Light Industry	0.00	0.00	0.00	0.00	0.00	0.00

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	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
NaturalGas Unmitigated	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
General Light Industry	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
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**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
General Light Industry	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
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**

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	99.74	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00		0.00
Unmitigated	99.74	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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	99.74					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	**99.74**	**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	0.00					0.00	0.00		0.00	0.00						0.00
Consumer Products	99.74					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	**99.74**	**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

Predicted Peek Daily Unmitigated Pipeline Construction Emissions							
2013	**Total Miles**	**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
Auburn Alternative Alignment	4	2.56	18.24	11.458	0.0176	10.14	2.021
Auburn Preferred Alignment	2.97	1.9008	13.54	8.5073	0.0131	7.528	1.501
Common Preferred Alignment (Turkey Creek)	6.67	4.2688	30.41	19.106	0.0293	16.91	3.371
Common Alternative Alignment (Fowler Road)	6.17	3.9488	28.13	17.673	0.0271	15.64	3.118
Common Alternative Alignment Coyote Lane (includes Bickford Pipeline Existing Alignment)	5.97	3.8208	27.22	17.101	0.0262	15.13	3.017
SMD1 Alternative Alignment	7.99	5.1136	36.43	22.887	0.0351	20.25	4.038
SMD1 Preferred Alignment	6.29	4.0256	28.68	18.017	0.0276	15.94	3.179
Total Unmitigated Emissions (lb/day) Preferred Pipeline Route	**15.93**	10.15	72.63	45.63	0.07	40.38	8.05
Emissions Per Mile		0.64	4.559	2.8644	0.0044	2.535	0.505
2014		**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
Auburn Alternative Alignment	4	2.4	17.15	11.126	0.0176	10.05	1.936
Auburn Preferred Alignment	2.97	1.782	12.73	8.2612	0.0131	7.465	1.437
Common Preferred Alignment (Turkey Creek)	6.67	4.002	28.59	18.553	0.0293	16.77	3.228
Common Alternative Alignment (Fowler Road)	6.17	3.702	26.45	17.162	0.0271	15.51	2.986
Common Alternative Alignment Coyote Lane (includes Bickford Pipeline Existing Alignment)	5.97	3.582	25.59	16.606	0.0262	15.01	2.889
SMD1 Alternative Alignment	7.99	4.794	34.25	22.225	0.0351	20.08	3.867
SMD1 Preferred Alignment	6.29	3.774	26.96	17.496	0.0276	15.81	3.044
Total Unmitigated Emissions (lb/day) Preferred Pipeline Route	**15.93**	9.58	68.28	44.31	0.07	40.04	7.71
Emissions Per Mile		0.6	4.286	2.7815	0.0044	2.513	0.484
2015		**ROG**	**NOx**	**CO**	**SOx**	**PM10**	**PM2.5**
Auburn Alternative Alignment	4	2.24	15.89	10.825	0.0176	9.969	1.851
Auburn Preferred Alignment	2.97	1.6632	11.8	8.0375	0.0131	7.402	1.374
Common Preferred Alignment (Turkey Creek)	6.67	3.7352	26.5	18.05	0.0293	16.62	3.086
Common Alternative Alignment (Fowler Road)	6.17	3.4552	24.51	16.697	0.0271	15.38	2.855
Common Alternative Alignment Coyote Lane (includes Bickford Pipeline Existing Alignment)	5.97	3.3432	23.72	16.156	0.0262	14.88	2.762
SMD1 Alternative Alignment	7.99	4.4744	31.74	21.623	0.0351	19.91	3.697
SMD1 Preferred Alignment	6.29	3.5224	24.99	17.022	0.0276	15.68	2.91
Total Unmitigated Emissions (lb/day) Total Preferred Pipeline Route	**15.93**	9	63.29	43.11	0.07	39.7	7.37
Emissions Per Mile		0.56	3.973	2.7062	0.0044	2.492	0.463

Assumptions for Regional Sewer Project CalEEMod Emissions Estimates

Construction phases listed below are based on project engineer estimates.

Construction Phases	Approximate Length of Phase	Approximate Starting Date	Approximate Ending Date	Approximate Days Per Week of Construction
Pipeline Trenching	390 days	9/1/2013	2/28/2015	5
Pipeline Paving	390 days	9/1/2013	2/28/2015	5
Facilities Demolition (Early Phase)	44 days	9/1/2013	10/31/2013	5
Facilities Site Preparation	22 days	9/15/2013	10/15/2013	5
Facilities Grading (Early Phase)	45 days	9/15/2013	11/15/2013	5
Facilities Building Construction	500 days	11/15/2013	10/15/2015	5
Facilities Paving	22 days	10/15/2016	11/15/2016	5
Facilities Demolition (Late Phase at SMD1 WWTP)	55 days	4/15/2016	6/30/2016	5
Facilities SMD1 Basin Grading	43 days	6/1/2016	7/31/2016	5

Construction Equipment: CalEEMod default construction equipment was used. Non-default load factors were used based on Off-Road 2011, 2010 document, Appendix D, PG. 10

Demolition: Total Buildings Demolished = 26,758 square feet (8,919 sq. ft. for early stage and 17,839 sq. ft. for late stage at SMD1 WWTP)

General Construction Information: Unless noted below, CalEEMod default values were used for Equipment Fleet Mix, Trips and VMT, Daily Disturbed Acreage, On-road Fugitive Dust, and Road Dust. Use of Non-default values was based on project engineer estimates (listed below). Area Coating is not part of the proposed project.

Phase Name	# Trips Worker (/day)	# Trips Vendor (/day)	Total # Trips Hauling	Trip Length Worker (miles)	Trip Length Vendor (miles)	Trip Length Hauling (miles)	Mean Vehicle Speed
Pipeline Trenching	Used CalEEMod Default	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	10
Pipeline Paving	13	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	5
Facilities Demolition (Early Phase)	Used CalEEMod Default	Used CalEEMod Default	20	10	Used CalEEMod Default	9.5	20
Facilities Site Preparation	Used CalEEMod Default	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	15
Facilities Grading (Early Phase)	Used CalEEMod Default	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	15
Facilities Building Construction	23	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	20
Facilities Demolition (Late Phase at SMD1 WWTP)	Used CalEEMod Default	Used CalEEMod Default	20	10	Used CalEEMod Default	9.5	20
Facilities SMD1 Basin Grading	Used CalEEMod Default	Used CalEEMod Default	Used CalEEMod Default	10	Used CalEEMod Default	9.5	10
Facilities Paving	Used CalEEMod Default	Used CalEEMod Default	60	10	Used CalEEMod Default	9.5	5

Operations
Weekday Trips = 4 per day
Mean Vehicle Speed= 7.5 mph
No additional landscaping maintenance needed as a result of the proposed project.
Indoor Water Use = 21,275 gal/year
Outdoor Water Use = 36,500 gal/year
Electricity Intensity Factor for Wastewater Treatment = 1,911 kWhr/Mgal
100% Aerobic
Solid Waste Generation Rate = 3,194 tons per year
Landfill No Gas Capture = 100%

CDFW* Records Search

Appendix B

California Department of Fish and Game
Natural Diversity Database
Lincoln Regional Sewer Project CNDDB Wide Tabular Report

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Accipiter cooperii Cooper's hawk	G5 S3	CDFG:	Fed: None Cal None	102 S:1	0	0	0	0	0	1	1	0	1	0	0
Accipiter gentilis northern goshawk	G5 S3	CDFG: SC	Fed: None Cal None	427 S:13	1	4	2	0	0	6	6	7	13	0	0
Agelaius tricolor tricolored blackbird	G2G3 S2	CDFG: SC	Fed: None Cal None	428 S:3	1	1	0	0	1	0	1	2	2	1	0
Alkali Meadow	G3 S2.1		Fed: None Cal None	8 S:1	0	0	0	0	0	1	1	0	1	0	0
Alkali Seep	G3 S2.1		Fed: None Cal None	10 S:1	0	0	0	0	0	1	1	0	1	0	0
Allium jepsonii Jepson's onion	G1 S1.2	CNPS: 1B.2	Fed: None Cal None	27 S:1	0	1	0	0	0	0	0	1	1	0	0
Ammodramus savannarum grasshopper sparrow	G5 S2	CDFG: SC	Fed: None Cal None	16 S:1	0	1	0	0	0	0	0	1	1	0	0
Andrena subapasta A vernal pool andrenid bee	G1G3 S1S3	CDFG:	Fed: None Cal None	5 S:2	0	0	0	0	0	2	2	0	2	0	0
Androsace occidentalis var. simplex simple androsace	G5T5 S1.3	CNPS: 2.3	Fed: None Cal None	1	0	0	0	0	0	1	1	0	1	0	0
Aplodontia rufa californica Sierra Nevada mountain beaver	G5T3T4 S2S3	CDFG: SC	Fed: None Cal None	16 S:10	0	1	0	0	0	9	10	0	10	0	0
Arabis rigidissima var. demota Galena Creek rock-cress	G3T2Q S1.2	CNPS: 1B.2	Fed: None Cal None	2	0	0	2	0	0	0	2	0	2	0	0
Ardea herodias great blue heron	G5 S4	CDFG:	Fed: None Cal None	132 S:1	1	0	0	0	0	0	1	0	1	0	0
Athene cunicularia burrowing owl	G4 S2	CDFG: SC	Fed: None Cal None	1808 S:4	1	2	0	0	0	1	0	4	4	0	0
Balsamorhiza macrolepis var. macrolepis big-scale balsamroot	G3G4T2 S2	CNPS: 1B.2	Fed: None Cal None	38 S:3	0	0	0	0	1	2	3	0	2	1	0
Banksula galilei Galile's cave harvestman	G1 S1	CDFG:	Fed: None Cal None	1	0	0	0	0	0	1	1	0	1	0	0

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Big Tree Forest	G3 S3.2		Fed: None Cal None	68 S:1	0	0	0	0	0	1	1	0	1	0	0
Botrychium crenulatum scalloped moonwort	G3 S2.2	CNPS: 2.2	Fed: None Cal None	59 S:3	0	1	1	0	0	1	0	3	3	0	0
Botrychium minganense mingan moonwort	G4 S1.2	CNPS: 2.2	Fed: None Cal None	28 S:1	0	0	1	0	0	0	0	1	1	0	0
Branchinecta conservatio Conservancy fairy shrimp	G1 S1	CDFG:	Fed: Endangered Cal None	34 S:1	0	1	0	0	0	0	0	1	1	0	0
Branchinecta lynchi vernal pool fairy shrimp	G3 S2S3	CDFG:	Fed: Threatened Cal None	608 S:45	4	13	6	0	1	21	0	45	44	0	1
Buteo swainsoni Swainson's hawk	G5 S2	CDFG:	Fed: None Cal Threatened	1730 S:7	0	1	1	0	0	5	0	7	7	0	0
Capnia lacustra Lake Tahoe benthic stonefly	G1 S1	CDFG:	Fed: None Cal None	1	0	0	0	0	0	1	0	1	1	0	0
Carex davyi Davy's sedge	G2 S2	CNPS: 1B.3	Fed: None Cal None	19 S:2	0	1	0	0	0	1	1	1	2	0	0
Carex lasiocarpa woolly-fruited sedge	G5 S1.3?	CNPS: 2.3	Fed: None Cal None	15 S:1	0	0	0	0	0	1	0	1	1	0	0
Carex praticola northern meadow sedge	G5 S2S3	CNPS: 2.2	Fed: None Cal None	11 S:1	0	0	0	0	0	1	0	1	1	0	0
Carex sheldonii Sheldon's sedge	G4 S3	CNPS: 2.2	Fed: None Cal None	41 S:1	0	0	0	0	0	1	1	0	1	0	0
Chlorogalum grandiflorum Red Hills soaproot	G3 S3	CNPS: 1B.2	Fed: None Cal None	69 S:9	0	7	1	0	0	1	1	8	9	0	0
Chloropyron molle ssp. hispidum hispid bird's-beak	G2T2 S2.1	CNPS: 1B.1	Fed: None Cal None	35 S:1	0	1	0	0	0	0	0	1	1	0	0
Clarkia biloba ssp. brandegeeae Brandegee's clarkia	G4G5T3 S3	CNPS: 1B.2	Fed: None Cal None	89 S:22	2	7	2	1	0	10	4	18	22	0	0
Corynorhinus townsendii Townsend's big-eared bat	G4 S2S3	CDFG: SC	Fed: None Cal None	237 S:1	0	0	0	0	0	1	0	1	1	0	0

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Cryptochia excella Kings Canyon cryptochian caddisfly	G1G2 S1S2	CDFG:	Fed: None Cal None	2 S:1	0	0	0	0	0	1	1	0	1	0	0
Cypseloides niger black swift	G4 S2	CDFG: SC	Fed: None Cal None	46 S:3	0	0	0	0	0	3	2	1	3	0	0
Dendroica petechia brewsteri yellow warbler	G5T3? S2	CDFG: SC	Fed: None Cal None	48 S:2	0	0	0	0	0	2	2	0	2	0	0
Desmocerus californicus dimorphus valley elderberry longhorn beetle	G3T2 S2	CDFG:	Fed: Threatened Cal None	201 S:7	3	0	1	1	0	2	5	2	7	0	0
Desmona bethula amphibious caddisfly	G2G3 S2S3	CDFG:	Fed: None Cal None	4 S:1	0	0	0	0	0	1	1	0	1	0	0
Downingia pusilla dwarf downingia	G2 S2	CNPS: 2.2	Fed: None Cal None	122 S:21	2	11	2	2	3	1	8	13	18	1	2
Elanus leucurus white-tailed kite	G5 S3	CDFG:	Fed: None Cal None	157 S:2	0	2	0	0	0	0	0	2	2	0	0
Empidonax traillii willow flycatcher	G5 S1S2	CDFG:	Fed: None Cal Endangered	87 S:6	1	2	2	0	0	1	2	4	6	0	0
Emys marmorata western pond turtle	G3G4 S3	CDFG: SC	Fed: None Cal None	1134 S:4	1	2	0	0	0	1	0	4	4	0	0
Erigeron miser starved daisy	G2 S2.3	CNPS: 1B.3	Fed: None Cal None	23 S:7	2	2	0	0	0	3	2	5	7	0	0
Eriogonum umbellatum var. torreyanum Donner Pass buckwheat	G5T2 S2.2	CNPS: 1B.2	Fed: None Cal None	21 S:7	0	1	0	0	1	5	7	0	6	1	0
Fritillaria agrestis stinkbells	G3 S3.2	CNPS: 4.2	Fed: None Cal None	32 S:1	0	0	0	0	1	0	1	0	0	1	0
Fritillaria eastwoodiae Butte County fritillary	G3Q S3	CNPS: 3.2	Fed: None Cal None	212 S:3	0	0	1	0	0	2	2	1	3	0	0
Glyceria grandis American manna grass	G5 S1.3?	CNPS: 2.3	Fed: None Cal None	11 S:2	0	0	0	0	0	2	1	1	2	0	0
Gratiola heterosepala Boggs Lake hedge-hyssop	G2 S2	CNPS: 1B.2	Fed: None Cal Endangered	89 S:4	0	2	1	0	1	0	3	1	3	0	1

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Gulo gulo California wolverine	G4 S1	CDFG:	Fed: Candidate Cal:Threatened	173 S:3	0	0	0	0	0	3	3	0	3	0	0
Haliaeetus leucocephalus bald eagle	G5 S2	CDFG:	Fed: Delisted Cal:Endangered	306 S:2	1	1	0	0	0	0	0	2	2	0	0
Helisoma newberryi Great Basin rams-horn	G1Q S1	CDFG:	Fed: None Cal:None	9 S:1	0	0	0	0	0	1	1	0	1	0	0
Histrionicus histrionicus harlequin duck	G4 S2	CDFG: SC	Fed: None Cal:None	1	1	0	0	0	0	0	1	0	1	0	0
Hydrochara rickseckeri Ricksecker's water scavenger beetle	G1G2 S1S2	CDFG:	Fed: None Cal:None	13 S:1	0	0	0	0	0	1	1	0	1	0	0
Ivesia sericoleuca Plumas ivesia	G2G3 S2S3	CNPS: 1B.2	Fed: None Cal:None	67 S:4	1	2	0	0	0	1	1	3	4	0	0
Juncus leiospermus var. ahartii Ahart's dwarf rush	G2T1 S1.2	CNPS: 1B.2	Fed: None Cal:None	13 S:1	0	0	1	0	0	0	1	0	1	0	0
Juncus leiospermus var. leiospermus Red Bluff dwarf rush	G2T2 S2.2	CNPS: 1B.1	Fed: None Cal:None	56 S:1	0	0	0	0	0	1	1	0	1	0	0
Juncus luciensis Santa Lucia dwarf rush	G2G3 S2S3	CNPS: 1B.2	Fed: None Cal:None	26 S:1	0	0	0	0	0	1	0	1	1	0	0
Laterallus jamaicensis coturniculus California black rail	G4T1 S1	CDFG:	Fed: None Cal:Threatened	236 S:2	1	0	0	0	0	1	0	2	2	0	0
Lathyrus sulphureus var. argillaceus dubious pea	G1G2 S1S2	CNPS: 3	Fed: None Cal:None	7 S:1	0	0	0	0	0	1	1	0	1	0	0
Legenere limosa legenere	G2 S2.2	CNPS: 1B.1	Fed: None Cal:None	78 S:3	0	1	0	0	1	1	2	1	2	0	1
Lepidurus packardi vernal pool tadpole shrimp	G3 S2S3	CDFG:	Fed: Endangered Cal:None	270 S:3	1	1	0	0	0	1	0	3	3	0	0
Lepus americanus tahoensis Sierra Nevada snowshoe hare	G5T3T4Q S2?	CDFG: SC	Fed: None Cal:None	12 S:3	0	0	0	0	0	3	3	0	3	0	0
Lepus townsendii townsendii western white-tailed jackrabbit	G5T5 S3?	CDFG: SC	Fed: None Cal:None	23 S:1	0	0	0	0	0	1	1	0	1	0	0

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks A	B	C	D	X	U	Population Status Historic >20 yr	Recent <=20 yr	Presence Pres. Extant	Poss. Extirp.	Extirp.
Lewisia longipetala long-petaled lewisia	G2 S2.2	CNPS: 1B.3	Fed: None Cal None	14 S:2	0	0	0	0	0	2	2	0	2	0	0
Lewisia serrata saw-toothed lewisia	G2 S2.2	CNPS: 1B.1	Fed: None Cal None	9 S:6	0	1	0	0	0	5	6	0	6	0	0
Linderiella occidentalis California linderiella	G3 S2S3	CDFG:	Fed: None Cal None	382 S:37	1	7	2	0	0	27	1	36	37	0	0
Lithobates pipiens northern leopard frog	G5 S2	CDFG: SC	Fed: None Cal None	22 S:1	0	0	0	0	0	1	1	0	1	0	0
Martes americana sierrae Sierra marten	G5T3T4 S3S4	CDFG:	Fed: None Cal None	111 S:8	0	0	1	0	0	7	8	0	8	0	0
Martes pennanti (pacifica) DPS Pacific fisher	G5 S2S3	CDFG: SC	Fed: Candidate Cal None	646 S:5	0	0	0	0	0	5	5	0	5	0	0
Megaleuctra sierra Shirttail Creek stonefly	G2Q S1?	CDFG:	Fed: None Cal None	1	0	0	0	0	0	1	1	0	1	0	0
Mielichhoferia elongata elongate copper moss	G4? S2	CNPS: 2.2	Fed: None Cal None	20 S:2	0	0	0	0	0	2	0	2	2	0	0
Monadenia mormonum buttoni Button's Sierra sideband	G1G2T1 S1	CDFG:	Fed: None Cal None	5 S:1	0	0	0	0	0	1	1	0	1	0	0
Myotis volans long-legged myotis	G5 S4?	CDFG:	Fed: None Cal None	113 S:1	0	1	0	0	0	0	0	1	1	0	0
Navarretia myersii ssp. myersii pincushion navarretia	G1T1 S1.1	CNPS: 1B.1	Fed: None Cal None	14 S:1	0	0	0	0	0	1	1	0	1	0	0
Northern Hardpan Vernal Pool	G3 S3.1		Fed: None Cal None	126 S:6	0	0	0	0	0	6	6	0	6	0	0
Northern Volcanic Mud Flow Vernal Pool	G1 S1.1		Fed: None Cal None	7 S:5	0	0	0	0	0	5	5	0	5	0	0
Ochotona princeps schisticeps gray-headed pika	G5T2T4 S2S4	CDFG:	Fed: None Cal None	328 S:3	0	1	0	0	0	2	2	1	3	0	0
Oncorhynchus clarkii henshawi Lahontan cutthroat trout	G4T3 S2	CDFG:	Fed: Threatened Cal None	27 S:4	0	0	0	0	3	1	2	2	1	0	3

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Orobittacus obscurus gold rush hanging scorpionfly	G1 S1	CDFG:	Fed: None Cal:None	2 S:1	0	0	0	0	0	1	1	0	1	0	0
Packera layneae Layne's ragwort	G2 S2	CNPS: 1B.2	Fed: Threatened Cal:Rare	47 S:1	0	0	0	0	0	1	0	1	1	0	0
Pandion haliaetus osprey	G5 S3	CDFG:	Fed: None Cal:None	482 S:7	6	0	1	0	0	0	0	7	7	0	0
Phacelia stebbinsii Stebbins' phacelia	G3 S3	CNPS: 1B.2	Fed: None Cal:None	45 S:26	2	20	0	0	0	4	23	3	26	0	0
Phrynosoma blainvillii coast horned lizard	G4G5 S3S4	CDFG: SC	Fed: None Cal:None	659 S:3	0	0	0	0	0	3	1	2	3	0	0
Poa sierrae Sierra blue grass	G2G3 S2S3	CNPS: 1B.3	Fed: None Cal:None	15 S:5	0	0	0	0	0	5	5	0	5	0	0
Progne subis purple martin	G5 S3	CDFG: SC	Fed: None Cal:None	45 S:1	0	1	0	0	0	0	0	1	1	0	0
Rana boylii foothill yellow-legged frog	G3 S2S3	CDFG: SC	Fed: None Cal:None	804 S:33	6	4	3	0	0	20	0	33	33	0	0
Rana draytonii California red-legged frog	G4T2T3 S2S3	CDFG: SC	Fed: Threatened Cal:None	1327 S:3	1	0	0	1	0	1	1	2	3	0	0
Rana sierrae Sierra Nevada yellow-legged frog	G1 S1	CDFG: SC	Fed: Candidate Cal:unknown	512 S:7	1	0	0	0	0	6	6	1	7	0	0
Rhamnus alnifolia alder buckthorn	G5 S2.2	CNPS: 2.2	Fed: None Cal:None	16 S:4	0	0	0	0	0	4	3	1	4	0	0
Rhyacophila spinata spiny rhyacophilan caddisfly	G1G2 S1S2	CDFG:	Fed: None Cal:None	4 S:1	0	0	0	0	0	1	1	0	1	0	0
Riparia riparia bank swallow	G5 S2S3	CDFG:	Fed: None Cal:Threatened	258 S:1	0	0	0	0	0	1	0	1	1	0	0
Rorippa subumbellata Tahoe yellow cress	G1 S1	CNPS: 1B.1	Fed: Candidate Cal:Endangered	29 S:9	0	0	1	0	7	1	2	7	2	7	0
Sagittaria sanfordii Sanford's arrowhead	G3 S3	CNPS: 1B.2	Fed: None Cal:None	88 S:1	0	1	0	0	0	0	0	1	1	0	0

Name (Scientific/Common)	CNDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
Scutellaria galericulata marsh skullcap	G5 S2	CNPS: 2.2	Fed: None Cal None	31 S:1	0	0	0	0	0	1	1	0	1	0	0
Spea hammondii western spadefoot	G3 S3	CDFG: SC	Fed: None Cal None	414 S:5	0	1	0	2	0	2	2	3	5	0	0
Sphaeralcea munroana Munro's desert mallow	G4 S1.2	CNPS: 2.2	Fed: None Cal None	1	0	0	0	0	0	1	1	0	1	0	0
Stuckenia filiformis slender-leaved pondweed	G5 S1S2	CNPS: 2.2	Fed: None Cal None	21 S:1	0	0	0	0	0	1	1	0	1	0	0
Viburnum ellipticum oval-leaved viburnum	G5 S2.3	CNPS: 2.3	Fed: None Cal None	29 S:2	0	2	0	0	0	0	0	2	2	0	0
Viola tomentosa felt-leaved violet	G3 S3.2	CNPS: 4.2	Fed: None Cal None	54 S:13	5	3	0	1	0	4	5	8	13	0	0
Vulpes vulpes necator Sierra Nevada red fox	G5T3 S1	CDFG:	Fed: None Cal Threatened	179 S:8	0	0	0	0	0	8	8	0	8	0	0

CNPS Inventory of Rare and Endangered Plants

Status: Plant Press Manager window with 68 items - Fri, Jul. 27, 2012 13:30 c

Reformat list as: Standard List - with Plant Press controls

ECOLOGICAL REPORT

scientific	family	life form	blooming	communities	elevation	CNPS
Allium jepsonii	Alliaceae	perennial bulbiferous herb	Apr-Aug	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/Serpentinite or volcanic	300 - 1320 meters	List 1B.2
Allium sanbornii var. congdonii	Alliaceae	perennial bulbiferous herb	Apr-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld)/serpentinite or volcanic	300 - 990 meters	List 4.3
Allium sanbornii var. sanbornii	Alliaceae	perennial bulbiferous herb	May-Sep	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/usually serpentinite, gravelly	260 - 1510 meters	List 4.2
Androsace occidentalis	Primulaceae	annual herb	Aug-Sep	•Upper montane coniferous forest (UCFrs)(usually mesic)	1675 - 1700 meters	List 2.3
Arabis rigidissima var. demota	Brassicaceae	perennial herb	Aug	•Broadleafed upland forest (BUFrs) •Upper montane coniferous forest (UCFrs)/rocky	2255 - 2560 meters	List 1B.2
Arctostaphylos mewukka ssp. truei	Ericaceae	perennial evergreen shrub	Feb-Jul	•Chaparral (Chprl) •Lower montane coniferous forest (LCFrs)/sometimes roadside	425 - 1390 meters	List 4.2
Astragalus pauperculus	Fabaceae	annual herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/vernally mesic, volcanic	60 - 1215 meters	List 4.3
Astragalus whitneyi var. lenophyllus	Fabaceae	perennial herb	Jul-Aug	•Alpine boulder and rock field (AlpBR) •Subalpine coniferous forest (SCFrs)(rocky)	2135 - 3050 meters	List 4.3
Balsamorhiza macrolepis	Asteraceae	perennial herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/sometimes serpentinite	90 - 1555 meters	List 1B.2
Botrychium crenulatum	Ophioglossaceae	perennial rhizomatous herb	Jun-Sep	•Bogs and fens (BgFns) •Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws) •Marshes and swamps (MshSw)(freshwater) •Upper montane coniferous forest (UCFrs)	1268 - 3280 meters	List 2.2
				•Bogs and fens (BgFns)		

Botrychium minganense	Ophioglossaceae	perennial rhizomatous herb	Jul-Sep	•Lower montane coniferous forest (LCFrs) •Upper montane coniferous forest (UCFrs)/Mesic	1455 - 2105 meters	List 2.2
Cardamine pachystigma var. dissectifolia	Brassicaceae	perennial rhizomatous herb	Feb-May	•Chaparral (Chprl) •Lower montane coniferous forest (LCFrs)/usually serpentinite, rocky	255 - 2100 meters	List 1B.2
Carex davyi	Cyperaceae	perennial herb	May-Aug	•Subalpine coniferous forest (SCFrs) •Upper montane coniferous forest (UCFrs)	1500 - 3200 meters	List 1B.3
Carex lasiocarpa	Cyperaceae	perennial rhizomatous herb	Jun-Jul	•Bogs and fens (BgFns) •Marshes and swamps (MshSw)(freshwater, lake margins)	1800 - 2100 meters	List 2.3
Carex praticola	Cyperaceae	perennial herb	May-Jul	•Meadows and seeps (Medws)(mesic)	0 - 3200 meters	List 2.2
Carex sheldonii	Cyperaceae	perennial rhizomatous herb	May-Aug	•Lower montane coniferous forest (LCFrs)(mesic) •Marshes and swamps (MshSw)(freshwater) •Riparian scrub (RpScr)	1200 - 2012 meters	List 2.2
Ceanothus fresnensis	Rhamnaceae	perennial evergreen shrub	May-Jul	•Cismontane woodland (CmWld)(openings) •Lower montane coniferous forest (LCFrs)	900 - 2103 meters	List 4.3
Chlorogalum grandiflorum	Agavaceae	perennial bulbiferous herb	May-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/serpentinite, gabbroic and other soils	245 - 1240 meters	List 1B.2
Chloropyron molle ssp. hispidum	Orobanchaceae	annual herb hemiparasitic	Jun-Sep	•Meadows and seeps (Medws) •Playas (Plyas) •Valley and foothill grassland (VFGrs)/alkaline	1 - 155 meters	List 1B.1
Clarkia biloba ssp. brandegeeae	Onagraceae	annual herb	May-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/often roadcuts	75 - 915 meters	List 1B.2
Claytonia parviflora ssp. grandiflora	Montiaceae	annual herb	Feb-Apr(May), Months in parentheses are uncommon.	•Cismontane woodland (CmWld)/rocky	250 - 1200 meters	List 4.2
Downingia pusilla	Campanulaceae	annual herb	Mar-May	•Valley and foothill grassland (VFGrs)(mesic) •Vernal pools (VnPls)	1 - 445 meters	List 2.2
Epilobium oreganum	Onagraceae	perennial herb	Jun-Sep	•Bogs and fens (BgFns) •Lower montane coniferous forest (LCFrs) •Upper montane coniferous forest (UCFrs)/mesic	500 - 2240 meters	List 1B.2
Erigeron eatonii var. nevadincola	Asteraceae	perennial herb	May-Jul	•Great Basin scrub (GBScr) •Lower montane coniferous forest (LCFrs) •Pinyon and juniper woodland (PJWld)/rocky	1400 - 2900 meters	List 2.3
Erigeron miser	Asteraceae	perennial	Jun-Oct	•Upper montane coniferous	1840 - 2620	List

		herb		forest (UCFrs)(rocky)	meters	1B.3
Eriogonum tripodum	Polygonaceae	perennial deciduous shrub	May-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld)/often serpentinite	200 - 1600 meters	List 4.2
Eriogonum umbellatum var. torreyanum	Polygonaceae	perennial herb	Jul-Sep	•Meadows and seeps (Medws) •Upper montane coniferous forest (UCFrs)/volcanic, rocky	1855 - 2620 meters	List 1B.2
Fritillaria agrestis	Liliaceae	perennial bulbiferous herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Pinyon and juniper woodland (PJWld) •Valley and foothill grassland (VFGrs)/Clay, sometimes serpentinite	10 - 1555 meters	List 4.2
Fritillaria eastwoodiae	Liliaceae	perennial bulbiferous herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)(openings)/sometimes serpentinite	50 - 1500 meters	List 3.2
Glyceria grandis	Poaceae	perennial rhizomatous herb	Jun-Aug	•Bogs and fens (BgFns) •Meadows and seeps (Medws) •Marshes and swamps (MshSw)(streambanks and lake margins)	15 - 1980 meters	List 2.3
Gratiola heterosepala	Plantaginaceae	annual herb	Apr-Aug	•Marshes and swamps (MshSw)(lake margins) •Vernal pools (VnPls)/clay	10 - 2375 meters	List 1B.2
Hackelia amethystina	Boraginaceae	perennial herb	Jun-Jul	•Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws) •Upper montane coniferous forest (UCFrs)/openings, disturbed areas	1500 - 2130 meters	List 4.3
Ivesia sericoleuca	Rosaceae	perennial herb	May-Oct	•Great Basin scrub (GBScr) •Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws) •Vernal pools (VnPls)/vernally mesic, usually volcanic	1310 - 2200 meters	List 1B.2
Juncus leiospermus var. ahartii	Juncaceae	annual herb	Mar-May	•Valley and foothill grassland (VFGrs)(mesic)	30 - 229 meters	List 1B.2
Juncus leiospermus var. leiospermus	Juncaceae	annual herb	Mar-May	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Meadows and seeps (Medws) •Valley and foothill grassland (VFGrs) •Vernal pools (VnPls)/vernally mesic	35 - 1020 meters	List 1B.1
				•Chaparral (Chprl) •Great Basin scrub (GBScr)		

Juncus luciensis	Juncaceae	annual herb	Apr-Jul	•Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws) •Vernal pools (VnPls)	300 - 2040 meters	List 1B.2
Lathyrus sulphureus var. argillaceus	Fabaceae	perennial herb	Apr-May	•Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs) •Upper montane coniferous forest (UCFrs)	150 - 305 meters	List 3
Legenere limosa	Campanulaceae	annual herb	Apr-Jun	•Vernal pools (VnPls)	1 - 880 meters	List 1B.1
Lewisia longipetala	Montiaceae	perennial herb	Jul-Aug(Sep), Months in parentheses are uncommon.	•Alpine boulder and rock field (AlpBR) •Subalpine coniferous forest (SCFrs)(mesic, rocky)/Granitic	2500 - 2925 meters	List 1B.3
Lewisia serrata	Montiaceae	perennial herb	May-Jun	•Broadleafed upland forest (BUFrs) •Lower montane coniferous forest (LCFrs) •Riparian forest (RpFrs)/mesic, rocky slopes	900 - 1435 meters	List 1B.1
Lilium humboldtii ssp. humboldtii	Liliaceae	perennial bulbiferous herb	May-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/openings	90 - 1280 meters	List 4.2
Lycopus uniflorus	Lamiaceae	perennial herb	Jul-Sep	•Bogs and fens (BgFns) •Marshes and swamps (MshSw)	5 - 2000 meters	List 4.3
Meesia triquetra	Meesiaceae	moss	•Bogs and fens (BgFns) •Meadows and seeps (Medws) •Subalpine coniferous forest (SCFrs) •Upper montane coniferous forest (UCFrs)(mesic)/soil	1300 - 2953 meters	List 4.2	
Microseris sylvatica	Asteraceae	perennial herb	Mar-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Great Basin scrub (GBScr) •Pinyon and juniper woodland (PJWld) •Valley and foothill grassland (VFGrs)(serpentinite)	45 - 1500 meters	List 4.2
Mielichhoferia elongata	Mniaceae	moss	•Cismontane woodland (CmWld)(metamorphic, rock, usually vernally mesic)	500 - 1300 meters	List 2.2	
Monardella candicans	Lamiaceae	annual herb	Apr-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)/sandy or gravelly	150 - 800 meters	List 4.3
Muhlenbergia jonesii	Poaceae	perennial herb	Jun-Aug	•Lower montane coniferous forest (LCFrs) •Upper montane coniferous	1130 - 2130 meters	List 4.3

				forest (UCFrs)		
Navarretia eriocephala	Polemoniaceae	annual herb	May-Jun	•Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/vernally mesic	105 - 400 meters	List 4.3
Navarretia myersii ssp. myersii	Polemoniaceae	annual herb	Apr-May	•Vernal pools (VnPls)/often acidic	20 - 330 meters	List 1B.1
Navarretia nigelliformis ssp. nigelliformis	Polemoniaceae	annual herb	Apr-Jun	•Valley and foothill grassland (VFGrs)vernally mesic •Vernal pools (VnPls)sometimes/clay, sometimes serpentinite	100 - 1000 meters	List 4.2
Navarretia prolifera ssp. lutea	Polemoniaceae	annual herb	May-Jul	•Chaparral (Chprl) •Cismontane woodland (CmWld)	853 - 1402 meters	List 4.3
Packera layneae	Asteraceae	perennial herb	Apr-Aug	•Chaparral (Chprl) •Cismontane woodland (CmWld)/serpentinite or gabbroic, rocky	200 - 1000 meters	List 1B.2
Phacelia stebbinsii	Boraginaceae	annual herb	May-Jul	•Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws)	610 - 2010 meters	List 1B.2
Piperia colemanii	Orchidaceae	perennial herb	Jun-Aug	•Chaparral (Chprl) •Lower montane coniferous forest (LCFrs)/often sandy	1200 - 2300 meters	List 4.3
Poa sierrae	Poaceae	perennial rhizomatous herb	Apr-Jun	•Lower montane coniferous forest (LCFrs)	365 - 1500 meters	List 1B.3
Podistera nevadensis	Apiaceae	perennial herb	Jul-Sep	•Alpine boulder and rock field (AlpBR)	3000 - 4000 meters	List 4.3
Pseudostellaria sierrae	Caryophyllaceae	perennial rhizomatous herb	May-Aug	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs) •Upper montane coniferous forest (UCFrs)	1225 - 2194 meters	List 4.2
Rhamnus alnifolia	Rhamnaceae	perennial deciduous shrub	May-Jul	•Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws) •Riparian scrub (RpScr) •Upper montane coniferous forest (UCFrs)	1370 - 2130 meters	List 2.2
Rorippa subumbellata	Brassicaceae	perennial rhizomatous herb	May-Sep	•Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws)/decomposed granitic beaches	1895 - 1900 meters	List 1B.1
Sagittaria sanfordii	Alismataceae	perennial rhizomatous herb emergent	May-Oct	•Marshes and swamps (MshSw)(assorted shallow freshwater)	0 - 650 meters	List 1B.2
Scutellaria galericulata	Lamiaceae	perennial rhizomatous	Jun-Sep	•Lower montane coniferous forest (LCFrs) •Meadows and seeps (Medws)(mesic)	0 - 2100	List 2.2

		herb		•Marshes and swamps (MshSw)	meters	
Silene occidentalis ssp. occidentalis	Caryophyllaceae	perennial herb	Jun-Aug	•Chaparral (Chprl) •Lower montane coniferous forest (LCFrs) •Upper montane coniferous forest (UCFrs)/dry, open sites	1230 - 2090 meters	List 4.3
Sparganium natans	Typhaceae	perennial rhizomatous herb emergent	Jun-Sep	•Bogs and fens (BgFns) •Marshes and swamps (MshSw)(lake margins)	1645 - 2500 meters	List 4.3
Sphaeralcea munroana	Malvaceae	perennial herb	May-Jun	•Great Basin scrub (GBScr)	2000 - 2000 meters	List 2.2
Stuckenia filiformis	Potamogetonaceae	perennial rhizomatous herb aquatic	May-Jul	•Marshes and swamps (MshSw)(assorted shallow freshwater)	300 - 2150 meters	List 2.2
Veronica cusickii	Plantaginaceae	perennial herb	Jul-Aug	•Alpine boulder and rock field (AlpBR) •Meadows and seeps (Medws) •Subalpine coniferous forest (SCFrs) •Upper montane coniferous forest (UCFrs)	2135 - 3000 meters	List 4.3
Viburnum ellipticum	Adoxaceae	perennial deciduous shrub	May-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFrs)	215 - 1400 meters	List 2.3
Viola tomentosa	Violaceae	perennial herb	May-Oct	•Lower montane coniferous forest (LCFrs) •Subalpine coniferous forest (SCFrs) •Upper montane coniferous forest (UCFrs)/gravelly	1435 - 2000 meters	List 4.2

U.S. Fish & Wildlife Service

Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 120727111829

Database Last Updated: September 18, 2011

No quad species lists requested.

County Lists

Placer County

Listed Species

Invertebrates

- Branchinecta conservatio
  - Conservancy fairy shrimp (E)

- Branchinecta lynchi
  - Critical habitat, vernal pool fairy shrimp (X)
  - vernal pool fairy shrimp (T)

- Desmocerus californicus dimorphus
  - Critical habitat, valley elderberry longhorn beetle (X)
  - valley elderberry longhorn beetle (T)

- Lepidurus packardi
  - Critical habitat, vernal pool tadpole shrimp (X)

- vernal pool tadpole shrimp (E)

Fish

- Hypomesus transpacificus
  - delta smelt (T)

- Oncorhynchus (=Salmo) clarki henshawi
  - Lahontan cutthroat trout (T)

- Oncorhynchus mykiss
  - Central Valley steelhead (T) (NMFS)
  - Critical habitat, Central Valley steelhead (X) (NMFS)

- Oncorhynchus tshawytscha
  - Central Valley spring-run chinook salmon (T) (NMFS)
  - winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- Ambystoma californiense
  - California tiger salamander, central population (T)

- Rana draytonii
  - California red-legged frog (T)
  - Critical habitat, California red-legged frog (X)

Reptiles

- Thamnophis gigas
  - giant garter snake (T)

Plants

- Calystegia stebbinsii
  - Stebbins's morning-glory (E)

- Ceanothus roderickii
  - Pine Hill ceanothus (E)

- Galium californicum ssp. sierrae
  - El Dorado bedstraw (E)

- Orcuttia viscida
  - Critical habitat, Sacramento Orcutt grass (X)
  - Sacramento Orcutt grass (E)

- Senecio layneae
  - Layne's butterweed (=ragwort) (T)

Candidate Species

Amphibians

- Rana muscosa
  - mountain yellow-legged frog (C)

Birds

- Coccyzus americanus occidentalis
  - Western yellow-billed cuckoo (C)

Mammals

- Martes pennanti

- fisher (C)

Plants

- Rorippa subumbellata
  - Tahoe yellow-cress (C)

Key:

- (E) Endangered - Listed as being in danger of extinction.
- (T) Threatened - Listed as likely to become endangered within the foreseeable future.
- (P) Proposed - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.
- Critical Habitat - Area essential to the conservation of a species.
- (PX) Proposed Critical Habitat - The species is already listed. Critical habitat is being proposed for it.
- (C) Candidate - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) Critical Habitat designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, or may be affected by projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online Inventory of Rare and Endangered Plants.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list.
See our Protocol and Recovery Permits pages.

For plant surveys, we recommend using the Guidelines for Conducting and Reporting Botanical Inventories. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or

shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal consultation with the Service.
- During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.
- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.
- Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our Map Room page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However,

various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. More info

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be October 25, 2012.

Flow Related Habitat Studies In Auburn Ravine (DRAFT)

Appendix C

Draft Work Plan for Flow Related Habitat Studies in Auburn Ravine

For the Mid-Western Placer Regional Sewer Project

Prepared for:
The California Department of Fish and Game and NOAA's National Marine Fisheries Service on behalf of the City of Lincoln



August 23, 2012

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1.0 Background

1.1 PROPOSED PROJECT

The City of Lincoln along with Placer County and the City of Auburn are proposing to regionalize wastewater treatment in western Placer County, CA. The City of Lincoln is the lead agency and project proponent for the Mid-Western Placer Regional Sewer Project (proposed project). The proposed project would entail the elimination of current effluent discharges into Auburn Ravine from the Auburn Wastewater Treatment Plant (WWTP), and into Rock Creek from the Placer County SMD1 WWTP.

This proposed work plan is intended to address the proposed project as it relates to Auburn Ravine. An overview map illustrating the proposed project area is presented in Figure 1 below. A separate work plan has been prepared for the proposed elimination of effluent discharges to Rock Creek from the SMD1 WWTP.

1.2 PHYSICAL SETTING

The Auburn WWTP is located in Placer County near the City of Auburn. The basin area at the WWTP is approximately 10.1 square miles (StreamStats 2012). The maximum elevation in the basin is 1,687 feet and elevation at the WWTP is approximately 823 feet. Mean annual precipitation is 35.5 inches. Forest cover comprises 34.3% of the total basin area and 15.7% of the land cover is impervious surface (StreamStats 2012).

1.3 REGULATORY SETTING

Auburn Ravine has known occurrences of steelhead trout (*Oncorhynchus mykiss*), a species listed under the Endangered Species Act (ESA) as threatened, and fall-run Chinook salmon (*Oncorhynchus tshawytscha*) a Federal Species of Concern. In addition, Auburn Ravine contains designated Critical Habitat for steelhead and Essential Fish Habitat for Chinook. As a result, it is understood that the proposed project will require federal consultations under Section 7 of the ESA with National Marine Fisheries Service (NMFS) and consultations with California Department of Fish and Game (CDFG). Preliminary conversations with NMFS staff (Gary Sprague) have indicated that consultation will likely be informal as the project is currently proposed. However, additional study is needed to understand the potential effects (if any) of eliminating the Auburn WWTP effluent discharge on federally protected species and critical habitat in Auburn Ravine.

Other special-status species with potential to occur in Auburn Ravine include the foothill yellow-legged frog, a California Species of Concern, and the northwestern pond turtle, a California Species of Concern. These species are protected by CDFG and both have the potential to occur

Figure 1

within the project area since suitable habitat for these species is known to occur in Auburn Ravine. The California tiger salamander is federally listed as a threatened species under the ESA and it is listed as a threatened species under the California ESA. The CA red-legged frog is listed as a threatened species under the ESA and is protected as a California Species of Concern. However, neither of these species is likely to occur in and adjacent to the project area streams since Auburn Ravine does not provide suitable breeding or wintering habitat for either of these species.

1.4 PRIOR STUDIES

As part of the licensing activities for the Yuba-Bear (FERC Project No. 2266-096) and Drum-Spaulding (FERC Project No. 2310-173) hydroelectric projects, studies were conducted characterizing fish distribution and abundance (CDFG 2008, PG&E 2010), and aquatic habitat types and flow related habitat in Auburn Ravine (PG&E 2011). Relevant elements of these studies, as they relate to the proposed project area, are summarized in the following sections.

1.4.1 Hydrology

Stream flow patterns in Auburn ravine are heavily influenced by the management of water for hydroelectric generation and irrigation. These patterns may be categorized temporally according to the demand for irrigation water and electricity and spatially according to the location and magnitude of releases and/or diversions.

1.4.1.1 Temporal Patterns

The temporal nature of stream flow patterns in Auburn Ravine can be categorized according to three periods of the year (PG&E 2012):

- Mid-April to mid-October – the high flow period where releases are provided to Auburn Ravine for irrigation. In the absence of water infrastructure flows would ordinarily be very low due to seasonal precipitation patterns. This period will be referred to as the “irrigation season” in the remainder of the text.

- Mid-October to mid-November – PG&E ceases releases to Auburn Ravine in this period in order to maintain and repair their canal system. This period will be referred to as the “outage season” in the remainder of the text.

- Mid-November to mid-April – Flows in this period are dominated by precipitation events and by accretion flows during non-precipitation periods. This period will be referred to as the “winter season” in the remainder of the text.

Figure 2 shows seasonal stream flow patterns at the City of Auburn stream gage AR-1 located at RM 27.29, upstream of the Auburn WWTP discharge point. Flows during the irrigation season typically range between 45 and 140 cfs. During the outage and winter seasons, flows may approach 4.0 cfs. Based on the period of record, late October, November, January, and February are the months where flows are typically lowest. Early April may also be a period where low flows are observed. However, median flows during the spring months are typically well above 10 cfs. It should be noted that the seasonal patterns depicted in Figure 2 do not include effluent from the Auburn WWTP.

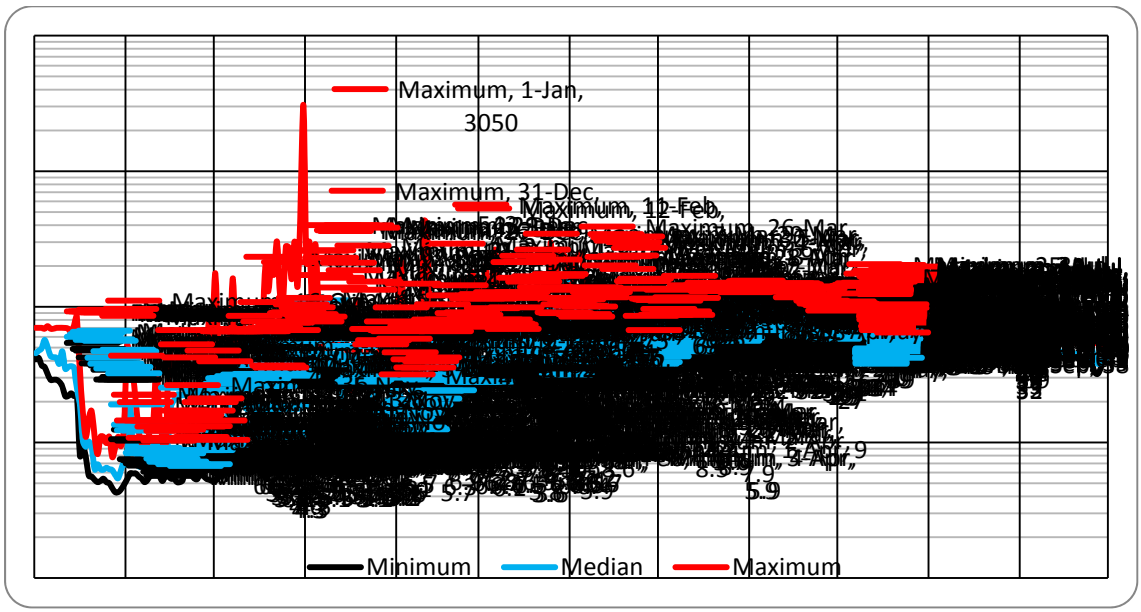


Figure 2. Streamflow patterns at the City of Auburn stream gage AR-1 (RM 27.29). Period of record October 1, 2005 to August 2, 2009. Note that the data are illustrated using a logarithmic scale in order to make outage and winter season flows readily observable.

1.4.1.2 Spatial Patterns

PG&E (2012) studied the distribution of diversions and release points in Auburn Ravine between RM 27.64 and RM 14.4 (NID's HWY 65 gage). They document eight release points and at least 30 water diversions. A summary of diversions and release points as they relate to natural and project area features is presented in Table 1 and a schematic illustrating the layout of these features is presented in Figure 3.

Water released from the PG&E Wise Powerhouses is conveyed to Auburn Ravine by the South Canal (RM 27.46). Releases are seasonally variable as described above and can occur throughout the year excluding the outage season. PCWA can release water at RM 27.5 or 26.4

as needed. The release point at RM 26.4 is primarily operational during the irrigation season and conveys water from the American River basin. The Auburn WWTP is located at RM 26.95

Figure 3

and average daily effluent discharges are approximately 1.5 cfs during the outage and winter seasons. It should be noted that the potable water which is the source for the wastewater generated within the City of Auburn service area is a combination of NID and PCWA treated surface water. NID water supplying the North Auburn potable uses within their service area is derived from the Yuba River and the Bear River. PCWA water in the Auburn area is derived from the Yuba River, the Bear River and the American River.

NID has diversions at RM 23.8 (Auburn Ravine 1) and RM 17.5 (Hemphill Diversion). The Auburn Ravine 1 diversion operates year round. Median diversions during the irrigation season from 1998 to 2011 ranged from 42 to 58 cfs (PG&E 2012). During the outage season median diversions ranged from 4.5 to 10.1 cfs and 5.1 to 13.6 cfs in the winter season for the same period of record. The Hemphill Diversion also operates year round. In the period between 1998 and 2010, median diversions during the winter season ranged from 0 to 22 cfs. During the outage season, median diversions ranged between 2.0 and 10 cfs. During the irrigation season, median flows at the Hempill diversion ranged from 6.4 to 18.3 cfs although the maximum diversion for the period of record was 23.6 cfs.

As described previously, monthly average flows in Auburn Ravine at the AR-1 stream gage (water years 2005 – 2009) indicate that minimum flows during the outage and winter seasons were always greater than 4.3 cfs. The complex pattern of diversions and releases does appear to influence stream flow patterns far down into the basin. However, analysis of the 2009 water year at the Auburn Ravine Gaging station (RM 14.3) suggests that flows are higher throughout the year under the current water management scenario than under unimpaired conditions (PG&E 2011).

1.4.2 Fish Distribution and Abundance

The California Department of Fish and Game (CDFG 2008) collected fifteen fish species in Auburn Ravine in 2004 using a backpack electrofisher. Study locations ranged from Catlett Road in the lower basin to Wise Road upstream of the Wise Powerhouse. Native fish species included steelhead/rainbow trout (*Oncorhynchus mykiss*), Sacramento pikeminnow (*Ptychocheilus grandis*), Sacramento sucker (*Catastomus occidentalis*), Hitch (*Lavinia exilicauda*), Speckled dace (*Rhinichthys osculus*), Pacific lamprey (*Lampetra tridentada*), and unidentified sculpins (*Cottus spp.*). In 2005 fourteen species were collected including one adipose clipped Chinook salmon (*Oncorhynchus tshawytscha*) smolt with a coded wire tag at RM 0.5. In both years *O. mykiss* dominated the total catch ranging between 38% and 47% of individuals captured. In 2004, the sites closest to the Auburn WWTP (AUB-05, AUB-06, and AUB-07) yielded a combined total of 287 *O. mykiss* and 189 *O. mykiss* were captured in 2005.

Table 1. Water management infrastructure, natural features, and landmarks in Auburn Ravine by river mile.

River Mile	Feature Name	Operational Function
27.64	YB 259 – South Canal	Release
27.5	PCWA release	Release
27.46	YB 132 - South Canal	Release
27.31	North Ravine	Release
27.29	Private diversion	Diversion
27.29	AR-1 stream gage	
27.27	Natural barrier	
26.95	Auburn WWTP	Effluent
26.53	Natural barrier	
26.5	Private diversion	Diversion
26.4	PCWA Auburn Tunnel	
26.4	Steelhead critical habitat	
26.1	PG&E Delivery to PCWA	Release
26.1	Lozano Rd.	
23.74	Auburn Ravine 1	Diversion
23.2	Georges Ravine	Release
22.9	Natural barrier	
22.4	Goldhill Rd.	
22.05	Dutch Ravine	Release
20.3	Columbia Ravine	Release
19.9	Fowler Rd.	
17.5	Hemphill Diversion	Diversion
14.4	HWY 65	
14.3	Auburn Ravine Gaging Station	
11.3	Unknown	Diversion
10.5	Unknown	Diversion
10.2	City of Lincoln WWTP	Effluent
9.4	Aitken Ranch	Diversion
9	Orchard Creek/Ingram Slough	Release
5.5	Lincoln Ranch Duck Club	Diversion
2.4	Unknown	Diversion
1.4	Davis Dam/Pleasant Grove	Diversion
0	Coppin Dam	Diversion

In 2008, PG&E (2010) conducted electrofishing surveys in Auburn Ravine near the City of Auburn WWTP (RM 27.4) and near the Lozanos Rd stream crossing (RM 26.5). The combined total for both locations was 43 fish. Riffle sculpins (*Cottus gulosus*) were most abundant (n = 27) with *O. mykiss* (n = 15) and speckled dace (n = 1) also being present.

The probable upstream limit for steelhead distribution is the Auburn Ravine 1 diversion dam at RM 23.8 and spawning is believed to occur primarily between RM 13.4 and 22.6 (PG&E 2011). Fall run Chinook salmon have been documented in Auburn Ravine up to RM 22.9 where a natural waterfall apparently restricts further migration (Bailey 2003, PG&E 2011).

1.4.3 Physical Habitat

Aquatic habitat was mapped from upstream of the East Side Canal (RM 1.9) to downstream of the Auburn WWTP (RM 26.34). Based on the valley type and channel form, three distinct reaches were identified (Figure 4). Reach SR3 was a relatively high-gradient stream with an overall slope of 2.3% while reaches SR2 and SR1 were comparatively lower gradient at 0.6 and 0.2% respectively. High gradient macro habitat types such as cascades, chutes, step runs/step pools, and pocket waters were only observed in reach SR3. Habitat types characteristic of meandering rivers (e.g., lateral pools) were observed in higher frequencies in SR2 and SR1.

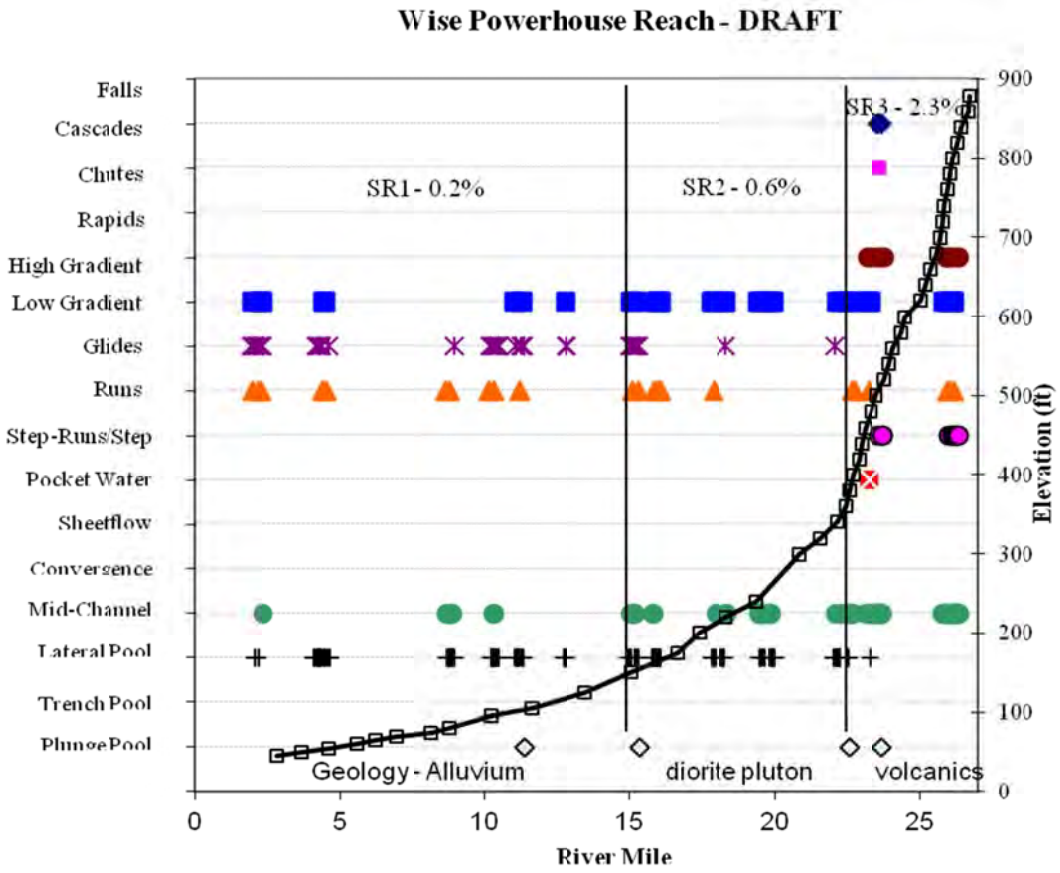


Figure 4. Project area reach characteristics and macro habitat frequencies by river mile. Data originally presented in PG&E (2011).

Spawnable gravels were primarily concentrated in reach SR1 although fairly large gravel patches were also observed on the downstream end of reach SR2 (Figure 5). As described above the upstream migratory limit for steelhead trout is thought to be RM 23.8 and for Chinook salmon is RM 22.9.

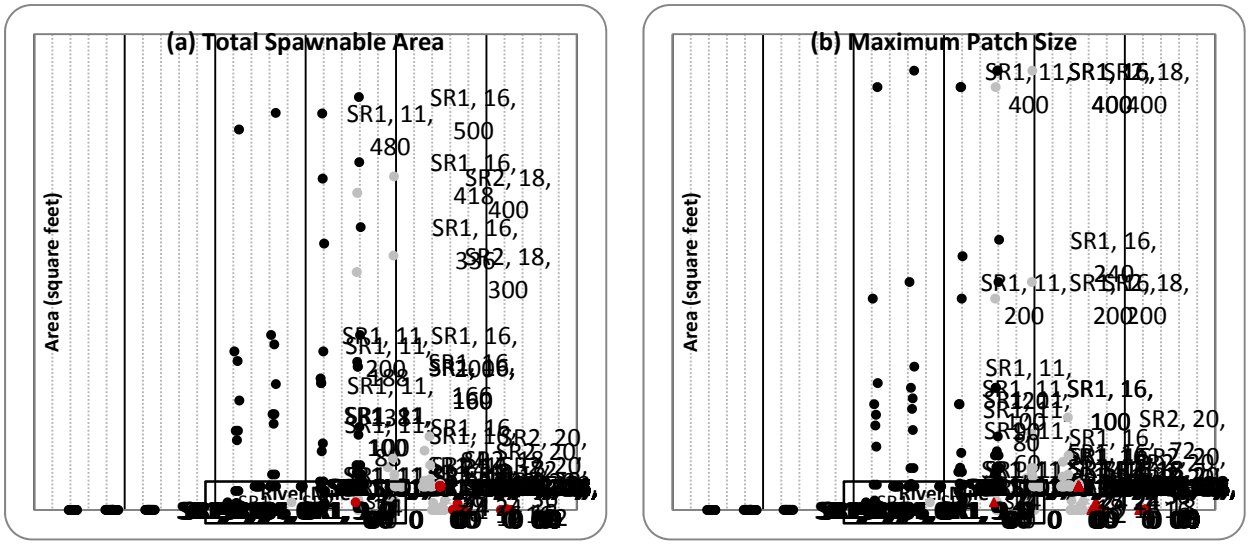


Figure 5. Total spawnable area (a) and maximum spawning patch size (b) for native salmonids by river mile. Data adapted from PG&E (2011).

1.4.4 Flow Related Habitat

Flow related habitat in Auburn Ravine was studied using the Physical Habitat Simulation System (PHABSIM). The study area included transects upstream of the Auburn wastewater treatment plant outfall (n = 4) and downstream of the outfall (n = 9) (Table 2). These models simulated habitat conditions for discharges ranging between 1.0 and 158 cfs. Weighted useable area (WUA) for adult rainbow trout life stage peaked at approximately 10 cfs and for the spawning life stage peaked at 25 cfs (PG&E 2011). The spawning curve, however, was relatively flat between 10 and 30 cfs. Eighty percent of the maximum WUA for these lifestages is 4 and 8 cfs respectively (CDFG 2012).

Habitat duration analyses were conducted to examine the influence of “regulated” versus “unregulated” hydrographs. In the traditionally dry months of the year (i.e., September and October) Habitat Index Units were higher in the regulated scenario than the unregulated scenario suggesting greater habitat availability under the current water management scenario. For the spawning life stage Habitat Index Units were between 282 and 526% higher in the regulated scenario than in the unregulated scenario.

Table 2. PHABSIM transect summary for Auburn Ravine Study Site. Transects 1 – 9 are located downstream of the Auburn WWTP and transect 10 – 13 are located upstream.

Transect Number	Habitat Type[1]	Low Calibration Flow (cfs)	High Calibration Flow (cfs)	Low Simulation Flow (cfs)	High Simulation Flow (cfs)	Stage-Discharge Model[2]	Location Relative to Outfall
1	Run	7.52	63.37	1.00	158.00	CC	DS
2	Pool	7.52	63.37	1.00	158.00	CC	DS
3	HGR	7.52	63.37	1.00	158.00	CC	DS
4	POW	7.52	63.37	1.00	158.00	CC	DS
5	LGR	7.52	63.37	1.00	158.00	CC	DS
6	Pool	7.52	63.37	1.00	158.00	L/L	DS
7	Pool	7.52	63.37	1.00	158.00	L/L	DS
8	POW	7.52	63.37	1.00	158.00	CC	DS
9	Run	7.52	63.37	1.00	158.00	CC	DS
10	HGR	2.30	56.09	1.00	158.00	CC	US
11	Pool	2.30	56.09	1.00	158.00	CC	US
12	LGR	2.30	56.09	1.00	158.00	CC	US
13	Pool	2.30	56.09	1.00	158.00	L/L	US

1 – HGR = high gradient riffle, POW = pocket water, LGR = low gradient riffle.

2 – CC = channel conveyance (MANSQ), L/L = log/log regression (IFG4).

2.0 Proposed Studies

The studies proposed below are intended to provide 1) baseline information necessary to complete the CEQA process, 2) sufficient information to determine whether cessation of flow constitutes a take under the Endangered Species Act, and 3) a science-based rationale to establish mitigation flows if needed. It is useful to review several important facts discussed in earlier sections of this document before presentation of the proposed study design:

- The effluent discharge from the Auburn WWTP typically ranges between 1.0 and 9.0 cfs and average daily flows are approximately 1.5 cfs during the outage and winter season.
  .

- During some parts of the year a 2.0 cfs discharge may account for as little as 2% of the total creek discharge at the Auburn gage at RM 27.29. In especially dry periods, however, 2.0 cfs could account for as much as 33% of the total creek discharge.

- CDFG and NMFS have identified the outage and winter seasons as the periods where flow related aquatic habitat is of greatest concern.
- Non-irrigation season flows under the current water management scenario are higher than flows that would be present in the Auburn Ravine in an unimpaired flow scenario.
- There are at least 8 release points and 30 diversions in Auburn Ravine. Auburn Ravine is ungaged from Auburn Ravine 1 (RM 23.74) to the HWY 65 gage at RM 14.4. Thus actual flows in this reach are not known.
- The upstream limit of migration is presently RM 23.8 for steelhead trout and RM 22.9 for Chinook salmon. The Auburn WWTP is located at RM 26.95, 3.15 and 4.05 miles upstream of the respective limits of anadromy.
- Critical habitat for steelhead trout extends upstream to RM 26.4.
- Spawning habitat was most frequently observed between RM 10.0 and 20.0.
- The Auburn Ravine 1 (RM 23.74) and Hemphill Diversions (RM 17.5) are upstream of much of the documented spawning habitat. These diversions continue to operate during the low flow seasons.
- PHABSIM studies have been conducted in reach SR3 (RM 23.15 – RM 27.35) and can be used to evaluate the impact of the proposed action on flow related habitat in this reach.
- Flow related habitat has not been studied in reaches SR1 and SR2 to date. However, CDFG has plans collect field data this fall.

2.1 METHODS

2.1.1 Habitat Reach SR3 (RM 23.5 – 26.4)

The PHABSIM models developed by PG&E in support of their FERC license application appear to adequately represent physical habitat conditions in geomorphic reach SR3. If necessary, these models may be adapted to model flow scenarios for diversions and releases present downstream of the Auburn WWTP. However, no additional analyses are proposed for reach SR3 at present.

2.1.2 Habitat Reach SR2 (RM 17.8 – 22.7)

CDFG and NMFS expressed interest in additional study of flow related habitat in reaches of Auburn Ravine downstream of the reach studied by PG&E (2011). There are several compelling reasons to focus study of flow related habitat on this particular reach:

- It is accessible to both steelhead trout and Chinook salmon under at least some circumstances and both species are thought to spawn in this reach.
- Habitat in the reach was mapped by PG&E (2011) and was recently mapped by CDFG (unpublished data).
- The bounds of this habitat reach closely correspond to important water management infrastructure. NID has diversions at RM 23.8 (Auburn Ravine 1) and RM 17.5 (Hemphill Diversion).
- CDFG is planning to conduct an in-stream flow study throughout Auburn Ravine and will have study sites within this reach.

Flow related habitat in Auburn Ravine will be characterized using PHABSIM. The Project Team will collaborate with CDFG to the extent practical in various phases of the project.

A single study site will be selected in consultation with CDFG. Five transects will be studied. It is assumed that three sets of field measurements can be collected with a single mobilization event. In order to accomplish this, some degree of flow manipulation from the various water purveyors (e.g, PG&E, NID, PCWA) will be necessary.

Field efforts will be designed to capture a sufficient range of discharges to enable the PHABSIM models to reliably simulate low flow conditions present in the channel during the outage and winter seasons. The objective of these models will be to simulate hydraulic and habitat conditions with and without the influence of effluent discharges from the Auburn WWTP.

PHABSIM transects will be established for representative macro-habitat types and will be clustered together where possible. No more than 5 transects will be studied in this effort. Clustering transects can facilitate identification of potential calibration errors in the subsequent hydraulic models and makes collection of field measurements more convenient. Basic input data for the PHABSIM hydraulic and habitat models will be collected using the procedures and data reduction techniques described by the USGS Instream Flow Group. Field personnel will measure discharge and water surface elevation during each event with the intention of collecting 3 stage-discharge pairs. In addition to stage, discharge, and velocity measurements, field personnel will visually characterize substrate and cover for each station on the study transects.

Upon completion of the field data collection phase, the Stantec Biologists will compile data, run the PHABSIM Model and summarize model and flow study results. It is assumed that existing readily available Habitat Suitability Criteria will be used for this analysis and that no field or analytical work will be required. A fisheries assessment report will be developed that quantifies flow versus habitat relationships for Auburn Ravine. The goal is for this field and modeling report to be sufficient to form the basis for the NMFS Biological Assessment, the fisheries section of the CDFG Biological Resource Evaluation, and the Aquatic Biological Resources impact section within the CEQA document (Environmental Impact Report) currently being developed.

2.1.3 Habitat Reach SR1 (RM 1.9 – 16.07)

No studies are proposed for this reach due its distance from the Auburn WWTP and the potential loss of water to evaporation and subsurface flows, the number and complexity of diversions and release points that must be considered, and the apparent similarity of this reach to the lower portion of SR2.

2.1.4 Special Status Species Inventories

Within the SR2 and SR3 habitat reaches, habitat level surveys for other special-status aquatic species, including foothill yellow-legged frog and northwestern pond turtle, will be conducted in association with the surveys outlined in Sections 2.1.1 and 2.1.2. The purpose of the surveys will be to identify suitable habitat for these species, which will include the identification of refugia pools during low flows within Auburn Ravine. Stantec will determine whether suitable refugia for special-status aquatic species exist within the Auburn Ravine stretches under study. The results of the habitat level studies for special-status aquatic species will be integrated into the Aquatic Biological Resources CEQA (Environmental Impact Report) impact assessment for this project currently being developed. The survey areas will also be scanned for individuals of these species and if they are documented they will be noted and their locations mapped using sub-meter Trimble GPS.

3.0 Literature Cited

Bailey, R. 2003. Streams of Western Placer County: Aquatic Habitat and Biological Resources Literature Review. Prepare for the Sierra Business Council. December 2003.

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Flow Related Habitat Studies In Upper Coon Creek Watershed

Appendix D

Draft Work Plan for Flow Related Habitat Studies in Upper Coon Creek Watershed

For the Mid-Western Placer Regional Sewer Project

Prepared for:

The California Department of Fish and Game and NOAA's National Marine Fisheries Service on behalf of the City of Lincoln

Stantec

August 23, 2012

DRAFT

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1.0 Background

1.1 PROPOSED PROJECT

The City of Lincoln along with Placer County and the City of Auburn are proposing to regionalize wastewater treatment in western Placer County, CA. The City of Lincoln is the lead agency and project proponent for the Mid-Western Placer Regional Sewer Project (proposed project). The proposed project would entail the elimination of current effluent discharges into Auburn Ravine from the Auburn Wastewater Treatment Plant (WWTP), and into Rock Creek, from the Placer County SMD1 WWTP. This work plan focuses on the SMD1 proposed elimination of effluent discharges.

The SDM1 WWTP discharges treated effluent to Rock Creek in a location just north of Joeger Road (see Attachment 1). The average daily discharge between July 2005 and April 2012 was approximately 2.5 cfs. Effluent discharged into Rock Creek from the SMD1 WWTP flows downstream approximately 200 feet to the confluence with Dry Creek. Coon Creek is located approximately 2 miles downstream of the SMD1 outfall and begins at the confluence of Dry Creek and Orr Creek. The Camp Far West Diversion is located approximately 0.8 miles downstream of this confluence and is upstream of the limit of anadromy on Coon Creek. Access by anadromous fish to the upper reaches of the Coon Creek watershed, which includes Dry Creek and Rock Creek, is prevented by numerous natural and anthropogenic fish migration barriers approximately 8 miles downstream of the SMD1 WWTP (AECOM 2011).

Since the late 1990s Placer County has purchased water (3.0 – 5.0 cfs) from the Nevada Irrigation District (NID), for dilution of effluent discharged from their SDM1 WWTP to Rock Creek. The dilution water originates in Combie Reservoir from where it is conveyed through the Bear River Siphon to the Combie Ophir conveyance system. The dilution water is released to Rock Creek upstream of the effluent discharge as shown on Attachment 1. The relative location of the WWTP effluent discharge and the dilution water is also shown schematically on Attachment 2. The dilution water comingles with the Rock Creek background flow and treated effluent discharged from the WWTP in an attempt to allow Placer County to comply with Receiving Water Limitations for ammonia. This practice was initiated following failed efforts at achieving adequate nitrification of the wastewater through the SMD1 treatment process train (ref. Waste Discharge Requirements Order No. R5-2005-0074).

Elimination of the effluent discharge would eliminate the need for NID to provide dilution water to mitigate downstream water quality impacts. NID has stated that with the elimination of the effluent, NID dilution water currently delivered to Rock Creek would instead be routed by NID down Orr Creek to the Camp Far West Diversion. Under both scenarios dilution water is diverted out of Coon Creek at the same point, the head of the Camp Far West Canal. It is anticipated that the Auburn Regional Park, located upstream of the SMD1 discharge to Rock

Creek, would continue to request deliveries of approximately 0.5 cfs from NID. With the implementation of the proposed project, effluent from SMD1 would be piped to the City of Lincoln wastewater treatment and reclamation facility where it would be treated and then either discharged to Auburn Ravine or recycled for reclamation purposes for the City of Lincoln water reclamation program.

Seasonal stream flow patterns in the project area streams differ substantially from natural conditions. Flows during the dry summer months are high with 30 and 45 cfs being delivered to the Camp Far West Canal during the irrigation season (Figure 1). The combined effluent and dilution deliveries account for approximately 7.5 cfs during the irrigation season. With the exception of leakage from the dam and from the flashboards located at the head of the Camp Far West canal (Figure 2), this water is conveyed down the canal and removed from Coon Creek. The proposed project will not affect operation of this diversion.

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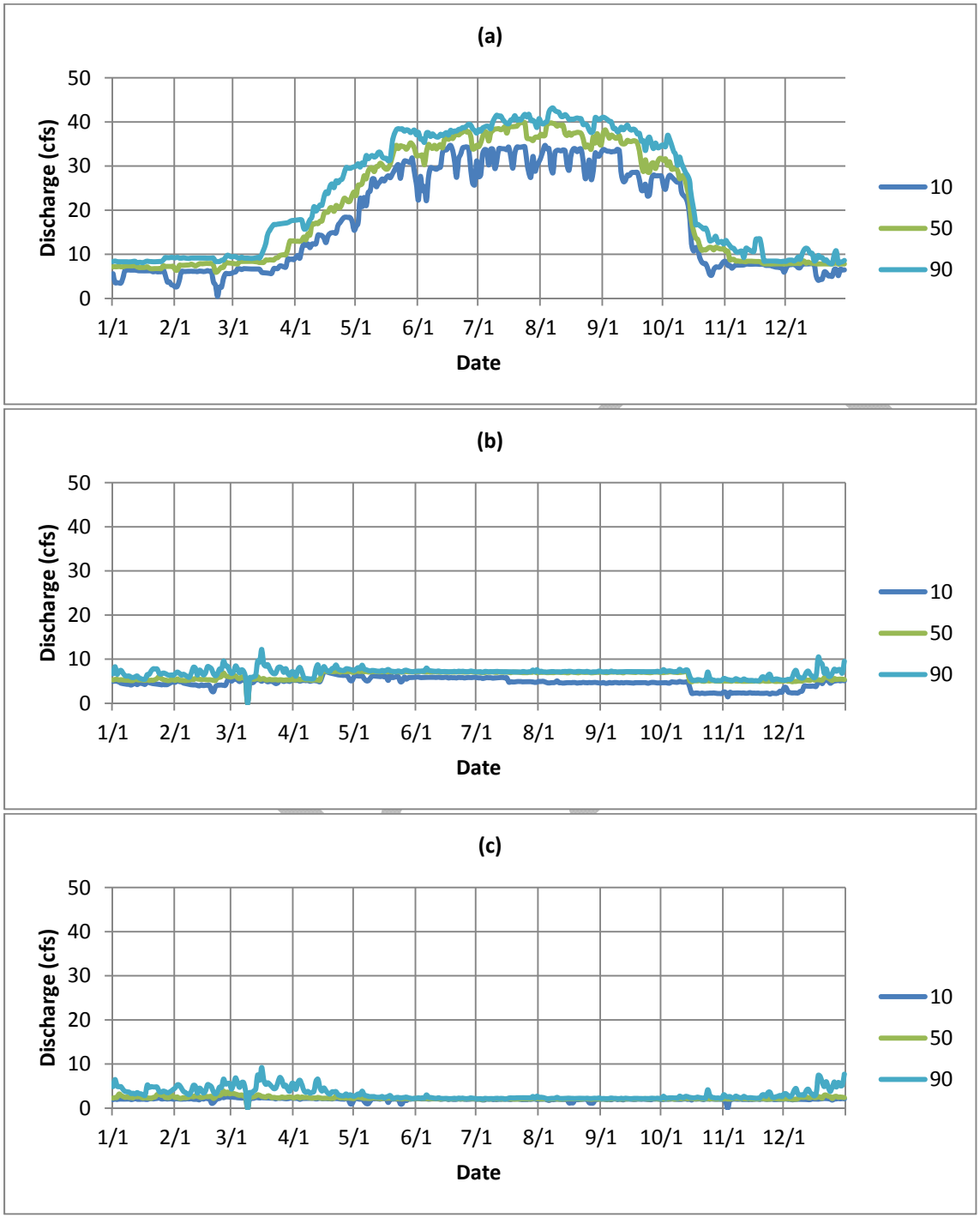


Figure 1. Seasonal flow patterns in the Camp Far West Canal (a), SDM1 effluent plus dilution flow (b), and SDM1 effluent alone (c). Period of record from July 17, 2005 to April 15, 2012. Data represent 10, 50, and 90 percent exceedance flows.



(a)



(b)

Figure 2. Leakage through the flashboards at the Camp Far West Diversion (a) and Coon Creek immediately below the Camp Far West Diversion (b) on June 28th, 2012.

1.2 REGULATORY SETTING

The central valley steelhead trout distinct population segment (DPS) was listed as a federally threatened species under the Endangered Species Act in 1998 (NMFS 2011). This status was reaffirmed in 2006 and again in 2011 although the authors noted continued population declines in the 2011 status review. Critical habitat for this species extends to the cataracts which are downstream of the Camp Far West Diversion. Fall-run chinook have been identified as a California and Federal Species of Concern; therefore, protected by the California Department of Fish and Game (CDFG). Coon Creek is known to provide opportunistic/intermittent spawning, holding, and rearing habitat for fall-run chinook (NMFS 2012) approximately 8 miles downstream of the SMD1 discharge location in Rock Creek. Spring, late fall, and winter runs are not known to use this system, presumably because stream temperatures exceed the thermal tolerances of rearing juveniles in the summer months (AECOM 2011). Hardhead (*Mylopharodon conocephalus*), a native minnow species, could potentially occur in the project area and is presently identified as a Species of Concern by the State of California.

Other special-status species with potential to occur in the project area streams include the foothill yellow-legged frog, a California Species of Concern, and the northwestern pond turtle, a California Species of Concern. These species are protected by CDFG and both have the potential to occur in the project area streams since suitable habitat for these species is known to occur in Dry Creek and Rock Creek (AECOM 2011). The California tiger salamander is federally listed as a threatened species under the Endangered Species Act and it is listed as a threatened species under the California Endangered Species Act. The CA red-legged frog is listed as a threatened species under the Endangered Species Act and is protected as a California Species of Concern. Neither of these species is likely to occur in and adjacent to the project area streams since the Dry Creek and Rock Creek do not provide suitable breeding or wintering habitat for either species (AECOM 2011).

1.3 PRIOR STUDIES

As part of the licensing activities for the Drum-Spaulding (FERC Project No. 2310-173) and Yuba-Bear (FERC Project No. 2266-096) hydroelectric projects, data were collected in some project area streams. Instream flow studies were conducted on Dry Creek and Rock Creek using the Channel/Flow Response method (NID & PG&E 2010). The Rock Creek study sites were located downstream of the Rock Creek Dam reach but upstream of the NID delivery point and the SDM1 WWTP. The calibration flows ranged between 0.93 and 3.67 cfs, falling within an acceptable range to model flow conditions in the project reach. However, more investigation is needed to determine if habitat conditions at the transect locations are representative of locations near the WWTP. The Dry Creek study sites were located downstream of the Halsey Afterbay Dam Reach and would not be affected by the proposed action.

Fish populations were surveyed in Rock Creek approximately 0.9 miles downstream of Rock Creek Dam and at a site located near Dry Creek Road. This sample site was located

approximately one-half mile upstream of the SDM1 WWTP and but downstream of the NID delivery point. Both sites were surveyed on two occasions, once in September of 2008 and again in October of that same year. A total of nine fish were captured in four sampling events, a very low number for a stream of this size. Only three species, rainbow trout (n = 4), mosquitofish (n = 4), and pumpkinseed (n = 1) were observed of which only the rainbow trout is native to California. AECOM (2011) evaluated available fisheries data for the Coon Creek watershed upstream of known barriers and concluded that California roach (*Lavinia symmetricus*), hardhead (*Mylopharodon conocephalus*), Pacific lamprey (*Lampetra tridentata*), Sacramento pikeminnow (*Ptychocheilus grandis*), and Sacramento sucker (*Catostomus occidentalis*) likely occur in at least some streams. The aforementioned species are all native to California streams. In addition to pumpkinseed and mosquitofish, as many as eight non-native fish species may potentially occur in the project area streams.

Stantec conducted an assessment of water releases and discharges to the Rock Creek and Coon Creek systems in the North Auburn area as well as relevant diversions from Coon Creek (see Appendix A). Stantec compiled information from NID and Placer County related to water releases to these systems and wastewater discharges from the SMD1 WWTP to Rock Creek. Camp Far West Canal and Gold Hill I water diversion data was compiled and evaluated to determine the amount of water NID diverts during the irrigation season (mid-April through mid-October) from Coon Creek at those two diversions. The Gold Hill I diversion is located upstream of where Dry Creek and Rock Creek join with Orr Creek to become Coon Creek, while the Coon Creek diversion is located downstream of that confluence. The assessment concluded that during the irrigation season all of the flow delivered to the systems from NID, including the wastewater effluent discharged at SMD1 is diverted from Coon Creek at the Camp Far West diversion. During the non-irrigation season (mid-October through mid-April) the diversion almost always exceeds SMD1 flow plus the NID dilution water. Therefore, the studies proposed in Section 2.0 do not include studies of Coon Creek below the Camp Far West diversion since it was concluded that the SMD1 flow plus the NID dilution water is diverted prior to entering Coon Creek at that location.

2.0 Proposed Studies

The project proponent (City of Lincoln) and Stantec personnel, including biologists, met with representatives from the California Department of Fish and Game (CDFG) and the National Marine Fisheries Service (NMFS) on June 26, 2012 to discuss the proposed project. During this meeting it was generally acknowledged that, as proposed, the project will alter stream flow patterns in the project area streams. During the irrigation season flows will incrementally increase in Orr Creek and will be essentially unchanged in Coon Creek. However, it is the

period outside of the irrigation season that is, potentially, of greatest relevance to aquatic biota. During this period base flows will be:

- Reduced 3.0 – 5.0 cfs in Rock Creek in the 2.1 mile reach below the NID release point.
- Further reduced ~2.6 cfs in between Rock Creek and the confluence of Dry Creek below the SDM1 WWTP discharge.
- Reduced 5.0 – 8.0 cfs in Dry Creek upstream of the Orr Creek confluence but downstream of the Rock Creek confluence.
- Increased in Orr Creek 5.0 – 8.0 cfs
- Unaffected in Coon Creek downstream of the Orr Creek
- Unaffected in Coon Creek downstream of the Camp Far West diversion and therefore, no impact on anadromous fish.

During discussions with agency stakeholders it was acknowledged that little is currently known about the attainment of beneficial uses (e.g., warm freshwater habitat, cold freshwater habitat, spawning, reproduction, and/or early development) in Orr Creek, Rock Creek, and Dry Creek. Further, in order to adequately evaluate the potential effects of the proposed action, data characterizing the quality of existing beneficial uses in these waterbodies is needed.

2.1 METHODS

2.1.1 Beneficial Use Assessment

The objective of this assessment is to characterize the quality of existing beneficial uses in Orr Creek, Rock Creek, and Dry Creek below the Rock Creek confluence. This will be accomplished through activities described in greater detail below. Information developed in this study will be used to determine if greater ecological benefits can be realized by delivering water to Orr Creek rather than Rock Creek. Major components of this study include:

- Flow related habitat assessment
- Fish distribution and abundance
- Benthic macroinvertebrate surveys
- Special status species inventories

DRAFT

- Water quality assessment

Study sites will be located on Rock Creek immediately below the SDM1 outfall, Dry Creek near Creek Haven Road, and Orr Creek upstream of Bell Road (see Attachment 1).

2.1.1.1 Flow related habitat assessment

Flow related habitat will be characterized in Rock Creek and Dry Creek during a period with dilution water, without dilution water, and, if possible, without discharge from the SDM1 WWTP. A similar sampling design will be used for Orr Creek. Flow related habitat will be characterized in the non-irrigation season and will occur during flows intended to mimic the baseline condition, the baseline condition plus flows roughly equal to those provided to Rock Creek for dilution water, and with flows equal to the combination of dilution water and effluent. Depth and velocity will be measured at ten equidistant stations along transects using a Marsh-McBirney Flo Mate. Transect placement will be stratified by dominant macrohabitat type (i.e., pools, riffles, runs, glides) and three replicates will be placed in each macrohabitat type. Transects will be surveyed on each of the three target flows. Surveyors will also visually assess substrate composition and cover availability. All transects will be mapped using sub-meter Trimble GPS, photographed, and riparian conditions, including % cover, will be visually assessed.

2.1.1.2 Fish distribution and abundance

Fish will be sampled at the study locations during the non-irrigation season. Surveyors will capture fish use a backpack electrofisher while moving in the upstream direction focusing sampling effort on structural habitat features. Captured fish will be held temporarily, identified to species, counted and measured, and released back to the stream. Any parasites, tumors, fin damage, or other anomalies will be noted and recorded in the field.

2.1.1.3 Benthic macroinvertebrates

Benthic macroinvertebrates will be collected in the field using the SWAMP multi-habitat approach (SWAMP 2007). This multi-habitat sampling method will be used to sample different macrohabitat types in the stream with varied depth, velocity, and substrate types. Invertebrates are collected using a standard D-frame net. Sampling will occur in conjunction with the fish sampling effort. Samples collected in the field will be preserved in ethanol and transferred to the lab for taxonomic identification. Sample processing will be conducted according to the methods described in the 2003 California Stream Bioassessment Procedure (CSBP), DFG's Quality Assurance Project Plan for the CSBP, and the Southwest Association of Freshwater Invertebrate Taxonomists' Level II Standard Taxonomic Effort.

DRAFT

2.1.1.4 Special status species inventories

Habitat level surveys for special-status species, including foothill yellow-legged frog and northwestern pond turtle, will be conducted in association with the surveys outlined in Sections 2.1.1.1 and 2.1.1.2. The purpose of the surveys will be to identify suitable habitat for these species, which will include the identification of refugia pools. The survey areas will also be scanned for individuals of these species and if they are documented they will be noted and their locations mapped using sub-meter Trimble GPS.

2.1.1.5 Water quality assessment

Surveyors will measure water quality using a standard hand-held instrument while in the field for flow related habitat surveys and for fish distribution and abundance surveys. Sampled parameters will include dissolved oxygen, conductivity, temperature, pH, and turbidity. Stantec personnel will also install continuous temperature logging probes at each of the study sites in order to characterize the thermal environment with respect to known tolerances of aquatic biota in the project area. Probes will be deployed in the late summer and will remain deployed until the early fall. Sensors will be set to document water temperatures every 30 minutes. Stantec personnel will also make use of available temperature monitoring data (e.g., AECOM 2011) where possible.

3.0 Conclusion

Information gathered as a result of this study plan will be used to assess current beneficial uses within the project area as well as anticipated changes to those uses that might result from the implementation of the Proposed Project. This will be accomplished by assessing the suitability of depths and velocities measured in the field using the consensus based Habitat Suitability Curves developed for the Yuba-Bear and Drum-Spaulding hydroelectric projects. The proposed experimental design will allow for stratification of the data by fish species, lifestage, flow, and macrohabitat type. This framework will also allow for comparison of the quantity and quality of habitat available in the Project Area streams. Based on the results of the analysis for fish species, inferences will be made regarding habitat suitability for other special-status aquatic species such as the foothill yellow-legged frog and northwestern pond turtle. The other elements of the proposed work plan (e.g., water quality assessment, benthic macroinvertebrate sampling, etc.) will provide basic data needed to characterize the structural and functional quality of the study sites and to allow for inferences regarding their future condition in conjunction with the proposed changes in discharge of effluent from SMD1 WWTP and NID dilution water in Rock Creek.

DRAFT

4.0 Literature Cited

AECOM. 2011. Initial Study/Mitigated Negative Declaration. Sewer Maintenance District 1 Wastewater Treatment Plant Upgrade and Expansion.

National Marine Fisheries Service (NMFS). 2011. Central Valley Recovery Domain. 5-year Review: Summary and Evaluation of Central Valley Steelhead DPS. National Marine Fisheries Service. Southwest Region. Long Beach, CA.

National Marine Fisheries Service. 2012. Central Valley – Chinook salmon Essential Fish Habitat – fall run. http://swr.nmfs.noaa.gov/fall.htm Accessed July 18, 2012.

Nevada Irrigation District and Pacific Gas and Electric Company (NID & PG&E). 2010. Technical Memorandum 3-2. Instream Flow. Yuba-Bear Hydroelectric Project (FERC Project No. 2266-096). Drum-Spaulding Project (FERC Project No. 2310-173).

Surface Water Ambient Monitoring Program (SWAMP). 2007. Standard Operating Procedures for Collecting Benthic Macroinvertebrate Samples and Associated Physical and Chemical Data for Ambient Bioassessments in California. February 2007.

DRAFT

Attachments

DRAFT

Stantec

NID RELEASE TO ORR CREEK

N

Proposed Study Location

CAMP FAR WEST DIVERSION, ALL NID RELEASE AND SMD1 WWTP DISCHARGE WATER

HIDDEN FALLS

UPPER EXTENT OF CRITICAL STEELHEAD AND SALMON HABITAT

NID CAMP FAR WEST DIVERSION

CAMP FAR WEST DIVERSION, ALL NID RELEASE AND SMD1 WWTP DISCHARGE WATER

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

SMD1 WWTP

SMD1 WWTP PLANT DISCHARGE

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

Proposed Study Location

Proposed Study Location

NID RELEASE (DILUTION WATER)

NID RELEASE (DILUTION WATER)

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

0 0.1 0.2 0.3 0.4 0.5
APPROXIMATE SCALE IN MILES

CRAMER RD
BELL RD
ORR CREEK
49
EDWARDS LN
LORENSON RD
ORR CREEK LN
NEW HOPE SCHOOL RD
OAK CREEK LN
COON CREEK
DRY CREEK
CREEKHAVEN RD
HUBBARD RD
PICKLE BARREL RD
JOEGER RD
ROCK CREEK
NORTH AUBURN
MILLER OAK DR
RICHARDSON DR
DRY CREEK RD
BLUE OAK RANCH RD
MEARS RD
HEREDIA CT
OAK VALLEY DR
MT VERNON RD
QUARTZ DR
PARK DR
MEADOW GLEN RD

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Mid-Western Placer Regional Sewer Project

Attachment 1

Coon Creek Project Area

NOT TO SCALE

Stantec

FROM COMBIE PHASE 1 AND LAKE COMBIE

BEAR RIVER

COMBIE OPHIR I CANAL (NID)

NID RELEASE TO ORR CREEK BR319

ORR/COON CREEK RELEASE

ORR CREEK RES.

GOLD HILL I CANAL (NID)

NATURAL RUNOFF

DRY CREEK

COON CREEK DIVERSION

DELIVERY CAMP FAR WEST CANAL

CAMP FAR WEST CANAL (NID)

CHURCH SPILL DELIVERY TO COON CREEK

CRITICAL HABITAT

COON CREEK

TO DOWNSTREAM IRRIGATION CUSTOMERS

TO LINCOLN, EASTSIDE & MAIN CANAL

COMBIE OPHIR II CANAL (NID)

NATURAL RUNOFF

DRY CREEK

PLACER CO. R3 STREAM GAUGE

ROCK CREEK

NID DELIVERY SMD-1 DILUTION WATER

PLACER CO. R1 STREAM GAUGE

PLACER CO. SMD1 WWTP EFFLUENT DISCHARGE TO ROCK CREEK

NATURAL RUNOFF

FROM BEAR RIVER DIVERSION

BEAR RIVER CANAL (PG&E)

HALSEY FOREBAY (PG&E)

YB-126 FLOW METER

HALSEY AFTERBAY (PG&E)

DRY CREEK

DRY CREEK

ROCK CREEK

RELEASE ROCK CREEK PG&E YB-86

524 AF

ROCK CREEK RESERVOIR (PG&E)

NORTH AUBURN WTP

TREATED SYSTEM

WISE CANAL (PG&E)

TO WISE POWERHOUSE & SOUTH CANAL

ROCK CREEK

COMBIE OPHIR III CANAL (NID)

COMBIE OPHIR IV CANAL (NID) TO DOWNSTREAM IRRIGATION CUSTOMERS

Legend & Notes

- NID
- PG&E
- OTHER
- GAUGING STATION/ FLOW METER
- CRITICAL HABITAT

FLOWS AT COON CREEK ARE APPROXIMATED BY THE SUM OF:

- SMD1 R1 (limited to flows of ~12.69 cfs and lower)
- SMD1 R3 (limited to flows of ~12.69 cfs and lower)
- NID Release to Orr Creek BR319
- SMD1 Effluent Discharge to Rock Creek

LESS:

- Orr Creek Diversion to Gold Hill I

This ignores naturally generated runoff, except R1 & R3

SMD1 R1 FLOW IS THEORETICALLY ALL OF:

- PG&E YB-86 release from Rock Creek Reservoir
- NID sale to SMD1 released to Rock Creek upstream of SMD1 R1
- Natural runoff to Rock Creek upstream of SMD1 R1

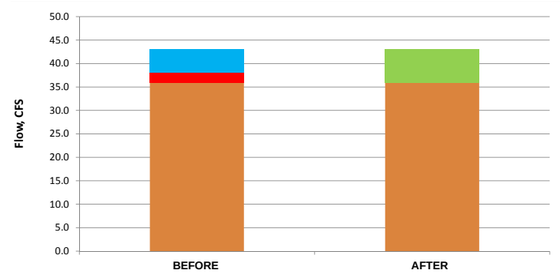
LESS STREAM LOSSES

SMD1 R3 FLOW IS THEORETICALLY ALL OF:

- YB-126 PG&E release from Halsey Afterbay
- Natural runoff to Dry Creek upstream of SMD1 R3

LESS STREAM LOSSES UPSTREAM OF SMD1 R3

Releases or Discharges Contributing to Flow at the Camp Far West Diversion on Coon Creek



NOTE:
PG&E releases at Halsey Afterbay and Rock Creek Reservoir will not be affected by the cessation of effluent discharge to Rock Creek. Therefore those releases are not depicted.

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City of Lincoln

Mid-Western Placer Regional Sewer

Attachment 2
Coon Creek Schematic

Appendix A

DRAFT

Memo - Draft

Stantec

To:	Bruce Burnworth, P.E. City Engineer, City of Lincoln	From:	Dave Price, P.E. Stantec Consulting Services, Inc.
File:	184030291	Date:	June 20, 2012

Reference: Assessment of Flow Changes in Coon Creek Due to Cessation of SMD-1 Effluent Discharge to Rock Creek

This memorandum summarizes the pertinent releases and discharges to the Rock Creek and Coon Creek systems in the North Auburn area as well as the relevant diversions from Coon Creek. The effect on this system associated with the Mid-Western Placer Regional Sewer Project (Regional Sewer Project) is described. Figure 1 shows this system as it currently operates. Figure 2 shows this system as it would be operated after completion of the Regional Sewer Project when the SMD-1 WWTP effluent discharges cease. Figure 3 provides additional information regarding the water system and flows in the area.

The SMD-1 WWTP discharges treated effluent to Rock Creek in a location just north of Joeger Road and upstream of Dry Creek (see Figure 1). Since the late 1990s Placer County has purchased water from NID for dilution of effluent discharged from their SMD-1 WWTP to Rock Creek. The dilution water originates in Combie Reservoir from where it is conveyed through the Bear River Siphon to the Combie Ophir conveyance system. The dilution water is released to Rock Creek upstream of the effluent discharge as shown on Figure 1. The relative location of the WWTP effluent discharge and the dilution water is also shown schematically on Figure 3. The dilution water comingles with the Rock Creek background flow and treated effluent discharged from the WWTP in an attempt to allow the County to comply with Receiving Water Limitations for ammonia. This practice was initiated following failed efforts at achieving adequate nitrification of the wastewater through the SMD-1 treatment process train (ref. Waste Discharge Requirements Order No. R5-2005-0074). Elimination of the effluent discharge would eliminate the need for the NID dilution water to mitigate downstream water quality impacts.

NID operates the Camp Far West Canal diversion structure downstream of where Dry Creek and Rock Creek join with Orr Creek to become Coon Creek. This diversion is used to meet NID obligations to provide irrigation water to NID customers. The diversion structure is upstream of the designated critical habitat for steelhead and salmon (see Figure 1). The critical habitat ends near Hidden Falls. NID also releases water into Orr Creek upstream of NID's Orr Creek Reservoir. During its irrigation season (mid-April to mid-October), NID currently diverts from Coon Creek at its Camp Far West and Gold

DRAFT

Reference: Assessment of Flow Changes in Coon Creek Due to Cessation of SMD-1 Effluent Discharge to Rock Creek

Hill I Diversions all of the water it releases into Rock Creek and Orr Creek as well as the effluent discharged from the SMD1 WWTP into Rock Creek.

During the non-irrigation season and the irrigation season, the amount of water diverted by NID at Camp Far West Canal almost always exceeds the SMD#1 discharge plus the NID dilution flow. Therefore, moving these two releases to the Orr Creek release location will not change the amount of water released into Coon Creek, diverted from Coon Creek or flowing in Coon Creek downstream of the Camp Far West Division. See Figure 4.

Prior to SMD-1 purchase of dilution water, NID met irrigation demands in the Camp Far West canal system, by releasing water into Orr Creek upstream of Coon Creek. The water was then diverted from Coon Creek at the Camp Far West diversion. Currently these irrigation flow needs are met by a combination of Orr Creek releases, Rock Creek releases and SMD-1 discharges. All of this flow is currently diverted from Coon Creek at the Camp Far West diversion during the irrigation season as described above. During the non-irrigation season, the diversion almost always exceeds to SMD-1 flow plus the dilution flow.

Upon completion of the Regional Sewer Project, effluent discharges from the SMD-1 WWTP will cease. To meet its Camp Far West customers' irrigation demands, NID will have to add an equivalent volume of water to replace the effluent and dilution water that will no longer be put into the creek near the SMD-1 WWTP. NID has indicated that this water will be released into Orr Creek (upstream of the NID Orr Creek Reservoir) and removed at the NID Camp Far West diversion as it was before the dilution flows existed.

As noted above, the location of the releases in the upper region of the watershed, upstream of Coon Creek would change after the SMD-1 WWTP effluent discharge ceases. Instead of conveying effluent and dilution water via Rock Creek and Dry Creek to the Camp Far West diversion as is currently occurring, NID will instead make up this needed water at the Orr Creek Release. The release locations and conveyance paths are shown on Figures 1, 2 and 3. The amount of water SMD-1 discharges plus the NID dilution water delivered during both the irrigation and non-irrigation season to Coon Creek will, as a result of the Regional Sewer Project, be moved to Orr Creek and will not change the amount of flow in Coon Creek downstream of the Camp Far West Diversion.

DRAFT

Reference: Assessment of Flow Changes in Coon Creek Due to Cessation of SMD-1 Effluent Discharge to Rock Creek

Therefore, there is not expected to be any impact to Coon Creek except a possible improvement in water quality due to the elimination of the SMD-1 WWTP effluent from the system. No plans are in place to supplement flow in Rock and Dry Creeks to replace the dilution water and effluent. An assessment of impacts to those streams due to ceasing effluent discharge will be the subject of a separate analysis.

Attachment: Figure 1
Figure 2
Figure 3
Figure 4

c. Sue Sindt, NID
Dave Atkinson, P.E., Placer County Facilities Services
Greg Matuzak, Stantec
Gabe Aronow, P.E., Stantec
Cody Fleece, Stantec

DRAFT

Stantec

NID RELEASE TO ORR CREEK

CAMP FAR WEST DIVERSION, ALL NID RELEASE AND SMD1 WWTP DISCHARGE WATER

HIDDEN FALLS

UPPER EXTENT OF CRITICAL STEELHEAD AND SALMON HABITAT

CAMP FAR WEST DIVERSION, ALL NID RELEASE AND SMD1 WWTP DISCHARGE WATER

NID CAMP FAR WEST DIVERSION

COON CREEK

COON CREEK

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

SMD1 WWTP

SMD1 WWTP PLANT DISCHARGE

DRY CREEK

ROCK CREEK

JOEGER RD

MEADOW GLEN RD

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

NID RELEASE (DILUTION WATER)

ROCK CREEK

NID RELEASE (DILUTION WATER)

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

CRAMER RD

BELL RD

ORR CREEK

49

EDWARDS LN

LORENSON RD

NEW HOPE SCHOOL RD

ORR CREEK LN

OAK CREEK LN

COON CREEK

CREEKHAVEN RD

DRY CREEK

HUBBARD RD

PICKLE BARREL RD

MILLER OAK DR

DRY CREEK RD

RICHARDSON DR

QUARTZ DR

PARK DR

BLUE OAK RANCH RD

MEARS RD

HEREDIA CT

OAK VALLEY DR

MT VERNON RD

0 0.1 0.2 0.3 0.4 0.5
APPROXIMATE SCALE IN MILES

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Mid-Western Placer Regional Sewer Project

Figure 1

Current Releases and Discharges to Coon Creek System

Stantec

NID RELEASE TO ORR CREEK

CAMP FAR WEST DIVERSION (ALL NID RELEASE WATER)

HIDDEN FALLS

UPPER EXTENT OF CRITICAL STEELHEAD AND SALMON HABITAT - *NO CHANGE IN FLOW DUE TO REGIONAL SEWER PROJECT*

CAMP FAR WEST DIVERSION (ALL NID RELEASE WATER)

NID CAMP FAR WEST DIVERSION

COON CREEK

COON CREEK

0 100 200 300 400 500
APPROXIMATE SCALE IN FEET

NOTE:
NID RELEASES INTO ORR CREEK, DRY CREEK, AND ROCK CREEK COMBINED ARE EQUAL TO CURRENT TOTAL OF NID RELEASES PLUS SMD1 WWTP RELEASES.

SMD1 WWTP

0 0.1 0.2 0.3 0.4 0.5
APPROXIMATE SCALE IN MILES

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Mid-Western Placer Regional Sewer

Figure 2
Future Releases to Coon Creek System

NOT TO SCALE

FROM COMBIE PHASE 1 AND LAKE COMBIE

BEAR RIVER

COMBIE OPHIR I CANAL (NID)

NID RELEASE TO ORR CREEK BR319

ORR/COON CREEK RELEASE

ORR CREEK RES.

GOLD HILL I CANAL (NID)

NATURAL RUNOFF

DRY CREEK

COON CREEK DIVERSION

DELIVERY CAMP FAR WEST CANAL

CAMP FAR WEST CANAL (NID)

CHURCH SPILL DELIVERY TO COON CREEK

CRITICAL HABITAT

COON CREEK

TO DOWNSTREAM IRRIGATION CUSTOMERS

TO LINCOLN, EASTSIDE & MAIN CANAL

COMBIE OPHIR II CANAL (NID)

NATURAL RUNOFF

DRY CREEK

PLACER CO. R3 STREAM GAUGE

ROCK CREEK

NID DELIVERY SMD-1 DILUTION WATER

PLACER CO. R1 STREAM GAUGE

PLACER CO. SMD1 WWTP EFFLUENT DISCHARGE TO ROCK CREEK

NATURAL RUNOFF

FROM BEAR RIVER DIVERSION

BEAR RIVER CANAL (PG&E)

HALSEY FOREBAY (PG&E)

YB-126 FLOW METER

HALSEY AFTERBAY (PG&E)

DRY CREEK

DRY CREEK

ROCK CREEK

RELEASE ROCK CREEK PG&E YB-86

524 AF

ROCK CREEK RESERVOIR (PG&E)

NORTH AUBURN WTP

TREATED SYSTEM

WISE CANAL (PG&E)

TO WISE POWERHOUSE & SOUTH CANAL

ROCK CREEK

COMBIE OPHIR III CANAL (NID)

COMBIE OPHIR IV CANAL (NID) TO DOWNSTREAM IRRIGATION CUSTOMERS

Legend & Notes

- NID
- PG&E
- OTHER
- GAUGING STATION/ FLOW METER
- CRITICAL HABITAT

FLOWS AT COON CREEK ARE APPROXIMATED BY THE SUM OF:

- SMD1 R1 (limited to flows of ~12.69 cfs and lower)
- SMD1 R3 (limited to flows of ~12.69 cfs and lower)
- NID Release to Orr Creek BR319
- SMD1 Effluent Discharge to Rock Creek

LESS:

- Orr Creek Diversion to Gold Hill I

This ignores naturally generated runoff, except R1 & R3

SMD1 R1 FLOW IS THEORETICALLY ALL OF:

- PG&E YB-86 release from Rock Creek Reservoir
- NID sale to SMD1 released to Rock Creek upstream of SMD1 R1
- Natural runoff to Rock Creek upstream of SMD1 R1

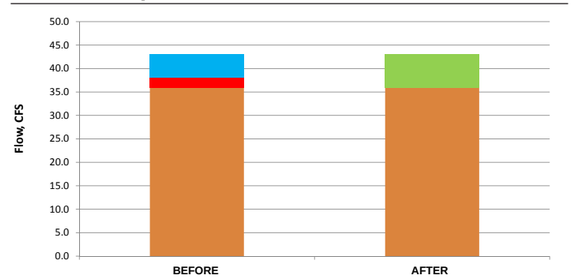
LESS STREAM LOSSES

SMD1 R3 FLOW IS THEORETICALLY ALL OF:

- YB-126 PG&E release from Halsey Afterbay
- Natural runoff to Dry Creek upstream of SMD1 R3

LESS STREAM LOSSES UPSTREAM OF SMD1 R3

Releases or Discharges Contributing to Flow at the Camp Far West Diversion on Coon Creek



NOTE:
PG&E releases at Halsey Afterbay and Rock Creek Reservoir will not be affected by the cessation of effluent discharge to Rock Creek. Therefore those releases are not depicted.

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Mid-Western Placer Regional Sewer

Figure 3
Coon Creek Schematic



Figure 4

Historical Camp Far West Diversion, SMD1 Effluent Discharge & NID Dilution Release

Nevada Irrigation District SMD1 Effluent Discharge Letter

Appendix E

NEVADA IRRIGATION DISTRICT

1036 W. Main Street, Grass Valley, CA 95945-5424 ~ www.nidwater.com
(530) 273-6185 ~ Fax: (530) 477-2646 ~ Toll Free: (800) 222-4102

November 16, 2012

Attention: David C. Lee, P.E.
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

RE: Placer County Sewer Maintenance District No. 1 Effluent Discharge Change

Dear Mr. Lee,

Below is the Nevada Irrigation District's (NID) response to the questions asked in your October 28, 2012 letter:

1. *Does NID divert o flow equivalent to both the SMD 1 discharge, and the NID dilution to Rock Creek, into the Camp Far West Canal in the irrigation season? In other words, does NID assume that its irrigation-season diversion to Camp Far West Canal includes all of the SMD 1 discharge and the NID dilution release into Rock Creek?*

   Nevada Irrigation District diverts an amount necessary to meet the demands of NID customers into the Camp Far West Canal. The water diverted could be comprised of any combination of the natural flow of Coon Creek, NID water imported to Coon Creek from Combie Reservoir and the SMD 1 discharge. To the extent that that SMD 1 discharge is less than the total amount diverted by NID, NID could be diverting all of the SMD 1 discharge.

2. *If both the SMD 1 wastewater discharge (2.6 cfs) and the NID dilution flow discharge to Rock Creek (3 and 5 cfs) cease, would NID add an equivalent release (state combined flow) of raw water into its system to meet irrigation season diversion requirements into the Camp Far West Canal?*

   If yes, what would be the source of the water and, where would the new release point be located?

   Yes, NID needs to convey the appropriate amount of water to meet the customer demands in the Camp Far West Canal. The source of the replaced water will be water from Combie Reservoir on the Bear River, conveyed through NID's Combie-Ophir Canal System to the existing release point from the Combie Ophir I Canal to Orr Creek.

3. *If the SMD 1 wastewater discharge ceases, would there be other impacts to NID (e.g. loss of reclamation credits)?*

NID files numerous water right reports with the SWRCB in which usage for a portion of the SMD 1 discharge is included as being reclaimed. These reports include the Progress Report by Permittee, Reports of Licensee and Statement of Water Diversion and Use. NID will need to evaluate the impact of losing SMD 1 water to our overall water supply to determine the significance and if there will be any impacts to the potential quantity of water NID could obtain licenses for from the SWRCB.

4. *As mentioned, NID currently delivers between 3 and 5 cfs of raw water to dilute SMD 1 effluent discharged to Rock Creek; we understand the delivery point for that release is just east of Highway 49 in North Auburn.*

    a. *If the SMD 1 plant ceases its purchase of the above mentioned dilution water, would NID cease its delivery of the dilution water to Rock Creek at that location?*

        Yes.

    b. *If yes, will NID put that water somewhere else, upstream of the Camp Far West diversion? If so:*

        i. *Where and how much?*

            NID will move the location of the delivery to the Camp Far West Canal upstream to the existing release point at Orr Creek from the Combie Ophir I Canal.

        ii. *Will NID continue to make seasonal adjustments; e.g. continue to deliver 5 cfs in the summer and 3 cfs in the winter?*

            Yes, seasonal adjustments will continue as presently occur. Demand for water is greater during the irrigation season than in the winter.

Please contact Sue Sindt of my staff if you need any further assistance.

Sincerely,

Timothy A. Crough, P.E.
Interim General Manager

City of
Lincoln
Live. Life. Lincoln

October 28, 2012

Attention: Tim Crough
Interim General Manager
Nevada Irrigation District
1036 West Main Street
Grass Valley, CA 95945

RE: Placer County Sewer Maintenance District No. 1 Effluent Discharge Change

Dear Mr. Crough,

It is our understanding that in recent weeks you have been in contact with Stantec Consulting Services Inc., the consultants preparing permitting and environmental documentation activities for the Mid-Western Placer Regional Sewer Project (Regional Sewer Project), and are willing to provide us some additional information that will be useful as we move forward with these documents. A major aspect of the Regional Sewer Project is the cessation of effluent discharge from the Placer County Sewer Maintenance District No. 1 (SMD 1) Joeger Road wastewater treatment plant (WWTP) to Rock Creek.

Placer County currently owns and operates the SMD 1 WWTP located on Joeger Road in north Auburn. The current average dry weather flow treated at the WWTP ranges from 2.3 to 2.6 cubic feet per second (cfs); its permitted capacity is 3.4 cfs. The WWTP currently discharges treated effluent into Rock Creek at two locations. In addition, the County currently purchases 5 cfs of dilution water from NID in the summer and 3 cfs in the winter; the dilution water is delivered to Rock Creek upstream of the WWTP.

As you may know, because the SMD 1 WWTP is currently unable to meet the final effluent limitations in its NPDES permit, the County has partnered with the City of Lincoln to implement the Regional Sewer Project which would decommission the WWTP and convey its effluent to the City of Lincoln's existing wastewater treatment and reclamation facility. The Regional Sewer Project is anticipated to take up to three years to construct with the elimination of the current SMD-1 WWTP discharge to Rock Creek possibly by the second year of construction.
As mentioned, a major component of the Regional Sewer Project is the cessation of both the discharge from the SMD 1 WWTP to Rock Creek and the purchase of dilution water from NID. In general, we would like to understand how NID operations would change as a result of the implementation of the Regional Sewer Project. Specifically, we are hoping you could provide answers to the following list of questions:

1. Does NID divert a flow equivalent to both the SMD 1 discharge, and the NID dilution to Rock Creek, into the Camp Far West Canal in the irrigation season? In other words, does NID assume that its irrigation-season diversion to Camp Far West Canal includes all of the SMD 1 discharge and the NID dilution release into Rock Creek?

2. If both the SMD 1 wastewater discharge (2.6 cfs) and the NID dilution flow discharge to Rock Creek (3 and 5 cfs) cease, would NID add an equivalent release (state combined flow) of raw water into its system to meet irrigation season diversion requirements into the Camp Far West Canal?

   If yes, what would be the source of the water and, where would the new release point be located?

3. If the SMD1 wastewater discharge ceases, would there be other impacts to NID (e.g. loss of reclamation credits)?

   If yes, please explain.

4. As mentioned, NID currently delivers between 3 and 5 cfs of raw water to dilute SMD1 effluent discharged to Rock Creek; we understand the delivery point for that release is just east of Highway 49 in North Auburn.

   a. If the SMD1 plant ceases its purchase of the above mentioned dilution water, would NID cease its delivery of that dilution water to Rock Creek at that location?

   b. If yes, will NID put that water somewhere else, upstream of the Camp Far West diversion? If so:

      i. Where and how much?
      ii. Will NID continue to make seasonal adjustments; e.g. continue to deliver 5 cfs in the summer and 3 cfs in the winter?

Your written response within 30 days of this request would be greatly appreciated. If you have any questions at all regarding this request please feel free to contact me at the number below, or via e-mail at dlee@ci.lincoln.ca.us.

Thank you for your assistance with this matter.

Sincerely,

David C. Lee, P.E.
Project Manager
Mid-Western Placer Regional Wastewater Project
Office: (916) 434-2451
Cell: (916) 261-2830
E-mail: dlee@ci.lincoln.ca.us

cc: Mark Miller, City of Lincoln
David Price, Stantec

NOP Letter and Responses

Appendix F

MIWOK
MAIDU

United Auburn Indian Community
of the Auburn Rancheria

David Keyser	Kimberly DuBach	Gene Whitehouse	Brenda Adams	Calvin Moman
Chairman	Vice Chair	Secretary	Treasurer	Council Member

June 21, 2012

Bruce Burnworth
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

Subject: Mid-Western Placer Regional Sewer Project, NOP for DEIR

Dear Mr. Burnworth,

Thank you for initiating formal consultations with the United Auburn Indian Community (UAIC) of the Auburn Rancheria. The UAIC would like to consult on the Mid-Western Placer Regional Sewer Project, Notice of Preparation (NOP) for Draft Environmental Impact Report (DEIR), El Dorado County. The UAIC is comprised of Miwok and Nisenan (Southern Maidu) people whose tribal lands are within Placer County and ancestral territory spans into Eldorado, Nevada, Sacramento, Sutter, and Yuba counties. The UAIC is concerned about development within its aboriginal territory that has potential to impact the lifeways, cultural sites, and landscapes that may be of sacred or ceremonial significance. We appreciate the opportunity to comment on this and other projects in your jurisdiction.

We would like to make a few general points for consideration in developing the scope and content of the Mid-Western Placer Regional Sewer Project, NOP for DEIR:

- The UAIC recommends that projects within the Mid-Western Placer Regional Sewer Project, NOP for DEIR jurisdiction be designed to incorporate known cultural sites into open space or other protected areas;

- The UAIC is interested in holding conservation easements for culturally significant prehistoric sites;

- The UAIC would like the opportunity to provide Tribal representatives to monitor projects if excavation and data recovery are required for prehistoric cultural sites, or in cases where ground disturbance is proposed at or near sensitive cultural resources;

- The UAIC is interested in receiving cultural materials from prehistoric sites where excavation and data recovery has been performed;

- The UAIC would like to receive copies of environmental notices and documents for projects within the jurisdiction of the Mid-Western Placer Regional Sewer Project, NOP for DEIR;

- The UAIC would like to receive all confidential cultural and archaeological reports within the jurisdiction of the Mid-Western Placer Regional Sewer Project, NOP for DEIR.

Thank you again for taking these matters into consideration, and for involving the UAIC early in the planning process. We look forward to reviewing the aforementioned documents as requested. Please contact Marcos Guerrero, Tribal Historic Preservation Officer, at (530) 883-2364 or email at mguerrero@auburnrancheria.com if you have any questions.

Sincerely,

David Keyser,
Chairman

CC: Marcos Guerrero, THPO

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
JUN 2 1 2012

Mr. Bruce Burnworth
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

Dear Mr. Burnworth:

NOTICE OF PREPARATION (NOP) FOR THE CITY OF LINCOLN (CITY); MID-WESTERN PLACER REGIONAL SEWER PROJECT (PROJECT); PLACER COUNTY; STATE CLEARINGHOUSE NO. 2012052083

The City is the lead agency under the California Environmental Quality Act (CEQA), and Placer County (County) is a responsible agency under CEQA for the Project. We understand that the County is pursuing Clean Water State Revolving Fund (CWSRF) financing for a portion of this Project, and appreciate the City, the County, and Stantec's responsiveness and cooperation in providing information on the Project. As a funding agency and a State agency with jurisdiction by law to preserve, enhance, and restore the quality of California's water resources, the State Water Resources Control Board (State Water Board) is providing the following information on the NOP, for which a future Environmental Impact Report (EIR) will be prepared for the Project.

Please provide us with the following documents applicable to the Project, following the City and the County's California Environmental Quality Act (CEQA) processes: 1) one copy of the draft and final EIR, 2) the City and County's resolution certifying the EIR, adopting a Mitigation Monitoring and Reporting (MMRP), and making CEQA findings, 3) all comments received during the review period and the responses to those comments, 4) the adopted MMRP and any applicable Statements of Overriding Consideration, and 5) the City and County's Notice of Determination filed with the Placer County Clerk and the Governor's Office of Planning and Research, State Clearinghouse. In addition, we would appreciate notices of any hearings or meetings held regarding environmental review of any projects to be funded by the State Water Board.

The CWSRF Program is partially funded by the United States Environmental Protection Agency (USEPA) and requires additional "CEQA-Plus" environmental documentation and review. Four enclosures are included that further explain the CWSRF Program environmental review process, and the additional federal requirements. The State Water Board is required to consult directly with agencies responsible for implementing federal environmental laws and regulations. Any environmental issues raised by federal agencies or their representatives will need to be resolved prior to State Water Board approval of a CWSRF financing commitment.

It is important to note that prior to a CWSRF financing commitment, projects are subject to provisions of the Federal Endangered Species Act (ESA), and must obtain Section 7 clearance from the United States Department of the Interior, Fish and Wildlife Service (USFWS), and/or the United States Department of Commerce National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NMFS), for any potential effects to special status species.

We understand that the Project may have the potential to impact federal special-status species under the USFWS and NMFS jurisdictions, and thus, will require consultation with those agencies under the federal ESA. The State Water Board will be working collaboratively with the United States Army Corps of Engineers (USACE) and the USEPA to complete those consultations. The City and/or County will be required to comply with any applicable conditions of the USFWS and NMFS approval, and the USACE Clean Water Act Section 404 permit.

The City will need to identify whether the Project will involve any direct effects from construction activities, or indirect effects, such as growth inducement, that may affect federally listed threatened, endangered, or candidate species that are known, or have a potential to occur on-site, in the surrounding areas, or in the service area, and to identify applicable conservation measures to reduce such effects.

In addition, CWSRF projects must comply with federal laws pertaining to cultural resources, specifically Section 106 of the National Historic Preservation Act. The State Water Board has responsibility for ensuring compliance with Section 106, and the State Water Board must consult directly with the California State Historic Preservation Officer (SHPO). SHPO consultation is initiated when sufficient information is provided by the CWSRF applicant. The City and/or County must retain a consultant that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm) to prepare a Section 106 compliance report.

Note that the City and/or the County will need to identify the Area of Potential Effects (APE), including construction and staging areas, and the depth of any excavation. The APE is three-dimensional and includes all areas that may be affected by the Project. The APE includes the surface area and extends below ground to the depth of any Project excavations. The records search request should be made for an area larger than the APE. The appropriate area varies for different projects, but should be drawn large enough to provide information on what types of sites may exist in the vicinity.

Other federal requirements pertinent to the Project under the CWSRF Program include the following:

A. Compliance with the federal Clean Air Act: (a) Provide air quality studies that may have been done for the Project; and (b) if the Project is in a nonattainment area or attainment area subject to a maintenance plan; (i) provide a summary of the estimated emissions (in tons per year) that are expected from both the construction and operation of the Project for each federal criteria pollutant in a nonattainment or maintenance area, and indicate if the nonattainment designation is moderate, serious, or severe (if applicable); (ii) if emissions are above the federal de minimis levels, but the Project is sized to meet only the needs of current population projections that are used in the approved State Implementation Plan for air quality, quantitatively indicate how the proposed capacity increase was calculated using population projections.

B. Protection of Wetlands: Identify any portion of the proposed Project area that should be evaluated for wetlands or United States waters delineation by the USACE, or require a permit from the USACE, and identify the status of coordination with the USACE.

C. Compliance with the Farmland Protection Policy Act: Identify whether the Project will result in the conversion of farmland. State the status of farmland (Prime, Unique, or Local and Statewide Importance) in the Project area, and determine if this area is under a Williamson Act Contract.

D. Compliance with the Migratory Bird Treaty Act: List any birds protected under this act that may be impacted by the Project, and identify conservation measures to minimize impacts.

E. Compliance with the Flood Plain Management Act: Identify whether or not the Project is in a Flood Management Zone, and include a copy of the Federal Emergency Management Agency flood zone maps for the area.

Specific comments on the City's NOP include:

1. Page 3 mentions that the Project is anticipated to be constructed within three years. The Project includes the construction of pipelines within roadways and through some alternative cross-country areas. Please identify the total pipeline length, including the length of the cross-country segments. Clarify if the pipeline construction will be phased over the three years, and discuss how many miles of pipeline will be constructed per day.

2. Page 4 states that the "Pipeline crossings of Auburn and Doty Ravines would utilize trenchless technologies or bridges so there would be no open trenching through these perennial streams." Please discuss the types of trenchless technologies to be used during pipeline construction, and include a map that identifies the number of stream crossings and bridges that will be utilized for the pipeline crossings.

3. Page 5 mentions that effluent discharge to Rock Creek and Auburn Ravine will cease as a result of the Project, and "Mitigation measures will be developed and presented in the Draft EIR." We recommend that those mitigation measures are developed in consultation with the NMFS, as well as the California Department of Fish and Game.

Thank you again for the opportunity to review the City's NOP, and we look forward to reviewing and commenting on the draft EIR when it is available. If you have any questions or concerns, please feel free to contact me at (916) 327-9401, or by email at LDLEE@waterboards.ca.gov.

Sincerely,

Lisa Lee
Environmental Scientist

cc: State Clearinghouse
(Re: SCH# 2012052083)
P.O. Box 3044
Sacramento, CA 95812-3044

Enclosures (4)

1. SRF & CEQA-Plus
2. Quick Reference Guide to CEQA Requirements for State Revolving Fund Loans
3. Instructions and Guidance for "Environmental Compliance Information"
4. Basic Criteria for Cultural Resources Reports

WHAT IS CEQA-PLUS?

The SRF Loan Program is partially funded by the U.S. Environmental Protection Agency (USEPA) and subject to federal environmental regulations, including the Endangered Species Act (ESA), the National Historic Preservation Act (NHPA), and the General Conformity Rule for the Clean Air Act (CAA), among others. Federal agencies have their own policies on how they comply with federal environmental laws. Instead of the National Environmental Policy Act (NEPA), USEPA has chosen to use the California Environmental Quality Act (CEQA) as the compliance base for California's SRF Loan Program, in addition to compliance with ESA, NHPA and CAA. Collectively, the State Water Board calls these requirements **CEQA-Plus.** Additional federal regulations also may apply.

Lead Agency: The Applicant

Duties:

- Prepare, circulate and consider the environmental documents prior to approving the project.
- Provide the State Water Board with eight (8) copies of the applicant's CEQA documents.

Responsible Agency: State Water Board, Division of Financial Assistance

Duties:

- Acting on behalf of USEPA, review and consider the CEQA documents before approving the project's funding.
- Make findings as to the adequacy of the documents and require additional studies or documentation, as needed.
- Distribute the applicant's CEQA documents to selected federal agencies for review and comment before making a determination on adequacy. (This distribution is in addition to the standard State Clearinghouse distribution under CEQA.)

***The applicant must address all comments by federal agencies before funding is approved.**

ENDANGERED SPECIES ACT

Non-federal Representative (for all wastewater and water reclamation projects in California that involve an SRF loan): **State Water Board**

State Water Board - Environmental Services Staff (ES) reviews SRF projects to determine potential effects on federally listed species.

Applicant Duties:

- At the earliest possible date, provide ES with:
  - **Species lists.**
  - **Biological assessments.**
  - **Other documents related to project effects on sensitive species.**
- Notify ES **early** during the planning process of any issues regarding sensitive species.

ES Duties:

- Confer informally with the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS), as necessary.
- Evaluate and inform USFWS/NMFS of project impacts to federally listed species.
- Ask USEPA to request formal consultation if ES, in conjunction with USFWS/NMFS, determines that a project will adversely affect a federally listed species.

***USEPA will act as the lead agency in the formal consultation process. In response to a formal request from USEPA, USFWS/NMFS may have up to 90 days to prepare a biological opinion. The process can last 135 days or longer.**

CLEAN AIR ACT

CAA general conformity analysis applies only to projects in areas:

- Not meeting National Ambient Air Quality Standards (NAAQS).
- Subject to a maintenance plan.

An analysis is necessary for each **criteria pollutant below** for which an area is considered as being in nonattainment or maintenance:

- **ozone**
- **carbon monoxide**
- **nitrogen dioxide**
- **sulfur dioxide**
- **lead**
- **inhalable particulate matter**

If project emissions are **below the "de minimis" levels** and less than 10% of the emissions inventory for the non-attainment or maintenance area, then:

- **Further general conformity analysis is not required.**

If project emissions are **above the "de minimis" levels**:

- **A conformity determination for the area must be made.**

A conformity determination can be made if facilities are sized to meet the needs of current population projections used in an **approved** State Implementation Plan (SIP) for air quality. Using population projections, applicants must **quantify** their description of how the proposed capacity increase was calculated.

NATIONAL HISTORIC PRESERVATION ACT

Section 106 of the NHPA requires federal agencies to take into account effects on historic properties caused by federal actions (such as funding SRF projects) and to provide the Advisory Council on Historic Preservation (ACHP) a reasonable opportunity to comment on such undertakings through consultation with the State Historic Preservation Officer (SHPO) and with interested Indian Tribes and individuals.

***USEPA has delegated to the State Water Board the responsibility for carrying out the requirements of Section 106 of the NHPA.**

Historic properties include:

- Archaeological sites.
- Historic era buildings.
- Traditional cultural properties.

Starting point for the 106 process: Applicant's record search and cultural resource documents prepared for CEQA.

State Water Board's Cultural Resource Officer (CRO) requires:

- Copies of all original maps and studies for consultation with SHPO.

If your project has the potential to affect historic properties the consultation process can be quite lengthy. **Please contact the CRO early in your planning process to discuss what additional information may be needed for your specific project.**

Environmental Review Process Guidelines for State Revolving Fund Loan Applicants document provides additional information on the review process and can be found on the State Water Board's web site located at:

http://www.waterboards.ca.gov/funding/srf.html

Water Boards

SRF & CEQA-PLUS

Environmental Review for State Revolving Fund (SRF) Loan Applicants



- WHAT - WHY - HOW -

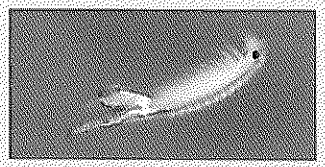
State Water Resources Control Board
Division of Financial Assistance
November 2005

Endangered Species

Compliance with Section 7 of the Endangered Species Act

Information Needed from the Applicant:

- List of special status species (both animal and plant) likely or possibly to occur at project site. *Note: If none will possibly occur, provide supporting information.*
- Any biological assessments or special biological studies that may have been done for the project.
- Other documents that disclose information about the project's effect on sensitive species.



Protection of Wetlands

Information Needed from the Applicant:

- Identification of whether or not the project or construction activities will impact streams, flood control channels, or wetlands.

Air Quality

Compliance with the Federal Air Quality Act

Information Needed from the Applicant:

- Air quality studies that may have been done for the project.
- For those projects in non-attainment areas or attainment areas subject to maintenance plans:
  - → Emission data for each criteria pollutant for which the area has been designated non-attainment or maintenance; and
  - → Summary of the emissions that are expected from both the construction and operation of the project for each criteria pollutant in a non-attainment or maintenance area.
- If emissions are above the federal de minimis levels, but the project is sized to meet only the needs of current population projections that are used in the approved State Implementation Plan for air quality:
  - → Quantitatively indicate how the proposed capacity increase was calculated using population projections.

Floodplain Management

Information Needed from the Applicant:

- Identification of whether or not the project is in a Flood Management Zone and a copy of the Federal Emergency Management Agency flood zone maps for the project area.

Farmland Protection Policy Act

Information Needed from the Applicant:

- Identification of whether or not the proposed project will impact any important farmland or land under Williamson Act control.

Coastal Zone Management Act

Information Needed from the Applicant:

- Identification of whether or not the proposed project is in the Coastal Zone.

Cultural Resources

Compliance with Federal Section 106 of the National Historic Preservation Act

Information Needed from the Applicant:

- Current records search with maps showing all sites and surveys drawn in relation to the project area.
- Native American consultation.
- Instructions as to how to get started are found in the CEQA Guidelines, since these two items are basic to any cultural resources review.

Migratory Bird Treaty Act

Information Needed From the Applicant:

- Identification of whether or not the project is within jurisdiction of the Migratory Bird Treaty Act.

Wild and Scenic Rivers Act

Information Needed from the Applicant:

- Identification of whether or not the project will impact any Wild and Scenic Rivers.

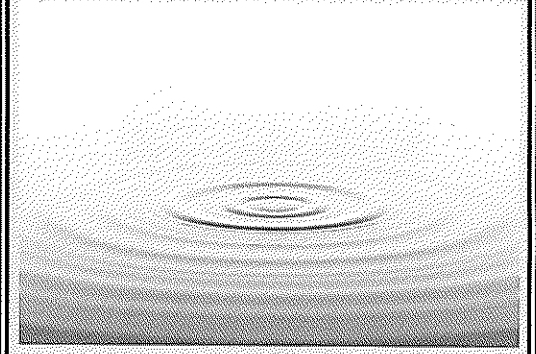
Other Requirements

Information Needed from the Applicant:

- Eight (8) copies of the final CEQA document.
- A date-stamped copy of the Notice of Determination or the Notice of Exemption filed with the Governor's Office of Planning and Research and a receipt of the filling fees paid to the California Department of Fish and Game for Negative Declarations (ND) or Environmental Impact Reports (EIR).
- A copy of the Resolution from the lead agency, approving or certifying the CEQA document and their project. *Note: The CEQA Guidelines uses "approve" or "adopt" for ND and "certify" for EIR.*

Quick Reference Guide to the California Environmental Quality Act (CEQA)-Plus Requirements for State Revolving Fund Loans

Guide to Federal Requirements



State Water Resources Control Board
Division of Financial Assistance
January 2008

CLEAN WATER STATE REVOVLING FUND PROGRAM
INSTRUCTIONS AND GUIDANCE FOR
"ENVIRONMENTAL COMPLIANCE INFORMATION"

Introduction:

The State Water Resources Control Board (State Water Board) uses the California Environmental Quality Act (CEQA) review process and compliance with federal environmental laws and regulations to satisfy the environmental requirements of the Clean Water State Revolving Fund (CWSRF) Program Operating Agreement between the United States Environmental Protection Agency (USEPA) and the State Water Board. The CWSRF Program is partially funded by a capitalization grant from the USEPA. The issuance of funds from the CWSRF Program is equivalent to a federal action, and thus, compliance with federal environmental laws and regulations is required for projects being funded under the CWSRF Program.

All CWSRF Program applicants must submit adequate and complete environmental documentation to the State Water Board. Following submittal of an applicant's environmental documents, the State Water Board will review the documents to determine if the information is sufficient to document compliance with the CWSRF Program environmental requirements, including making a determination if consultation with federal authorities is required, and may request additional environmental information, when needed. The State Water Board encourages all applicants to initiate early consultation, so that the State Water Board can better streamline the environmental review process.

CEQA Information:

All projects coming to the State Water Board for funding are considered "projects" under CEQA because of the State Water Board's discretionary decision to approve funding.

Detailed information, including CEQA statutes and guidelines can be found online at the California Natural Resources Agency website at http://ceres.ca.gov/ceqa. A CEQA Process Flowchart that shows interaction points between lead and responsible agencies can be found at http://ceres.ca.gov/topic/env_law/ceqa/flowchart/index.html. In addition, State Water Board environmental staff is available to answer questions about the CEQA process, as well as the CWSRF Program environmental requirements. Please contact your assigned Project Manager at the State Water Board, regarding contact information for the appropriate environmental staff.

CEQA requires full disclosure of all aspects of the project, including impacts and mitigation measures that are not only regulated by state agencies, but also by federal agencies. Early consultation with state and federal agencies in the CEQA process will assist in minimizing changes to the project when funding is being requested from the State Water Board.

The types of CEQA documents that may apply to an applicant's project include one or a combination of the following: 1) Notice of Exemption (NOE); 2) Initial Study and Negative Declaration (ND); 3) Initial Study and Mitigated Negative Declaration (MND) with a Mitigation Monitoring and Reporting Program (MMRP); 4) Environmental Impact Report (EIR) with an MMRP; and/or 5) Addendum, Supplemental and Subsequent ND, MND or EIR. The applicant must determine the appropriate document for its project and submit the supporting information listed under the applicable section of the Environmental Package Checklist for Applicant (Attachment 1), along with a completed copy of the Evaluation Form for Environmental Review and Federal Coordination (Attachment 2). Please submit two copies of all CEQA documents.

The applicant must ensure the CEQA document is specific to the project for which funding is being requested. Program or Master Plan EIRs may not be suitable for satisfying the State Water Board environmental requirements if these documents are not project-specific. When an applicant uses an Addendum, Supplemental or Subsequent CEQA document for a project, the associated Program or Master Plan EIR must also be submitted, especially if the Addendum, Supplemental or Subsequent CEQA document includes references to pertinent environmental and mitigation information contained in the Program or Master Plan EIR.

If the applicant is using a CEQA document that is older than five years, the applicant must re-evaluate environmental and project conditions, and develop and submit an updated environmental document (such as an Addendum, Supplemental or Subsequent CEQA document) based on the results of that re-evaluation. The updated environmental document must be circulated through the State Clearinghouse for public review. The applicant must adopt the final updated environmental document, including any new identified measures, make CEQA findings, and file a Notice of Determination (NOD) with the local county clerk(s) and the Governor's Office of Planning and Research, State Clearinghouse (State Clearinghouse).

Each applicant, if it is a public agency, is responsible for approving the CEQA documents it uses regardless of whether or not it is a lead agency under CEQA. Non-profit organizations shall only be responsible for approving and ensuring implementation of the applicable project mitigation measures identified in the MMRP. All public agencies applying for CWSRF Program funding shall file either an NOE or an NOD with the State Clearinghouse and the local county clerk(s). Date stamped copies of those notices must be submitted with all the applicable environmental documents.

If the CEQA document was jointly prepared by a federal public governmental agency to satisfy the National Environmental Policy Act (NEPA) requirements, then the applicant must submit the corresponding NEPA documents, including a Finding of No Significant Impact, or a Record of Decision completed by the federal NEPA lead agency.

Federal Information:

In addition to CEQA compliance, the State Water Board is required to document environmental compliance with federal environmental laws and regulations, including:

1. Federal Endangered Species Act (ESA), Section 7:

The United States Department of the Interior, Fish and Wildlife Service (USFWS) and the United States Department of Commerce National Oceanic and Atmospheric Administration, National Marine Fisheries Service (NMFS) must be consulted for any project that will have the potential to adversely impact a federal special-status species. The USEPA delegated the State Water Board to act as the non-federal lead for initiating informal Section 7 ESA consultation with the USFWS. The State Water Board will coordinate with the USEPA for projects requiring formal Section 7 ESA consultation with the USFWS and projects that will impact federal special-status fish species under the NMFS jurisdiction. The USFWS and NMFS must provide written concurrence prior to a CWSRF financing agreement. USFWS and NMFS comments may include conservation measures, for which the applicant's CWSRF financing agreement will be conditioned to ensure compliance.

For further information on the federal ESA law, regulation, policy, and notices, go to http://www.fws.gov/endangered/policy/index.html and http://www.nmfs.noaa.gov/pr/laws/esa/. Note that compliance with both the state and federal ESAs is required of projects having the potential to impact state and federal special-status species. Although overlap exists between the state and federal ESAs, there might be additional or more restrictive state requirements. For further information on the state ESA, refer to the California Department of Fish and Game website at http://www.dfg.ca.gov/habcon/cesa/.

2. Magnuson-Stevens Fishery Conservation and Management Act, Essential Fish Habitat (EFH):

The Magnuson-Stevens Fishery Conservation and Management Act, as amended, is designed to manage and conserve national fishery resources. EFH consultations are only required for actions that may adversely effect EFH. The applicant needs to determine whether the proposed project may adversely affect EFH. NMFS is responsible for publishing maps and other information on the locations of designated EFH, and can provide information on ways to promote conservation of EFHs to facilitate this assessment. If a project may adversely affect a designated EFH, the applicant must complete an EFH consultation.

The State Water Board will coordinate with the USEPA to request an EFH consultation from the NMFS. NMFS is required to respond informally or in writing. NMFS comments may include conservation measures, for which the applicant's CWSRF financing agreement will be conditioned to ensure compliance. For more information, see the brochure at http://www.nmfs.noaa.gov/sfa/reg_svcs/Council%20stuff/council%20orientation/2007/2007TrainingCD/TabT-EFH/EFH_CH_Handout_Final_3107.pdf.

3. National Historic Preservation Act (NHPA), Section 106:

The NHPA focuses on federal compliance. Section 106 requires Federal agencies to take into account the effects of their undertakings on historic properties. The Section 106 process seeks to accommodate historic preservation concerns with the needs of Federal undertakings through consultation among the agency official and other parties with an interest in the effects of the undertaking on historic properties. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. The Section 106 compliance efforts and reports must be prepared by a qualified researcher that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm).

In addition, CEQA requires that impacts to cultural and historic resources be analyzed. The "CEQA and Archeological Resources" section from the Governor's Office of Planning and Research CEQA Technical Advice Series states that the lead agency obtains a current records search from the appropriate California Historical Resources Information System Center. Also, to contact the Native American tribes that are culturally affiliated with a project area from the list obtained from the Native American Heritage Commission (NAHC).

The NAHC can be contacted at:

915 Capitol Mall, Room 364
Sacramento, CA 95814
Tele: (916) 653-4082

4. Clean Air Act:

For CWSRF financed projects, we recommend including a general conformity section in the CEQA documents so that another public review process will not be needed, should a conformity determination be required. The applicant should check with its local air quality management district and review the Air Resources Board California air emissions map for information on the State Implementation Plan. For information on the analysis steps involved in evaluating conformity, please contact the State Water Board environmental staff through the assigned Project Manager.

5. Coastal Zone Management Act:

Projects proposing construction in the Coastal Zone will require consultation with either the California Coastal Commission (or the designated local agency with a Local Coastal Program), or the San Francisco Bay Conservation and Development Commission (for projects located in the San Francisco Bay area). The applicant must submit a copy of the approved Coastal Development permit to the State Water Board to satisfy this requirement.

For more information on Coastal Zone Management Act requirements refer to the following agencies websites:

- United States Coastal Zone Boundaries through the NMFS website at http://coastalmanagement.noaa.gov/mystate/docs/StateCZBoundaries.pdf;
- California Coastal Commission website at http://www.coastal.ca.gov/ccatc.html; and/or
- San Francisco Bay Conservation and Development Commission website at http://www.bcdc.ca.gov/.

6. Coastal Barriers Resources Act:

The Coastal Barriers Resources Act is intended to discourage development in the Coastal Barrier Resources System and adjacent wetlands, marshes, estuaries, inlets, and near-shore waters. Since there is no designated Coastal Barrier Resources System in California, no impacts from California projects are expected. However, should the applicant believe there may be impacts to the Coastal Barrier Resources System due to special circumstances, please use the following information as a guide.

During the planning process, the applicant should consult with the appropriate Coastal Zone management agency (e.g., City or County with an approved Local Coastal Program, the California Coastal Commission, or the San Francisco Bay Conservation and Development Commission) to determine if the project will have an effect on the Coastal Barrier Resources System. If the project will have an effect on the Coastal Barrier Resources System, the State Water Board must consult with the appropriate Coastal Zone management agency and the USFWS. Any recommendations from the Coastal Zone management agency and USFWS will be incorporated into the project's design prior to approval of CWSRF financing.

For more information and to ensure that no modifications to Coastal Barrier Resources System have occurred, please visit: http://www.fws.gov/habitatconservation/coastal_barrier.html.

7. Farmland Protection Policy Act:

Projects involving impacts to farmland designated as prime and unique, local and statewide importance, or under a Williamson Act Contract, will require consultation with the United States Department of Agriculture, Natural Resources Conservation Service and/or California Department of Conservation. For more information on the Farmland Protection Policy Act go to http://www.nrcs.usda.gov/programs/fppa, and regarding the Williamson Act Contact go to http://www.consrv.ca.gov/dlrp/lca.

8. Floodplain Management – Executive Order 11988:

Each agency shall take action to reduce the risk of flood loss, to minimize the impact of floods on human safety, health and welfare, and to restore and preserve the natural and beneficial values served by floodplains in carrying out its responsibilities. Before taking an action, each agency shall determine whether the proposed action will occur in a designated floodplain. The generally established standard for risk is the flooding level that is expected to occur every 100 years. If an agency determines or proposes to, conduct, support, or allow an action to be located in a floodplain, the agency shall consider alternatives to avoid adverse effects and incompatible development in the floodplains.

For further information regarding Floodplain Management requirements, please consult the United States Department of Homeland Security, Federal Emergency Management Agency website at http://www.fema.gov, as well as the USEPA floodplain management Executive Order 11988 at http://www.epa.gov/owow/wetlands/regs/eo11988.html.

9. Migratory Bird Treaty Act (MBTA):

The MBTA restricts the killing, taking, collecting and selling or purchasing of native bird species or their parts, nests, or eggs. The MBTA, along with subsequent amendments to this act, provides legal protection for almost all breeding bird species occurring in the United States and must be addressed under CEQA. In the CEQA document, each agency must make a finding that a project will comply with the MBTA. For further information, please consult the Migratory Bird Program through the USFWS website at http://www.fws.gov/laws/lawsdigest/migtrea.html.

10. Protection of Wetlands – Executive Order 11990:

Projects, regardless of funding, must get approval for any temporary or permanent disturbance to federal and state waters, wetlands, and vernal pools. The permitting process through the United States Army Corps of Engineers (USACE) can be lengthy, and may ultimately require project alterations to avoid wetlands and waters of the United States. Applicants must consult with the USACE early in the planning process if any portion of the project site contains wetlands, or other federal waters. The USACE Wetland Delineation Manual is available at http://www.wetlands.com/regs/tlpge02e.htm. Also note that the California State Water Boards are involved in providing approvals through the Clean Water Act Section 401 Water Quality Certification Program and/or Waste Discharge Requirements. For more information, please go to http://www.waterboards.ca.gov/water_issues/programs/cwa401/index.shtml.

11. Wild and Scenic Rivers Act:

There are construction restrictions or prohibitions for projects near or in a designated "wild and scenic river." A listing of designated "wild and scenic rivers" can be obtained at http://www.rivers.gov/wildriverslist.html. Watershed information can be obtained through the "Watershed Browser" at http://cwp.resources.ca.gov/map_tools.php.

12. Safe Drinking Water Act, Source Water Protection:

Projects must comply with the Safe Drinking Water Act and document whether or not a project has the potential to contaminate a sole source aquifer. For projects impacting a listed sole source aquifer, the applicant must identify an alternative project location, or develop adequate mitigating measures in consultation with the USEPA. For more information, please go to the Sole Source Aquifer Program website at http://epa.gov/region09/water/groundwater/ssa.html.

13. Environmental Justice – Executive Order No. 12898:

Identify and address any disproportionately high and adverse human health or environmental effects of the project's activities on minority and low-income populations. USEPA has defined environmental justice as "the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies."

Fair Treatment means that no group of people should bear a disproportionate burden of environmental harms and risks, including those resulting from the negative consequences of industrial, governmental, and commercial operations or programs and policies.

Meaningful Involvement means that: 1) potentially affected community members have an appropriate opportunity to participate in decisions about a proposed activity that will affect their environment and/or health; 2) the public's contribution can influence the agency's decision; 3) the concerns of all participants involved will be considered in the decision-making process; and 4) the decision-makers seek out and facilitate the involvement of those potentially affected.

The term "environmental justice concern" is used to indicate the actual or potential lack of fair treatment or meaningful involvement of minority, low-income, or indigenous populations, or tribes in the development, implementation, and enforcement of environmental laws, regulations, and policies.

Your project may involve an "environmental justice concern" if the project could:

a) Create new disproportionate impacts on minority, low-income, or indigenous populations;
b) Exacerbate existing disproportionate impacts on minority, low-income, or indigenous populations; or
c) Present opportunities to address existing disproportionate impacts on minority, low-income, or indigenous populations that are addressable through the project.

Attachment 1

ENVIRONMENTAL[1] PACKAGE CHECKLIST
FOR APPLICANT
(What to Submit to Project Manager)

Required for all CWSRF Projects:

- ❑ **Evaluation Form for Environmental Review and Federal Coordination with the substantiating information** (i.e. USFWS species list/biological assessment, cultural resources documentation, air quality data, flood map etc.)
- ❑ **Project Report, Scope of Work and Map(s)**

Based on the type of CEQA documents prepared for the project, provide additional information as identified in the following boxes.

If project is covered under a **CEQA Categorical or Statutory Exemption**, submit a copy of the following:

- ❑ **Notice of Exemption** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If project is covered under a **Negative Declaration**, submit a copy of the following:

- ❑ **Draft and Final Initial Study/Negative Declaration (IS/ND)**
  - ❑ Comments and Responses to the Draft IS/ND
- ❑ **Resolution approving the CEQA documents**
  - ❑ Adopting the Negative Declaration
  - ❑ Making CEQA Findings
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If project is covered under a **Mitigated Negative Declaration**, submit a copy of the following:

- ❑ **Draft and Final Initial Study/Mitigated Negative Declaration (IS/MND)**
  - ❑ Comments and Responses to the Draft IS/MND
  - ❑ Mitigation Monitoring and Reporting Plan/Program (MMRP)
- ❑ **Resolution approving the CEQA documents**
  - ❑ Adopting the Mitigated Negative Declaration and the MMRP
  - ❑ Making CEQA Findings
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If project is covered under an **Environmental Impact Report (EIR)**, submit a copy of the following:

- ❑ **Draft and Final EIR**
  - ❑ Comments and Responses to the Draft EIR
  - ❑ Mitigation Monitoring and Reporting Plan/Program (MMRP)
- ❑ **Resolution approving the CEQA documents**
  - ❑ Certifying the EIR and adopting the MMRP
  - ❑ Making CEQA Findings
  - ❑ Adopting a Statement of Overriding Considerations for any adverse environmental impact(s), if applicable
- ❑ **Notice of Determination** (filed and date stamped by the county clerk and the Governor's Office of Planning and Research)

If EIR is a joint CEQA/National Environmental Policy Act document (EIR/Environmental Impact Statement or EIR/Environmental Assessment), submit the applicable Record of Decision and/or the Finding of No Significant Impact.

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[1] If the CEQA document is more than five years old applicant shall provide an updated CEQA document (eg. subsequent, supplemental, or addendum CEQA documents) or a letter that describes the current status of the environmental condition for the project's location.

State Water Resources Control Board (State Water Board)
Clean Water State Revolving Fund Program

Evaluation Form for Environmental Review and Federal Coordination

CWSRF No.: _____

Applicant Name: _____

Date: _____

Project Title: _____

1. **Federal Endangered Species Act (ESA), Section 7:**
Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may affect federally listed threatened or endangered species or their critical habitat that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

   a. **Required documents: Attach project-level biological surveys, evaluations analyzing the project's direct and indirect effects on special-status species, and an up-to-date species list (from the United States Fish and Wildlife Service and the California Natural Diversity Database) for the project area.**

☐ No. Discuss why the project will not impact any federally listed special status species:

_____

_____

_____

_____

_____

_____

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_____

☐ Yes. Provide information on federally listed species that could potentially be affected by this project and any proposed avoidance and compensation measures so that the State Water Board can initiate informal/formal consultation with the applicable federally designated agency. Document any previous ESA consultations that may have occurred for the project. Include any comments below:

_____

_____

_____

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_____

2. **<u>Magnuson-Stevens Fishery Conservation and Management Act, Essential Fish Habitat</u>: Does the project involve any direct effects from construction activities, or indirect effects such as growth inducement that may adversely affect essential fish habitat?**

☐ No. Discuss why the project will not impact essential fish habitat:

☐ Yes. Provide information on essential fish habitat that could potentially be affected by this project and any proposed avoidance and compensation measures. Document any consultations with the National Marine Fisheries Service that may have occurred for the project. Include any comments below:

3. **<u>National Historic Preservation Act, Section 106</u>: Identify the area of potential effects (APE), including construction, staging areas, and depth of any excavation. (Note: the APE is three dimensional and includes all areas that may be affected by the project, including the surface area and extending below ground to the depth of any project excavations).**

- **Required documents: Cultural Resources Assessment** prepared by a prepared by a qualified researcher that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm). **Current records search** with maps showing all sites and surveys drawn in relation to the project area, and records of **Native American consultation.** Include any comments below:

4. **Federal Clean Air Act:**

Identify Air Basin Name _____

Name of the Local Air District for Project Area: _____

Is the project subject to a State Implementation Plan (SIP) conformity determination?

☐ No. The project is in an attainment or unclassified area for all federal criteria pollutants.

☐ Yes. The project is in a nonattainment area or attainment area subject to maintenance plans for a federal criteria pollutant. Include information to indicate the nonattainment designation (e.g. moderate, serious, severe, or extreme), if applicable. If estimated emissions (below) are above the federal de minimis levels, but the project is sized to meet only the needs of current population projections that are used in the approved SIP for air quality, then quantitatively indicate how the proposed capacity increase was calculated using population projections.

- **If you checked "Yes" above, provide the estimated project construction and operational air emissions (in tons per year) in the chart below, and attach supporting calculations.**
- **Also, attach any air quality studies that may have been done for the project.**

Pollutant	Federal Status (Attainment, Nonattainment, Maintenance, or Unclassified)	Nonattainment Rates (i.e., moderate, serious, severe, or extreme)	Threshold of Significance for Project Air Basin (if applicable)	Construction Emissions (Tons/Year)	Operation Emissions (Tons/Year)
Ozone (O_3)					
Carbon Monoxide (CO)					
Oxides of Nitrogen (NO_x)					
Reactive Organic Gases (ROG)					
Volatile Organic Compounds (VOC)					
Lead (Pb)					
Particulate Matter less than 2.5 microns in diameter ($PM_{2.5}$)					
Particulate Matter less than 10 microns in diameter (PM_{10})					
Sulfur Dioxide (SO_2)					

5. **Coastal Zone Management Act:**

Is any portion of the project site located within the coastal zone?

☐ No. The project is not within the coastal zone.

☐ Yes. Describe the project location with respect to coastal areas and the status of the coastal zone permit, and provide a copy of the coastal zone permit or coastal exemption:

_____

_____

_____

_____

_____

_____

6. **Coastal Barriers Resources Act:**
Will the project impact or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters? Note that since there is currently no Coastal Barrier Resources System in California, projects located in California are not expected to impact the Coastal Barrier Resources System in other states. If there is a special circumstance in which the project may impact a Coastal Barrier Resource System, indicate your reasoning below.

☐ No. The project will not impact or be located within or near the Coastal Barrier Resources System or its adjacent wetlands, marshes, estuaries, inlets, and near-shore waters.

☐ Yes. Describe the project location with respect to the Coastal Barrier Resources System, and the status of any consultation with the appropriate Coastal Zone management agency and the United States Fish and Wildlife Service:

_____

_____

_____

_____

7. **Farmland Protection Policy Act:**
Is any portion of the project located on important farmland?

☐ No. The project will not impact farmland.

☐ Yes. Include information on the acreage that would be converted from important farmland to other uses. Indicate if any portion of the project boundaries is under a Williamson Act Contract and specify the amount of acreage affected:

_____

_____

_____

_____

_____

8. **Flood Plain Management:**
Is any portion of the project located within a 100-year floodplain as depicted on a floodplain map or otherwise designated by the Federal Emergency Management Agency?

- **Required documents: Attach a floodplain map.**

☐ No. Provide a description of the project location with respect to streams and potential floodplains:

_____

☐ Yes. Describe the floodplain, and include a floodplains/wetlands assessment. Describe any measures and/or project design modifications that would be implemented to minimize or avoid project impacts:

_____

_____

_____

_____

9. **Migratory Bird Treaty Act:**
Will the project affect protected migratory birds that are known, or have a potential, to occur on-site, in the surrounding area, or in the service area?

☐ No. Provide an explanation below.

_____

_____

_____

_____

☐ Yes. Discuss the impacts (such as noise and vibration impacts, modification of habitat) to migratory birds that may be directly or indirectly affected by the project and mitigation measures to reduce or eliminate these impacts. Include a list of all migratory birds that could occur where the project is located:

_____

_____

_____

_____

10. **Protection of Wetlands:**
Does any portion of the project boundaries contain areas that should be evaluated for wetland delineation or require a permit from the United States Army Corps of Engineers?

☐ No. Provide the basis for such a determination:

_____

_____

_____

_____

☐ Yes. Describe the impacts to wetlands, potential wetland areas, and other surface waters, and the avoidance, minimization, and mitigation measures to reduce such impacts. Provide the status of the permit and information on permit requirements:

_____

_____

_____

_____

11. **Wild and Scenic Rivers Act:**
Identify watershed where the project is located: _____

Is any portion of the project located within a wild and scenic river?

☐ No. The project is not located near a wild and scenic river.

☐ Yes. Identify the wild and scenic river watershed and project location relative to the affected wild and scenic river:

_____

_____

_____

_____

12. **Safe Drinking Water Act, Sole Source Aquifer Protection:**
Is the project located in an area designated by the United States Environmental Protection Agency, Region 9, as a Sole Source Aquifer?

☐ No. The project is not within the boundaries of a sole source aquifer.

☐ Yes. Contact USEPA, Region 9 staff to consult, and identify the sole source aquifer (e.g., Santa Margarita Aquifer, Scott's Valley, the Fresno County Aquifer, the Campo/Cottonwood Creek Aquifer or the Ocotillo-Coyote Wells Aquifer) that will be impacted:

_____

_____

13. **Environmental Justice:**
Does the project involve an activity that is likely to be of particular interest to or have particular impact upon minority, low-income, or indigenous populations, or tribes?

☐ No. Selecting "No" means that this action is not likely to be of any particular interest to or have an impact on these populations or tribes. Explain.

_____

_____

_____

_____

_____

☐ Yes. If you answer yes, please check at least one of the boxes and provide a brief explanation below:

☐ The project is likely to impact the health of these populations.

☐ The project is likely to impact the environmental conditions of these populations.

☐ The project is likely to present an opportunity to address an existing disproportionate impact of these populations.

☐ The project is likely to result in the collection of information or data that could be used to assess potential impacts on the health or environmental conditions of these populations.

☐ The project is likely to affect the availability of information to these populations.

☐ Other reasons, describe: _____

_____

_____

_____

_____

_____

_____

BASIC CRITERIA FOR CULTURAL RESOURCES REPORTS

FOR SECTION 106 CONSULTATION WITH THE STATE HISTORIC PRESERVATION OFFICER (SHPO) UNDER THE NATIONAL HISTORIC PRESERVATION ACT (NHPA)

CULTURAL RESOURCES REPORTS

The Section 106 compliance efforts and reports must be prepared by a qualified researcher that meets the Secretary of the Interior's Professional Qualifications Standards (www.cr.nps.gov/local-law/arch_stnds_9.htm).

REPORT TERMINOLOGY

- A cultural resources report used for Section 106 consultation should use terminology consistent with the NHPA.

- This doesn't mean that the report needs to "filled" with passages and interpretations of the regulations, the SHPO reviewer already knows the law.

- If "findings" are made they must be one of the four "findings" listed in Section 106. These include:

  "No historic properties affected" (no properties are within the APE, including the below ground APE).

  "No effect to historic properties" (properties may be near the APE but the project will not impact them).

  "No adverse effect to historic properties" (the project may affect historic properties but the impacts will not be adverse)

  "Adverse effect to historic properties". *Note: the SHPO must be consulted at this point. If your consultant proceeds on his own, his efforts may be wasted.*

CURRENT RECORDS SEARCH INFORMATION

- A current (less than a year old) records search from the appropriate Information Center is necessary. The records search should include maps that show all recorded sites and surveys in relation to the area of potential effects (APE) for the project.

- The APE is three-dimensional and includes all areas that may be affected by the project. It includes the surface area and extends below ground to the depth of any project excavations.

- The records search request should be made for an area larger than the APE. The appropriate area varies for different projects but should be drawn large enough to provide information on what types of sites may exist in the vicinity.

NATIVE AMERICAN AND INTERESTED PARTY CONSULTATION

- Native American and interested party consultation should be initiated at the beginning of any cultural resource investigations. The purpose is to gather information from people with local knowledge that may be used to guide research.

- A project description and map should be sent to the Native American Heritage Commission (NAHC) requesting a check of their Sacred Lands Files. The Sacred Lands Files include religious and cultural places that are not recorded at the information centers.

- The NAHC will include a list of Native American groups and individuals with their response. A project description and maps should be sent to everyone on the list asking for information on the project area.

- Similar letters should be sent to local historical organizations.

- Follow-up contact should be made by phone if possible and a phone log should be included in the report.

WARNING PHRASES IN ALREADY PREPARED CEQA REPORTS

- A finding of **"no known resources"**, this doesn't mean anything. The consultant's job is to find out if there are resources within the APE or to explain why they are not present.

- **"The area is sensitive for buried archaeological resources",** followed by a statement that **"monitoring is recommended as mitigation".** Monitoring is not an acceptable mitigation. A reasonable effort should be made to find out if buried resources are present in the APE.

- **"The area is already disturbed by previous construction",** this may be true, but documentation is still needed to show that the new project will not affect cultural resources. As an example, an existing road can be protecting a buried archaeological site. Or, previous construction may have impacted an archaeological site that was never documented.

- No mention of **"Section 106"**, a report that gives adequate information for CEQA may not be sufficient to comply with Section 106.

21 June 2012

Bruce Burnworth
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

CERTIFIED MAIL
7011 2970 0003 8939 2856

COMMENTS TO THE NOTICE OF PREPARATION FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, MID-WESTERN PLACER REGIONAL SEWER PROJECT, SCH NO. 2012052083, PLACER COUNTY

Pursuant to the State Clearinghouse's 31 May 2012 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Notice of Preparation for the Draft Environmental Impact Report* for the Mid-Western Placer Regional Sewer Project, located in Placer County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits[1]

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/.

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 97-03-DWQ.

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements.

If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACOE permit, or any other federal permit, is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications.

[1] Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Waste Discharge Requirements

If USACOE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project will require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation.

For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/help/business_help/permit2.shtml.

If you have questions regarding these comments, please contact me at (916) 464-4745 or gsparks@waterboards.ca.gov.



Genevieve (Gen) Sparks
Environmental Scientist
401 Water Quality Certification Program

cc: State Clearinghouse Unit, Governor's Office of Planning and Research, Sacramento

Placer County
AIR POLLUTION CONTROL DISTRICT

110 Maple Street, Auburn, CA 95603 • (530) 745-2330 • Fax (530) 745-2373 • www.placer.ca.gov/apcd

Thomas J. Christofk, Air Pollution Control Officer

July 2, 2012

SENT VIA: bburnworth@ci.lincoln.ca.us

Bruce Burnworth, PE, City Engineer
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

SUBJECT: Mid-Western Placer Regional Sewer Project

Dear Mr. Burnworth;

Thank you for submitting the **Mid-Western Placer Regional Sewer** (Project) and Notice of Preparation (NOP) for the preparation of a Draft Environmental Impact Report (DEIR) to the Placer County Air Pollution Control District (District) for review. The project site is located within the Sacramento Valley Air Basin (SVAB) and is under the jurisdiction of the Placer County District. The SVAB is designated as nonattainment for federal and state ozone (O_3) standards, nonattainment for the federal particulate matter standard ($PM_{2.5}$) and state particulate matter standard (PM_{10}). The District has the following comments for the City's consideration.

1. The District recommends the following thresholds of significance when analyzing construction related impacts to determine the Project's potential to have an impact on air quality (82 pounds per day for nitrogen oxide (NOx), reactive organic gas (ROG) and particulate matter emissions (PM_{10}) and 550 pounds per day for carbon monoxide (CO) emissions). The District currently does not have an established threshold for construction related GHG emissions. However, a determination of significance should be disclosed and based on the Project's potential to interfere with GHG reduction goals established by regulatory requirements (or environment). Mitigation measures should be included to reduce potentially significant levels of criteria pollutants, including GHG emissions. The District recommends the attached mitigation measures (Attachment 2) in order to reduce construction related impacts to the maximum extent feasible, if determined necessary.

   To further reduce construction related air quality impacts, the District recommends the incorporation of the District's Rules and Regulations (Attachment 1) to be listed on all grading and/or improvement plans associated with the construction of the Project to ensure that construction crew in the field are aware of District requirements.

2. The District recommends the following Project-level Thresholds of Significance when analyzing operational related impacts (82 pounds per day for nitrogen oxide (NOx), reactive organic gas (ROG) and particulate matter emissions (PM_{10}) and 550 pounds per day for carbon monoxide (CO) emissions) to determine project level impacts on air quality. As previously stated, the District currently does not have an established threshold for operational related GHG emissions. However, a determination of significance should be disclosed and based on the Project's potential to interfere with GHG reduction goals established by regulatory requirements (or environment).

3. If existing or future sensitive receptors are located within close proximity to the Project areas, where there is the potential for exposure to toxic air contaminants (TAC) and other hazardous air pollutants (e.g., such as diesel particulate matter (DPM) from diesel exhaust), the District recommends the environmental document describe the level of analysis, such as a Health Risk Assessment (HRA) or other modeling analysis, necessary to determine if the Project will have the potential to cause adverse health impacts. For guidance

on assessing health risk impacts, the District recommends CAPCOA's HRA guidance document which outlines recommended procedures to identify when a project should undergo further risk evaluation[1]. The District recommends the lead agency consult with the District prior to conducting a health impact analysis for the Project.

4. The analysis for the expansion of the Lincoln Wastewater Treatment and Reclamation Facility should describe the existing capacity limits of the plant and analyze any additional throughput would exceed the air quality emission limits for the Permit to Operate issued by the District.

5. The Project proposes the decommissioning of the SMD-1 Wastewater Treatment Plant and the partial decommissioning of the Auburn Wastewater Treatment Plant. Both of these plants are operating under permits issued by the District. Modifications to the District's Permit to Operate will be required. The District requests the incorporation of a condition of approval to ensure compliance with District requirements.

6. It is not clear from the project description if any pump stations are proposed. Pump stations typically include usage of backup generators subject to District permitting. Any project that includes the use of equipment capable of releasing emissions to the atmosphere may require permits(s) from the District prior to construction. The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact the District early to determine if a permit is required, and to begin the permit application process. Portable construction equipment (e.g. generators, compressors, pile drivers, lighting equipment, etc) with an internal combustion engine over 50 horsepower are required to have a PCAPCD permit or a California Air Resources Board portable equipment registration. The District recommends the incorporation of the following condition of approval for this Project.

   Processes that discharge 2 pounds per day or more of air contaminants, as defined by Health and Safety Code Section 39013, to the atmosphere may require a permit. **Permits are required for both construction and operation.** Developers/contractors should contact the District prior to construction and obtain any necessary permits prior to the issuance of a Building Permit. ***(Based on the California Health & Safety Code section 39013:*** http://www.leginfo.ca.gov/cgi-bin/displaycode?section=hsc&group=39001-40000&file=39010-39060

Thank you for allowing the District this opportunity to review the project proposal. Please do not hesitate to contact me at 530.745.2333 or agreen@placer.ca.gov if you have any questions.

Sincerely,

Angel Green
Associate Planner

Attachments: 1. Master Mitigation List
2. District and State Rule Based Requirements –To be listed on Improvement Plans

ec: Yushuo Chang, Planning & Monitoring Section Supervisor
Maywan Krach, Placer County Environmental Review Coordination

1 Available via the web at www.capcoa.org

ATTACHMENT 1
District and State Rule Based Requirements
Improvement Plans

R1. Construction equipment exhaust emissions shall not exceed Placer County APCD Rule 202 Visible Emission limitations. Operators of vehicles and equipment found to exceed opacity limits are to be immediately notified by APCD to cease operations and the equipment must be repaired within 72 hours.*(**Based on APCD Rule 202**)*

R2. The contractor shall suspend all grading operations when fugitive dust exceeds Placer County APCD Rule 228 (Fugitive Dust) limitations. The prime contractor shall be responsible for having an individual who is CARB-certified to perform Visible Emissions Evaluations (VEE). This individual shall evaluate compliance with Rule 228 on a weekly basis. It is to be noted that fugitive dust is not to exceed 40% opacity and not go beyond the property boundary at any time. Lime or other drying agents utilized to dry out wet grading areas shall not exceed Placer County APCD Rule 228 Fugitive Dust limitations. Operators of vehicles and equipment found to exceed opacity limits will be notified by APCD and the equipment must be repaired within 72 hours. *(**Based on APCD Rule 228**)*

R3. The prime contractor shall be responsible for keeping adjacent public thoroughfares clean of silt, dirt, mud, and debris, and shall "wet broom" the streets (or use another method to control dust as approved by the individual jurisdiction) if silt, dirt, mud or debris is carried over to adjacent public thoroughfares. *(**Based on APCD Rule 228 / section 401.5**)*

R4. During construction, traffic speeds on all unpaved surfaces shall be limited to 15 miles per hour or less. *(**Based on APCD Rule 228 / section 401.2**)*

R5. In order to minimize wind driven dust during construction, the prime contractor shall apply methods such as surface stabilization, establishment of a vegetative cover, paving, (or use another method to control dust as approved by the individual jurisdiction).

R6. The prime contractor shall suspend all grading operations when wind speeds (including instantaneous gusts) are excessive and dust is impacting adjacent properties. *(**Based on APCD Rule 228 / section 402**)*

R7. The contractor shall apply water or use other method to control dust impacts offsite. Construction vehicles leaving the site shall be cleaned to prevent dust, silt, mud, and dirt from being released or tracked off-site. *(**Based on APCD Rule 228 / section 401.1, 401.4**)*

R8. During construction, no open burning of removed vegetation shall be allowed unless permitted by the PCAPCD. All removed vegetative material shall be either chipped on site or taken to an appropriate recycling site, or if a site is not available, a licensed disposal site. *(**Based on APCD Rule 310**)*

R9. Processes that discharge 2 pounds per day or more of air contaminants, as defined by Health and Safety Code Section 39013, to the atmosphere may require a permit. Developers/contractors should contact the District prior to construction or use of equipment and obtain any necessary permits.

ATTACHMENT 2
Placer County Air Pollution Control District
Recommended Mitigation Measures (Construction)

1. 1a. Prior to approval of Grading or Improvement Plans, (whichever occurs first), on project sites greater than one acre, the applicant shall submit a Construction Emission / Dust Control Plan to the Placer County Air Pollution Control District. If the District does not respond within twenty (20) days of the plan being accepted as complete, the plan shall be considered approved. The applicant shall provide written evidence, provided by the District, to the local jurisdiction (city or county) that the plan has been submitted to the District. It is the responsibility of the applicant to deliver the approved plan to the local jurisdiction. The applicant shall not break ground prior to receiving District approval, of the Construction Emission / Dust Control Plan, and delivering that approval to the local jurisdiction issuing the permit.

   1b. Include the following standard note on the Grading Plan or Improvement Plans: The prime contractor shall submit to the District a comprehensive inventory (e.g., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower of greater) that will be used in aggregate of 40 or more hours for the construction project. If any new equipment is added after submission of the inventory, the prime contractor shall contact the District prior to the new equipment being utilized. At least three business days prior to the use of subject heavy-duty off-road equipment, the project representative shall provide the District with the anticipated construction timeline including start date, name, and phone number of the property owner, project manager, and on-site foreman.

   1c. Prior to approval of Grading or Improvement Plans, whichever occurs first, the applicant shall provide a written calculation to the District for approval demonstrating that the heavy-duty (> 50 horsepower) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project wide fleet-average of 20% of NO_x and 45% of DPM reduction as compared to CARB statewide fleet average emissions. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. The following link shall be used to calculate compliance with this condition and shall be submitted to the District as described above: http://www.airquality.org/ceqa/ (click on the current "Roadway Construction Emissions Model").

2. Include the following standard note on the Improvement/Grading Plan: During construction the contractor shall utilize existing power sources (e.g., power poles) or clean fuel (e.g., gasoline, biodiesel, natural gas) generators to minimize the use of temporary diesel power generators.

3. Include the following standard note on the Improvement/Grading Plan: During construction, the contractor shall minimize idling time to a maximum of 5 minutes for all diesel powered equipment.

4. Prior to the approval of grading or improvement plans, the applicant shall retain a qualified geologist or geotechnical engineer to conduct additional geologic evaluations of the project site to determine the presence or absence of naturally-occurring asbestos onsite. These evaluations shall include the project site and each offsite parcel where infrastructure construction or installation would occur. These evaluations shall be completed and submitted to the District prior to issuance of any grading and/or improvement plans.

5. If naturally-occurring asbestos is located onsite, the following measures shall be implemented prior to the approval of a grading/improvement plans:

   A. The applicant shall prepare an Asbestos Dust Mitigation Plan pursuant to CCR Title 17 Section 93105 ("Asbestos Airborne Toxic Control Measures for Construction, Grading, Quarrying, and Surface Mining Operations") and obtain approval by the Placer County APCD. The Plan shall include all measures required by the State of California and the Placer County APCD.

   B. If asbestos is found in concentrations greater than 5 percent, the material shall not be used as surfacing material as stated in state regulation CCR Title 17 Section 93106 ("Asbestos Airborne Toxic Control Measure-Asbestos Containing Serpentine"). The material with naturally-occurring asbestos can be reused at the site for subgrade material covered by other non-asbestos-containing material

   C. Each subsequent individual lot developer shall prepare an Asbestos Dust Mitigation Plan when the construction area is equal to or greater than one acre.

   D. The project developer and each subsequent lot seller must disclose the presence of this environmental hazard during any subsequent real estate transaction processes. The disclosure must include a copy of the CARB pamphlet entitled "Asbestos-Containing Rock and Soil –What California Homeowners and Renters Need to Know," or other similar fact sheet. (pdf)

City of Lincoln

Notice of Preparation of a Draft Environmental Impact Report

Date: May 29, 2012

Project Title: Mid-Western Placer Regional Sewer Project

To: Responsible Agencies, Organizations, and Interested Parties

Lead Agency:
City of Lincoln
600 Sixth Street
Lincoln, CA 95648
(916) 434-2400

Contact: Bruce Burnworth, PE, City Engineer, City of Lincoln

The City of Lincoln is the lead agency for the proposed Mid-Western Placer Regional Sewer Project (Project) and intends to prepare an Environmental Impact Report (EIR) for the proposed Project. The City of Lincoln has prepared this Notice of Preparation (NOP) to notify responsible agencies, trustee agencies, and other interested parties that a Draft EIR is being prepared.

The City of Lincoln welcomes public input during this review period both on the environmental issues that the Draft EIR should address and on the range of alternatives that the Draft EIR should evaluate. Written comments or questions concerning the scope of the Draft EIR for the proposed Project should be directed to the following address by **5:00 PM on June 31, 2012**:

Bruce Burnworth, PE, City Engineer
City of Lincoln
600 Sixth Street
Lincoln, CA 95648
Phone: (916) 434-2400
E-mail: bburnworth@ci.lincoln.ca.us

Please include the name, email address, phone number, and mailing address of the contact person submitting the written response. In the event no response or request for additional time is received by any responsible agency or trustee agency by the end of June 31, 2012, the City of Lincoln may presume that the responsible agency or trustee agency has no response.

Public Scoping Meeting: A public scoping meeting will be held to receive comments on environmental issues that should be addressed in the Draft EIR as well as the range of practicable alternatives to be evaluated in the Draft EIR. The address, date, and time of this meeting are as follows:

Date: Wednesday, June 20, 2012
Time: 6:00 – 9:00 p.m.
Place: Placer County Community Development Resource Center
3091 County Center Drive
Auburn, CA 95603

Project Description

The proposed Mid-Western Placer Regional Sewer Project (Project) is a regional wastewater system serving the City of Auburn, the Placer County Sewer Maintenance District No. 1 (SMD-1) service area, and the City of Lincoln. The purpose of the Project is to create a wastewater system that complies with current state and federal regulations, removes wastewater effluent from perennial foothill stream stretches (spawning and rearing habitat for salmon and steelhead), improves opportunities for beneficial uses of reclaimed water, and provides economies of scale associated with operations and future regulatory compliance. The Project would consolidate wastewater treatment within western Placer County by decommissioning the SMD-1 wastewater treatment plant (SMD-1 WWTP) and the Auburn wastewater treatment plant (Auburn WWTP), and expanding the existing Lincoln wastewater treatment and reclamation facility (Lincoln WWTRF) to accommodate the wastewater currently treated at SMD-1 WWTP and Auburn WWTP. The Project additionally includes the construction of pipelines from SMD-1 WWTP and the Auburn WWTP to the expanded Lincoln WWTRF.

Currently, wastewater in western Placer County is treated at SMD-1 WWTP (located in northern Auburn; owned and operated by Placer County), the Auburn WWTP, and Lincoln WWTRF (**Figure 1**). The Central Valley Regional Water Quality Control Board (CVRWQCB) encourages these three existing wastewater treatment facilities to consolidate into the Lincoln WWTRF (Res. No. R5-2009-0028) primarily because they believe that one larger treatment plant can more cost effectively meet future regulatory requirements. The Lincoln WWTRF is designed to produce disinfected tertiary water, as defined by Title 22 for unrestricted reuse, and thus currently complies with federal and state wastewater discharge requirements. SMD-1 WWTP is in need of replacement and the Auburn WWTP anticipates substantial upgrade costs in the future to increase redundancy (reduce risks) and comply with regulatory requirements in subsequent permit cycles.

The Auburn WWTP currently produces approximately 1.2 million gallons per day (Mgal/d) on an average dry weather flow basis, the SMD-1 WWTP produces 1.7 Mgal/d,

and the Lincoln WWTRF produces 2.8 Mgal/d. The proposed Project would expand the current Lincoln WWTRF by 2.9 Mgal/d to treat the combined existing flows currently treated at Auburn WWTP, SMD-1 WWTP, and Lincoln WWTRF (5.7 Mgal/d). The proposed Project would include pipeline sizing to serve the adopted General Plan for the City of Auburn and the adopted Auburn/Bowman Community Plan for the County of Placer. The new pump stations and the Lincoln WWTRF would be sized to meet the current loads within the three service areas. The proposed Project would not increase permitted discharge limits above the current combined permitted discharge limits for all three wastewater treatment facilities, nor would it accommodate growth above the capacity of the land use designations of the above adopted plans.

The proposed Project is anticipated to take up to three years to construct with the possible elimination of the current SMD-1 WWTP discharge to Rock Creek by the second year of construction.

Decommissioning of SMD-1 Wastewater Treatment Plant: The SMD-1 WWTP is in need of replacement because it contains aged facilities. The proposed Project includes a new pump station and new pipeline to receive and convey wastewater currently being treated at SMD-1 WWTP to the expanded Lincoln WWTRF (**Figure 2a**). The Project would retain some of the existing SMD-1 basins to provide emergency containment volume. Remaining facilities would be demolished or appropriately secured. Some additional containment volume would also be constructed with an earthen basin on the SMD-1 site. Both forms of containment volume would be included as part of a sewer collection system contingency plan incorporated into the Sewer System Management Plan (SSMP) required by the CVRWQCB.

Partial Decommissioning of Auburn Wastewater Treatment Plant: The Auburn WWTP anticipates substantial upgrade costs in the future (increased redundancy to reduce risks and provide additional capacity) and additional compliance costs in subsequent permit cycles.

Because the Auburn WWTP treatment facilities are in good condition, it is desirable to continue using some of the facilities to allow phasing of the cost to convey and treat wastewater regionally over time. The proposed Project includes retaining the Auburn WWTP secondary treatment facilities to provide pre-treatment and utilize the existing storage basins for flow equalization. The tertiary filtration and disinfection facilities would be taken off-line and either decommissioned or maintained to allow resumption of releases to the creek if necessary. Secondary effluent would be conveyed to the Lincoln WWTRF where it would receive tertiary treatment and be disposed of with the Lincoln and SMD-1 wastewater effluent (**Figure 2b**). The new pump station required to pump wastewater effluent from the existing Auburn WWTP to the Lincoln WWTRF would be

similar to the one that is proposed for the SMD-1 WWTP. The Lincoln WWTRF would be expanded hydraulically to accommodate the Auburn WWTP secondary effluent.

Construction of Proposed Pipelines: The proposed Project includes pipelines to carry wastewater from the current SMD-1 WWTP and Auburn WWTP to the expanded Lincoln WWTRF. The proposed pipelines would be located predominantly within public roads between the SMD-1 WWTP and the Lincoln WWTRF and the Auburn WWTP and the Lincoln WWTRF. The pipelines would include a force main without the possibility of additional sewer connections between the SMD-1 WWTP and Auburn WWTP pump stations and the existing influent sewer lines running from Sierra College Boulevard to the Lincoln WWTRF. The pipeline would operate as a force main under pressure as opposed to a gravity pipe which could accommodate future connections. Agreements between the participating agencies would preclude future connections between these points.

The force main would cross rural residential areas where the zoning is “Farm (F)” with lot sizes ranging between 4.6 acre and 10 acres and with no municipal wastewater services. The pipelines from the SMD-1 WWTP and Auburn WWTP would join and run along Chili Hill Road, Gold Hill Road and Virginiatown Road as shown in **Figure 2c** as a single force main which would discharge to a gravity sewer in Highway 193 at Sierra College Boulevard. The gravity sewer west of Sierra College Boulevard already exists except for a short stretch along Highway 193, which would be constructed as part of the Project. Pipeline crossings of Auburn and Doty Ravines would utilize trenchless technologies or bridges so there would be no open trenching through these perennial streams.

Expansion of Lincoln WWTRF: The existing Lincoln WWTRF includes 90 million gallons of emergency storage, 180 million gallons of maturation ponds for priority pollutant and emerging contaminant removal, and 180 million gallons of tertiary storage. Additional treatment capacity will be constructed at the existing Lincoln WWTRF to accommodate the addition of the SMD-1 WWTP and Auburn WWTP wastewater. The treatment strategies that are currently in use at the Lincoln WWTRF would be expanded in kind to provide treatment capacity for the additional wastewater. Disposal of the additional effluent would rely on the existing disposal strategy, which includes storage, reclamation through irrigation to agricultural land, effluent discharge to Auburn Ravine, and reclamation via other uses. Additional agricultural land in the vicinity of the WWTRF would receive and use effluent for irrigation as part of the Project (**Figure 2d**). A new force main, extending from an existing force main within Fiddyment Road would be required to deliver the wastewater effluent to agricultural land located west of Lincoln. This proposed new force main pipeline is shown in **Figure 2d** on East Catlett Road. Improvements at the agricultural land disposal site(s) would be in

accordance with the Lincoln Master Reclamation Permit (Order No. R5-2005-0040 and subsequent revisions) issued by the CVRWQCB and California Department of Public Health (DPH) Title 22 requirements for reuse, including run-off containment and monitoring. The effluent disposal strategy includes discharges to Auburn Ravine and reclamation.

Project Alternatives: The Project alternatives will be evaluated in the Draft EIR in a Project Alternatives Analysis section. An Alternatives Analysis and Cumulative Impacts Analysis are required as part of CEQA and will be included in the Draft EIR. The No Project alternative would maintain the current level of treatment at all three wastewater facilities. Proposed project alternatives to be evaluated within the Project Alternatives Analysis within the Draft EIR include, but are not limited to the following (see **Figure 1**):

Alternatives to the Project

1. No Project – maintain the current level of treatment and waste discharge at all three wastewater facilities
2. Stand Alone Upgrades – each of the three wastewater facilities would make independent decisions to meet their wastewater needs and regulatory permitting requirements, including upgrades to the SMD-1 WWTP to meet their permit requirements

Alternatives of the Project

1. Alternative pipeline routes for the SMD-1, Auburn, and Common pipe alignments that would connect to the Lincoln WWTRF
2. Alternative methods to address flow regime requirements in Rock Creek and Auburn Ravine
3. Alternative land disposal sites and application methods associated with the upgraded Lincoln WWTRF

Potential Environmental Effects

The SMD-1 WWTP currently discharges wastewater effluent to Rock Creek, which is a tributary to Coon Creek. The Project would cease current discharges to Rock Creek. The Draft EIR will assess possible impacts to the creeks downstream of the SMD-1 Rock Creek discharge location. Mitigation measures will be developed and presented in the Draft EIR.

Currently, Auburn Ravine receives wastewater discharges from Auburn's WWTP. This discharge to Auburn Ravine would cease. The impacts of ceasing the discharge of

wastewater effluent within Auburn Ravine will be assessed within the Draft EIR. Mitigation measures will be developed and presented in the Draft EIR.

In addition, the Project may result in potentially significant effects to the following environmental issue areas, which will be evaluated in detail in the Draft EIR:

- Air Quality
- Biological Resources
- Cultural Resources
- Hazards and Risk of Upset
- Transportation and Circulation
- Water Quality and Hydrology
- Noise

The Draft EIR will evaluate impacts in these areas and other issues of potential environmental importance. Mitigation measures will be presented as applicable in the Draft EIR along with a Mandatory Findings of Significance section.

Exhibits Attached:

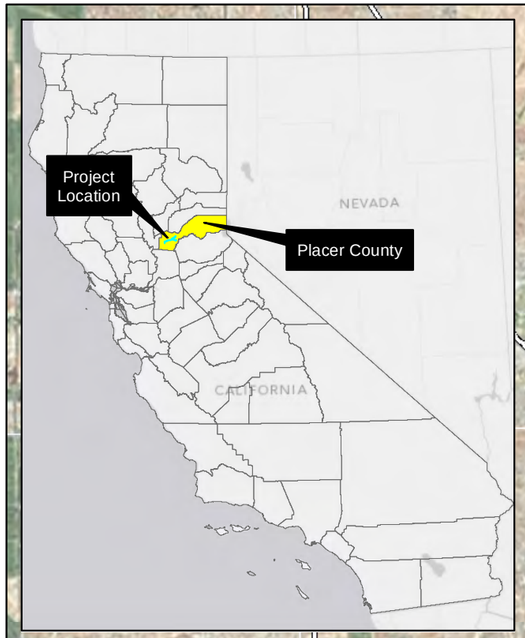
Figure 1 – Project Location

Figure 2a – SMD-1 Regional Pipe

Figure 2b – Auburn Regional Pipe

Figure 2c – Common Regional Pipe

Figure 2d – Effluent Disposal Pipes



SMD1 WWTP NEW PUMP STATION

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

Approximate Highway 65 Bypass Alignment

BICKFORD PIPE

EXISTING SEWER

FORCE MAIN / GRAVITY TRANSITION STRUCTURE ENERGY DISSIPATION AND ODOR CONTROL

AUBURN WWTP NEW PUMP STATION

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

GLADDING RD
McCOURTNEY RD
CROSBY HEROLD RD
GARDEN BAR RD
GARDEN BAR RD
MT PLEASANT RD
DRY CREEK RD
HIGHWAY 49
JOEGER RD
BELL RD
49
ATWOOD RD
BAXTER GRADE RD
MT VERNON RD
BALD HILL RD
WISE RD
65
FRUITVALE RD
CHILI HILL RD
FOWLER RD
VIRGINIATOWN RD
LOZANOS RD
OPHIR RD
DOWD RD
NICOLAUS RD
193
MOORE RD
FIDDYMENT RD
EAST CATLETT RD
ATHENS AV
INDUSTRIAL AV
65
TWELVE BRIDGES DR
ENGLISH COLONY WY
TAYLOR RD
NEWCASTLE RD
SIERRA COLLEGE BL
AUBURN FOLSOM RD
KING RD

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

N

0 2 Miles

Stantec

1 inch = 5,669 feet

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipe
Wastewater Treament Facility

SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 3,000 6,000 Feet
1 inch = 2,613 feet

Stantec

N

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

Common Pipeline Route Refer to Figure 2c

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

- Alternative SMD1 Alignment
- Preferred SMD1 Alignment
- Alternative Auburn Alignment
- Preferred Auburn Alignment
- Alternative Common/Fowler Alignment
- Preferred Common/Fowler Alignment
- Effluent Pipe, Reclaimed (Existing)
- Effluent Pipe, Reclaimed (Proposed)
- Lincoln Bickford Pipeline
- Wastewater Treament Facility
- Lincoln Existing Sewer Pipeline

N

0 3,000 Feet

Stantec

1 inch = 1,495 feet

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipeline
Wastewater Treament Facility

SMD1 Pipeline Route
Refer to Figure 2a

Auburn Pipeline Route
Refer to Figure 2b

PIPE JUNCTION

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING SEWER

BICKFORD PIPE

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FOWLER RD
VIRGINIATOWN RD
CHILI HILL RD
SCHINDLER RD
FRUITVALE RD
WINDOW LN
QUAIL RD
OAK KNOLL LN
ASHLEY LN
OAKHURST DR
MELODY LN
MONUMENT PL
VIRGINIA LN
ROSEWOOD RD
BRIDGE LN
TOPPER LN
CHAPARRAL LN
SHADY OAKS LN
GOLD HILL RD
GOLD CREST CT
RIDGE RD (NG)
WELCOME RD
RURAL LN
SYCAMORE HILL RD
RIDGE VIEW LN
RAINBOW VALLEY RD
FROG POND RD
MANDARIN HILL RD
MANDARIN HILL CT
ROLLING HILLS LN
OAK VIEW RD
COLUMBIA DAM RD
WHITTINGTON DR
RAVINE CT
DUTCH CT
HIGHWAY 193
193
GRAPEVINE RAVINE LN
COUNTRY LN
DEL MONTE LN
LYLES LN
POTTY HILL RD
CLARK TUNNEL RD
SIERRA COLLEGE BL
SAGE LN
STARDUST LN
HEATHER DR
PENNY LN
INDIAN OAKS DR
STAGECOACH LN
COYOTE LN
MINI RANCH RD
SEGO LN
RUSTIC LN
IRONWOOD LN
DANIELS DR
HARDSCRABBLE

0 3,000 Feet
1 inch = 1,508 feet
Stantec

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipe
Preferred Potential Effluent Recycling Area
Alternate Potential Effluent Recycling Area
Wastewater Treament Facility

MOORE RD
DOWD RD
FIDDYMENT RD
EAST CATLETT RD
SUNSET BLVD WEST
ATHENS AV

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

N

0 Stantec 4,000 Feet

1 inch = 1,881 feet

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

Foothills Water Network- California Sportfishing Protection Alliance – Trout Unlimited-Save Auburn Ravine Salmon and Steelhead-Ophir Property Owners Association-Auburn Ravine Preservation Committee-Sierra Club (Mother Lode Chapter)

June 29, 2012

VIA ELECTRONIC AND FIRST CLASS MAIL

Mr. Bruce Burnworth, City Engineer
City of Lincoln
600 Sixth Street
Lincoln, CA 95648
bburnworth@ci.lincoln.ca.us

Re: Notice of Preparation of Draft Environmental Impact Report for the Mid-Western Placer Regional Sewer Project

The Foothills Water Network, California Sportfishing Protection Alliance, Trout Unlimited, Save Auburn Ravine Salmon and Steelhead, Ophir Property Owners Association, Auburn Ravine Preservation Committee, and Sierra Club – Mother Lode Chapter provide these comments in response to the "Notice of Preparation of a Draft Environmental Impact Report" for the proposed Mid-Western Placer Regional Sewer Project (Project).

1. **The EIR should identify all possible significant environmental impacts of the project.**

The California Environmental Quality Act (CEQA) requires a draft environmental impact report (DEIR) to identify and focus on the possible significant environmental impacts of a proposed project. *See* CEQA Guidelines §15126. The Notice of Preparation (NOP) notes that the SMD-1 wastewater treatment plant (SMD-1 WWTP) and the Auburn wastewater treatment plant (Auburn WWTP) contribute effluent into Rock Creek and Auburn Ravine, respectively. The Project will result in complete cessation of these discharges. The DEIR for this Project should analyze whether cessation of such discharges has the potential to significantly impact salmon and steelhead habitat and migration in Auburn Ravine and Coon Creek.

2. **The EIR should address all feasible measures to mitigate the project's environmental impacts.**

Under CEQA, all feasible mitigation measures must be considered and implemented to reduce environmental impacts to a level of insignificance. *See* CEQA Guidelines § 15126.4. As noted above, the Project will result in complete cessation of SMD-1 WWTP and the Auburn WWTP effluent discharges into Rock Creek and Auburn Ravine, respectively. The DEIR for this Project should analyze the impact that cessation of such discharges will have on salmon and steelhead habitat and migration and should consider identifying and acquiring replacement water as an appropriate measure to mitigate the Project's impact.

3. The EIR must address a reasonable range of alternatives.

We support the NOP's inclusion of the alternative entitled "[a]lternative methods to address flow regime requirements in Rock Creek and Auburn Ravine." We request that the DEIR describe this alternative in sufficient detail to allow a determination of what environmental advantages it offers over the proposed Project. As part of this alternative, the DEIR should note the various regulatory efforts underway that may result in increased flow releases into Auburn Ravine, and analyze the environmental impacts and mitigation required should such efforts result in increased flow. Such analysis should include:

- A scenario that includes minimum streamflows in Auburn Ravine in accordance with Pacific Gas & Electric's (PG&E) Amended Application for New License for the Drum-Spaulding Project (FERC Project No. 2310-193), Measure DS-AQR5 submitted to the Federal Energy Regulatory Commission on June 18, 2012. It is important to note that these minimum streamflows are unlikely to be of sufficient magnitude to address impacts that occur more than one mile downstream of Wise Powerhouse.
- A scenario that includes additional streamflows in Auburn Ravine contributed by Nevada Irrigation District (NID) through the State Water Resources Control Board process. On December 20, 2009 a coalition of organizations and conservation groups protested NID's Petitions for Change in Point of Diversion, Point of Rediversion, Place of Use and Purpose of Use for several different water right permits that authorize diversions from Deer Creek, Bear River, South Yuba River and Middle Yuba River. The protest notes that NID currently uses Auburn Ravine for conveyance of water yet has no legal requirements to provide it ecologically appropriate flows. The protest requests, as a term of protest dismissal, that NID collaboratively develop and agree to maintain a scientifically justified range of target flow regimes for different water years to maintain habitat for all life stages of anadromous salmon and steelhead in Auburn Ravine. Settlement discussions between NID and the protestants are ongoing.
- A scenario that includes additional streamflows in Auburn Ravine contributed by both NID and PG&E through the processes noted above.
- A scenario that assumes neither regulatory process will require additional streamflows into Auburn Ravine.

We also recommend that the DEIR analyze an alternative that assumes NID does not divert the water discharged into Rock Creek by SMD-1 WWTP. The NOP notes that SMD-1 WWTP currently discharges wastewater effluent into Rock Creek, a tributary of Coon Creek, and that the Project would cease such discharges. We understand that, at present, NID has the capability to divert all the water discharged into Rock Creek by SMD-1 WWTP. However, for the purposes of ascertaining the potential environmental impacts of the Rock Creek discharge cessation, we recommend that the environmental document contain an alternative that does not assume that such discharges will be diverted by NID. Given the active regulatory proceedings underway that

will undoubtedly modify the operations of NID, it is reasonably foreseeable that such diversions will cease or will be substantially lessened.

As noted above, we believe that the NOP should consider identifying and acquiring replacement water as an appropriate measure to mitigate the Project's impact. Therefore, we also recommend that the DEIR analyze an alternative that contemplates the City will purchase stored water from NID or PG&E to supplement the flows in Auburn Ravine. Such water would be released from Wise Powerhouse after its annual outage and used to provide pulse flows for Auburn Ravine during critical salmon and steelhead migration periods.

We continue to recommend that the City of Lincoln work with other interested parties, including PG&E and NID, to collaboratively develop a long-term solution for the management of Auburn Ravine. As always, we are happy to discuss any questions or issues you may have regarding this letter. Please feel free to contact Chandra Ferrari, at 916-214-9731 with any questions.

Thank you for your consideration of these comments.

Sincerely,



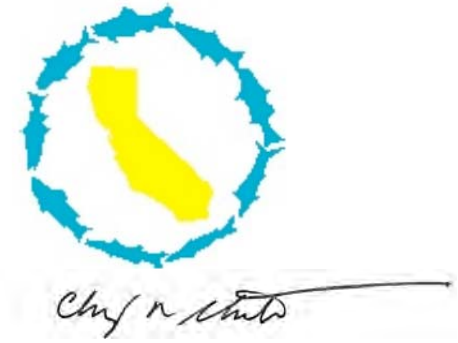


Julie Leimbach
Coordinator, Foothills Water Network
PO Box 713
Lotus, CA 95651
julie@foothillswaternetwork.org



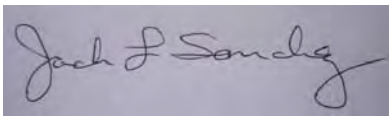


Chandra Ferrari
California Water Policy Director
Trout Unlimited
2239 5th Street Berkeley, CA 94710
(916) 214-9731
(510) 528-7880 (fax)
cferrari@tu.org



Chris Shutes
FERC Projects Director
California Sportfishing Protection Alliance
1608 Francisco St., Berkeley, CA 94703
(510) 421-2405
blancapaloma@msn.com





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Jack Sanchez
President and Coordinator
Save Auburn Ravine Salmon and Steelhead
P.O. Box 4269
Auburn, CA 95604
alcamus39@hotmail.com

Ron Otto
Auburn Ravine Preservation Committee, Ophir Property Owners Assoc., Inc.
10170 Wise Road
Auburn, CA 95603
rottoophir@gmail.com



_____

Allan Eberhart
Sierra Club - Mother Lode Chapter
24084 Clayton Road
Grass Valley, CA 95949
vallialli@wildblue.net

COUNTY OF PLACER
Community Development Resource Agency

PLANNING

MEMORANDUM

TO: Maywan Krach, Environmental Coordination Services

FROM: Alex Fisch, Planning Services Division

DATE: June 13, 2012

SUBJECT: Comments on NOP for Mid-Western Placer Regional Sewer Project

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Following a review of the NOP for this project, the Planning Services Division has the following comments:

1. Portions of the proposed project pipeline route and alternative routes not routed along County roadways would traverse properties classified as Grazing Land and Farmland of Local Importance as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Department of Conservation. In addition, portions of the proposed project pipeline route and alternative routes would traverse properties enrolled in Placer County's Williamson Act Program and appear to include active agricultural uses.

   The scope of potential environmental effects of the project should be modified to consider the potential environmental effects to these farmland resources and to analyze compatibility with the Williamson Act if pipelines or pipeline construction would disrupt or displace agricultural productivity on these lands.

PLACER COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Ken Grehm, Executive Director
Brian Keating, District Engineer
Andrew Darrow, Development Coordinator

.

June 28, 2012

Maywan Krach
Placer County
Community Development Resource Agency
3091 County Center Drive
Auburn, CA 95603

RE: Mid-Western Placer Regional Sewer Project / NOP of a Draft Environmental Impact Report

Maywan:

Regarding the preparation of a Draft EIR for the subject project we have the following comments.

The proposed pipelines and treatment plant improvements, when near a stream, have the potential to alter 100-year floodplain limits. Future EIRs must specifically quantify the incremental effects of this impact and propose mitigation measures if necessary.

Please call me at (530) 745-7541 if you have any questions regarding these comments.

Andrew Darrow, P.E., CFM
Development Coordinator

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COUNTY OF PLACER
Community Development Resource Agency

ENGINEERING & SURVEYING

MEMORANDUM

DATE: JUNE 21, 2012

TO: MAYWAN KRACH, ECS

FROM: REBECCA TABER

SUBJECT: MID-WESTERN PLACER REGIONAL SEWER PROJECT; NOP; CITY OF LINCOLN

This Notice of Preparation (NOP) is for an Environmental Impact Report (EIR) for the Mid-Western Placer Regional Sewer Project. The City of Lincoln is the lead agency. The project would consolidate wastewater treatment within western Placer County by decommissioning the SMD-1 wastewater treatment plant (WWTP) and the Auburn WWTP and expand the existing Lincoln wastewater treatment and reclamation facility (WWTRF) to accommodate the wastewater currently treated at SMD-1 WWTP and Auburn WWTP. The project includes the construction of pipelines from SMD-1 WWTP and Auburn WWTP to the explanded Lincoln WWTRF.

Thank you for the opportunity to review and comment on the NOP. We would like to provide the following comments:

1. The Required Permits and Approvals section of the EIR should include the requirement that the City of Lincoln will submit application(s) for Utility Encroachment Permits for the Engineering and Surveying Department to review and approve prior to construction start for the proposed pipelines within Placer County maintained rights-of-way. Plan Check and Inspection fees for actual time spent on the review and inspection will be paid to Placer County.

2. The impact discussion for trenching, backfill and pavement restoration shall reference the required Placer County Land Development Manual Standard Plates U-26.1, U-26.2, U-28, and U-29. The sewer pipe shall be installed a minimum of 36 inches below the finished grade of any public road. The sewer line shall pass under any County culverts. All culvert crossings shall be reviewed prior to construction and afterwards to verify that the pipe is undamaged, installed to County standards if replaced or repaired, and entrances and exits are clear of all construction debris.

3. The EIR should include discussion on traffic control for work within County maintained rights-of-way as well as discussion of access for residences located off of impacted private roads. A mitigation measure to be included in the EIR traffic impact section is as follows:

Mitigation Measure: The Improvement Plans submitted with the Utility Encroachment Permit application to Placer County shall include a traffic control plan for work within all County maintained highways.

4. Areas proposed for materials and vehicle staging should be identified in the EIR and analyzed for any potential environmental impacts. Materials or vehicles must not obstruct the traveled way nor present a safety hazard to the public.

5. Hours of operation for pipe installation should be considered in the EIR as it relates to traffic impacts during construction and noise impacts. Any proposed mitigation measures should be included in the EIR. Typically traffic control road or lane closures are limited to non-commute hours.

6. A preliminary grading plan showing the proposed earthen basin at the SMD-1 site should be included in the analysis as part of the EIR. Will Placer County be completing this work, or the City of Lincoln? Grading Plans will need to be reviewed and approved by the County prior to commencement of any grading activities at the site. The requirement for submittal of Grading Plans to Placer County should be included in the Required Permits and Approvals section of the EIR.

7. Is any work proposed within the 100-year flood plain of any creeks, streams, or waterbodies? If so, these areas should be identified as part of the EIR analysis and appropriate mitigation measures included as necessary for any potentially significant impacts.

cc: Andrew Gaber, DPW Transportation

Placer County
Health and Human Services Department

Richard J. Burton, M.D., M.P.H.
Health Officer and Department Director

Ken Stuart, M.S.E.H., R.E.H.S.
Environmental Health, Interim Division Director

MEMORANDUM

OFFICE OF THE
PLACER COUNTY HEALTH AND HUMAN SERVICES
Division of Environmental Health

To: Maywan Krach, Environmental Coordination

From: Laura Rath, REHS
Land Use and Water Resources Section

Date: June 22, 2012

Subject: **Mid-Western Placer Regional Sewer Project, Notice of Preparation**

Environmental Health Services has reviewed the Notice of Preparation for the abovementioned project and has the following comment:

1) The proposed sewer line project goes through areas of the Placer County which predominately are served by onsite sewage disposal systems and individual water wells. The proposed sewer line shall meet the required setback of 50 feet to all water wells and should be clear of all onsite sewage disposal components and 100% repair areas. Determining the location of water wells, onsite sewage disposal components and 100% repair areas is especially important for the portions of the sewer line route where the line will go through individual parcels and will not be in an existing utility or road easement. These items should be investigated and discussed in the environmental document.

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Perspective, Hope, and Opportunity

MEMORANDUM

DEPARTMENT OF FACILITY SERVICES

COUNTY OF PLACER

TO: **MAYWAN KRACH, CDRA** DATE: **JUNE 18, 2012**

FROM: **CHRIS HANSON, ENV. ENGINEERING DIVISION (SOLID WASTE)**

SUBJECT: **MID-WESTERN PLACER REGIONAL SEWER PROJECT NOP**

Thank you for the opportunity to review and comment on the above mentioned Notice of Preparation. Placer County is both a participating agency and Responsible Agency under CEQA for this project.

We understand the project proposes to expand the existing Lincoln wastewater treatment plant (WWTP), decommission the SMD 1 and Auburn WWTPs, and construct sewer pipelines from SMD 1 and Auburn to the City of Lincoln. The project area encompasses unincorporated Placer County, the City of Auburn, and the City of Lincoln.

Construction of the project could generate solid waste that could temporarily increase the daily demand for services at solid waste disposal facilities. Placer County provides solid waste collection and management in unincorporated Placer County and also provides staffing and management of the Western Placer Waste Management Authority (Authority). The Authority is a Joint Powers Authority formed by the cities of Lincoln, Rocklin, Roseville and the County of Placer to provide regionalized recycling and disposal services for the western portion of the county.

WPWMA owns and operates the Western Regional Sanitary Landfill, Materials Recovery Facility (MRF), compost facility, and Permanent Household Hazardous Waste Collection Facility, located at the corner of Athens Avenue and Fiddyment Road. A majority of the solid waste collected in western Placer County is first processed at the MRF, which recovers, processes, and markets recyclable materials from the waste stream. The facility also processes source separated wood waste and green waste and accepts separated recyclables, including electronics and other universal wastes, at the recycling drop-off and/or buy-back center. The MRF has a permitted processing limit of 1,750 tons per day and 1,014 vehicles per day. The MRF expanded in 2007, increasing its physical processing capacity of municipal solid waste and construction and demolition debris to 2,200 tons per day.

Residual waste from the MRF is transported to the Western Regional Sanitary Landfill (WRSL). The 281-acre WRSL is permitted to accept 1,900 tons per day and 624 vehicles per day. The landfill has a permitted design capacity of 36,350,000 cubic yards and a remaining capacity of 26,278,330 cubic yards. Under current land use and development conditions, the landfill has a permitted lifespan extending to 2042.

The draft Environmental Impact Report (EIR) should quantify the anticipated volumes of solid waste generated during construction and state how and where the material would be disposed. The analysis should determine the short-term impacts from construction and demolition debris generated during construction and whether the increase in solid waste will impact the daily processing capabilities or permit limits of the MRF and/or landfill, or impact the lifespan of the WRSL.

Thank you again for the opportunity to review the NOP. Should you have any questions, please do not hesitate to call me at 530-886-4965 or Eric Oddo, Program Manager of the Western Placer Waste Management Authority at 916-543-3984.

MEMORANDUM

DATE: JUNE 29, 2012

TO: MAYWAN KRACH, ENVIRONMENTAL COORDINATION SERVICES

FROM: JANELLE HEINZLER, ENVIRONMENTAL ENGINEERING DIVISON

SUBJECT: **MID-WESTERN PLACER REGIONAL SEWER PROJECT, NOTICE OF PREPARATION (CITY OF LINCOLN)**

The Department of Facility Services, Environmental Engineering Division has completed our review of the NOP for the subject project and offers the following comments:

1. In addition to describing and analyzing the environmental impacts of the Regional Sewer Project, fully describe all discretionary actions necessary to complete the project. Include all discretionally actions and entitlements required by affected jurisdictions and agencies, and schedule for completion.
2. Describe and analyze the impacts of serving the Bickford Ranch Specific Plan service area in addition to the City of Auburn and SMD-1 sewer service areas.
3. Describe and analyze how growth will be served in the City of Lincoln, City of Auburn and SMD-1 that may occur between the current existing conditions and when the improvements are complete to the City of Lincoln WWTRF and conveyance facilities.
4. Describe and analyze the impacts of the additional regional sewer flows to the existing City of Lincoln WWTRF and conveyance facilities. The analysis should determine the basis for the need for and the environmental impacts of any necessary improvements to the City of Lincoln facilities as part of the Regional Sewer Project.
5. Describe and analyze any impacts to the existing SMD-1 NPDES permit as associated with the Regional Sewer Project and changes needed for the permit.
6. Describe how the City of Lincoln will obtain ownership of the 42-inch trunk sewer along Highway 193 which was constructed by the Bickford Ranch project. Discuss the impacts of any alternatives if this trunk sewer is not obtained.

Species Observed During Field Surveys

Appendix G

Species Observed During Field Surveys

Family/Scientific Name	Common Name	Wetland Indicator Status [b]
Plants		
*Abutilon theophrasti**	Velvet-leaf	FACU
*Acacia dealbata**	Silver wattle	
Acer macrophyllum	Big-leaf maple	FACU
Acer negundo	Box-elder	FAC
Achillea millefolium	Common yarrow	FACU
Achyrachaena mollis	Blow-wives	FAC
Acmispon americanus var. americanus	Spanish clover	
Acmispon spp. *(likely A. brachycarpus)*	Hill lotus	
Aesculus californica	California buckeye	
Agoseris grandiflora var. grandiflora	Grand mountain dandelion	
*Agrostis stolonifera**	Creeping bentgrass	FAC
*Ailanthus altissima**	Tree of heaven	
*Aira caryophyllea**	Silver hairgrass	FACU
*Albizia lophantha**	Plume acacia	
*Alcea rosea**	Hollyhock	
*Alisma lanceolatum**	Water-plantain	OBL
Alnus rhombifolia	White alder	FACW
*Amaranthus albus**	Tumbleweed	FACU
*Amaranthus blitoides**	Procumbent pigweed	FACW
Ambrosia psilostachya	Western ragweed	FACU
Amsinckia spp. *(likely A. menziesii)*	Fiddleneck	
*Anagallis arvensis**	Scarlet pimpernel	
Andropogon virginicus var. virginicus*	Broomsedge bluestem	FAC
*Anthemis cotula**	Mayweed	FACU
*Anthoxanthum odoratum**	Vernal sweet grass	FACU
*Anthriscus caucalis**	Bur-chervil	
*Arabidopsis thaliana**	Mouse-ear cress	
Arctostaphylos spp.	Manzanita	
Arctostaphylos viscida	Whiteleaf manzanita	
Aristolochia californica	Dutchman's pipe	
Artemisia douglasiana	California mugwort	FACW
Asclepias fascicularis	Narrow-leaved milkweed	FAC
*Atriplex prostrata**	Fat-hen	FAC
*Avena barbata**	Slender wild oat	
*Avena fatua**	Wild oat	
Azolla filiculoides	Mosquito-fern	OBL
Baccharis pilularis	Coyote brush	
*Bellardia trixago**	Mediterranean lineseed	
Betula spp. *	Birch	
Bidens frondosa	Beggar-ticks	FACW
*Brachypodium distachyon**	False brome	
*Brassica nigra**	Black mustard	
*Brassica rapa**	Field mustard	FACU
*Briza minor**	Little rattlesnake grass	FAC
Brodiaea elegans spp. elegans	Harvest brodiaea	FACU
*Bromus catharticus**	Rescue grass	
*Bromus diandrus**	Rip-gut brome	

*Bromus hordeaceus**	Soft chess	FACU
*Bromus madritensis**	Red brome	FACU
Calandrinia ciliata	Red maids	FACU
Callitriche marginata	Winged water-starwort	OBL
Calocedrus decurrens	Incense cedar	
Calochortus albus	White fairy lantern	
Calystegia occidentalis	Chaparral false bindweed	
*Capsella bursa-pastoris**	Shepherd's purse	FACU
Cardamine oligosperma	Bitter-cress	FAC
*Cardaria draba**	Hoary cress	
*Carduus pycnocephalus**	Italian thistle	
Carex barbarae	Santa Barbara sedge	FAC
Carex densa	Dense sedge	OBL
Carex praegracilis	Slender sedge	FACW
*Catalpa bignonioides**	Southern catalpa	
Ceanothus cuneatus	Wedgeleaf ceanothus	
*Centaurea solstitialis**	Yellow star-thistle	
Centromadia fitchii	Fitch's spikeweed	FACU
Cephalanthus occidentalis	California buttonbush	OBL
*Cerastium glomeratum**	Mouse-ear chickweed	FACU
Cercis occidentalis	California redbud	
*Chamaesyce maculata**	Spotted spurge	
*Chenopodium album**	Lamb's-quarters	FACU
Chlorogalum spp.	Soap plant	
*Chondrilla juncea**	Skeleton weed	
*Cichorium intybus**	Chicory	FACU
*Cirsium vulgare**	Bull thistle	FACU
Clarkia purpurea spp. *quadrivulnera*	Winecup clarkia	
Clarkia unguiculata	Red-ribbons	
Claytonia perfoliata	Miner's lettuce	FAC
*Conium maculatum**	Poison hemlock	FAC
*Convolvulus arvensis**	Field bindweed	
*Cortaderia selloana**	Pampas grass	FACU
*Cotula coronopifolia**	Brass-buttons	OBL
Crassula connata	Sand pygmy-weed	FAC
Croton setiger	Turkey mullein	
*Cynodon dactylon**	Bermuda grass	FACU
*Cynosurus echinatus**	Hedge-hog dogtail	
Cyperus eragrostis	Tall flatsedge	FACW
*Dactylis glomerata**	Orchardgrass	FACU
*Daucus carota**	Queen Anne's lace	FACU
Daucus pusillus	American wild carrot	
Delphinium variegatum spp. *variegatum*	Royal larkspur	
Deschampsia danthanioides	Annual hairgrass	FACW
Dichlostemma captitatum	Blue dicks	FACU
Dichlostemma volubile	Snakelily	
*Digitaria sanguinalis**	Crab grass	FACU
Distichlis spicata	Saltgrass	FACW
*Dittrichia graveolens**	Stinkweed	
Dodecatheon hendersonii	Shooting star	
Dudleya cymosa spp. *cymosa*	Canyon liveforever	
*Dysphania ambrosioides**	Mexican tea	FAC
Eleocharis acicularis var. acicularis	Needle spikerush	OBL

Eleocharis macrostachya	Common spikerush	
*Elymus caput-medusae**	Medusa-head grass	
Elymus glaucus	Blue wild-rye	FACU
Elymus triticoides	Creeping wild rye	FAC
Epilobium brachycarpum	Annual fireweed	
Epilobium brachycarpum	Annual fireweed	
Epilobium ciliatum	Willow-herb	FACW
Epilobium densiflorum	Boisduvalia	FACW
Equisetum arvense	Common horsetail	FAC
Equisetum telmateia spp. *braunii*	Giant horsetail	FACW
Erigeron canadensis	Horseweed	FACU
Erigeron foliosus	Leafy fleabane	
Eriogonum spp. *(likely E. nudum var. nudum)*	Naked buckwheat	
Eriophyllum lanatum		
*Erodium brachycarpum**	Shortfruit stork'sbill	
*Erodium cicutarium**	Red-stem filaree	
Eschscholzia californica	California poppy	
Eucalyptus spp.	Eucalyptus	
*Euphorbia peplus**	Petty spurge	
Euthamia occidentalis	Western goldenrod	FACW
*Festuca arundinacea**	Tall fescue	FAC
*Festuca myuros**	Rattail fescue	FACU
*Festuca perennis**	Perennial ryegrass	FAC
*Ficus carica**	Fig	
*Foeniculum vulgare**	Sweet fennel	
Fraxinus dipetala	Foothill ash	
Fraxinus latifolia	Oregon ash	FACW
Galium aparine	Common bedstraw	FACU
Galium porrigens	Climbing bedstraw	
*Geranium dissectum**	Cut-leaf geranium	
*Geranium molle**	Dove geranium	
Gilia capitata spp. *staminea*	Bluehead gilia	
*Glyceria declinata**	Low manna grass	FACW
Hedera spp. *	Ivy	
Helenium puberulum	Rosila	FACW
Heterocodon rariflorum	Rareflower heterocodon	FAC
Heteromeles arbutifolia	Toyon	
Hoita spp. *(likely H. macrostachya)*	Leather root	OBL
*Holcus lanatus**	Velvet grass	FAC
Holocarpha spp. (likely H. virgata)	Pitgland tarweed	
Hordeum brachyantherum	Meadow barley	FACW
Hordeum marinum spp. *gussoneanum**	Mediterranean barley	FAC
Hordeum murinum spp. *glaucum**	Wild barley	FAC
Hordeum murinum spp. *leporinum**	Hare barley	FAC
Hydrocotyle ranunculoides	Marsh penny-wort	OBL
Hypericum perforatum spp. *perforatum**	Klamathweed	FACU
*Hypericum spp. **	Hypericum	
*Hypochaeris glabra**	Smooth cat's-ear	
*Hypochaeris radicata**	Rough cat's-ear	FACU
*Iris pseudacorus**	Yellowflag iris	OBL
Juglans hindsii	Northern California black walnut	FAC
*Juglans regia**	English walnut	

Juncus balticus spp. ater	Baltic rush	
Juncus bufonius	Toad rush	FACW
Juncus effusus sspp. pacificus	Pacific rush	FACW
Juncus occidentalis	Western rush	FACW
Juncus oxymeris	Pointed rush	FACW
Juncus patens	Spreading rush	FACW
Juncus spp.	Rush	
Juncus xiphioides	Iris-leaved rush	OBL
Keckiella breviflora var. breviflora	Bush penstemon	
*Kickxia elatine**	Fluvellin	FAC
*Lactuca serriola**	Prickly lettuce	FACU
*Lactuca virosa**	Bitter lettuce	
Lagophylla glandulosa	Glandular hareleaf	
*Lamium amplexicaule**	Dead nettle	
*Lathyrus angulatus**	Angled pea	
*Lathyrus latifolius**	Sweet pea	
*Lathyrus tingitanus**	Tangier pea	
Layia fremontii	Fremont's tidy-tips	
Leersia oryzoides	Rice cut-grass	OBL
Lemna minor	Duckweed	OBL
Lemna minor	Duckweed	OBL
*Leontodon saxatilis sspp. saxatilis**	Hairy hawkbit	FACU
*Lepidium coronopus**	Swine-cress	
*Lepidium latifolium**	Perennial pepperweed	FAC
Lepidium spp. *(likely L. oblongum)*	Pepperweed	
Leptosiphon bicolor	True babystars	FACU
Ligustrum spp. *	Privet	
Limosella acaulis	Stemless mudwort	OBL
*Linum bienne**	Pale flax	
*Liquidambar styraciflua**	Sweetgum	
*Liriodendron tulipifera**	Tulip-tree	
Lithophragma parviflorum var. parviflorum	Woodland star	
*Logfia gallica**	Narrowleaf cottonrose	
Lonicera spp.	Honeysuckle	
Lonicera spp. *(likely L. interrupta)*	Chaparral honeysuckle	
*Lotus corniculatus**	Bird's-foot trefoil	FAC
Ludwigia peploides spp. *peploides**	Yellow water-primrose	OBL
Lupinus bicolor	Miniature lupine	
Lupinus nanus	Sky lupine	
*Lythrum hyssopifolia**	Hyssop loosestrife	OBL
Madia gracilis	Slender tarweed	
Magnolia spp.	Magnolia	
*Malva nicaeensis**	Bull mallow	
*Malva parviflora**	Cheeseweed	
Marah fabacea	California man-root	
*Marrubium vulgare**	White hore-hound	FACU
Marsilea vistiata sspp. vestita	Hairy waterclover	OBL
*Matricaria discoidea**	Pineapple weed	FACU
*Medicago lupulina**	Black medick	FACU
*Medicago polymorpha**	California bur-clover	FACU
*Medicago sativa**	Alfalfa	
Melica californica	California melicgrass	
*Melilotus indicus**	Sour clover	FACU

Melilotus spp. *(likely M. albus)**	Sweet clover	
*Mentha pulegium**	Penny-royal	OBL
*Mentha spicata**	Spearmint	FACW
Microseris spp.	Microseris	
Mimulus guttatus	Seep monkeyflower	OBL
*Morus alba**	White mulberry	
Muhlenbergia rigens	Deergrass	UPL
*Myriophyllum aquaticum**	Parrotfeather	OBL
Naturtium officinale	Water-cress	OBL
Navarretia intertexta	Needle-leaved navarretia	FACW
*Nerium oleander**	Oleander	
Nicotiana spp. *(likely N. attenuata)*	Coyote tobacco	FACU
Oemleria cerasiformis	Oso berry	FACU
Oenothera elata spp. *hirsutissima*	Hooker's evening primrose	FACW
*Olea europaea**	Olive	
Orthocarpus attenuatus	Valley tassels	
Orthocarpus densiflora	Owls' clover	
*Parthenocissus inserta**	Virginia creeper	
*Paspalum dilatatum**	Dallis grass	FAC
Pellaea mucronata var. mucronata	Bird's-foot fern	
Pentagramma triangularis	Gold-back fern	
Perideridia kelloggii	Kellogg's yampah	
*Petrorhagia dubia**	Hairypink	
Phacelia cicutaria	Caterpillar scorpionweed	
Phacelia egena	Foothill phacelia	
*Phalaris aquatica**	Harding grass	FACU
Phoradendron spp.	Mistletoe	
Photinia spp. *	Photinia	
Phyla nodiflora	Common lippia	FAC
Phytolacca americana var. americana	Pokeweed	FACU
*Picris echioides**	Bristly ox-tongue	
Pinus ponderosa	Ponderosa pine	FACU
Pinus sabiniana	Foothill pine	
Plagiobothrys nothofulvus	Foothills popcornflower	FAC
Plagiobothrys stipitatus var. micranthus	Stalked popcornflower	FACW
Plantago elongata	Prairie plantain	FACW
*Plantago lanceolata**	English plantain	FACU
*Plantago major**	Common plantain	FAC
Platanus spp. * *(likely P. xhispanica)*	Plane-tree	
Plectritis macrocera	White plectritis	FACU
*Poa annua**	Annual bluegrass	FAC
*Poa bulbosa**	Bulbous bluegrass	
Poa howellii	Howell's bluegrass	
*Polygonum arenastrum**	Common knotweed	
Polygonum spp. *	Smartweed	
Polypodium californicum	California polypody	
*Polypogon interruptus**	Ditch polypogon	FACW
*Polypogon monspeliensis**	Annual beardgrass	FACW
Polystichum imbricans spp. *imbricans*	Narrowleaf swordfern	
*Populus alba**	White poplar	
Populus fremontii	Fremont's cottonwood	
Populus spp. *(hybrid)**	Populus	
Prunella vulgaris var. vulgaris*	Self-heal	FACU

*Prunus cerasifera**	Cherry plum	
*Prunus dulcis**	Almond	
Prunus ilicifolia	Holly-leaved cherry	
*Pseudognaphlium luteoalbum**	Jersey cudweed	FACW
Pseudognaphlium stramineum	Annual cudweed	FAC
Ptelea crenulata	California hoptree	
Pteridium aquilinum	Bracken fern	FACU
*Pyracantha angustifolia**	Firethorn	
Pyrus spp. *	Pear	
Quercus douglasii	Blue oak	
Quercus kelloggii	California black oak	
Quercus lobata	Valley oak	FACU
Quercus spp. (*Q. xhybrid*)	Oak	
Quercus wislizeni	Interior live oak	
Ranunculus bonarientis var. trisepalus	Carter's buttercup	OBL
Ranunculus californicus var. californicus	California buttercup	FAC
*Ranunculus muricatus**	Spiny-fruit buttercup	FACW
*Raphanus sativus**	Wild radish	
Rhamnus californica	Coffeeberry	
*Robinia pseudoacacia**	Black locust	FACU
Rorippa curvisiliqua	Curvepod yellowcress	OBL
Rorippa palustris sspp. palustris	Bog yellowcress	OBL
Rosa californica	California wild rose	FAC
*Rubus armeniacus**	Himalayan blackberry	FACU
Rubus ursinus	California blackberry	FACU
*Rumex acetosella**	Common sheep sorrel	FACU
*Rumex conglomeratus**	Clustered dock	FACW
*Rumex crispus**	Curly dock	FAC
*Rumex pulcher**	Fiddle dock	FAC
Sagittaria spp. *(likely S. latifolia)*	Arrowhead	OBL
Salix exigua	Sandbar willow	FACW
Salix gooddingii	Black willow	FACW
Salix laevigata	Red willow	FACW
Salix lasiolepis	Arroyo willow	FACW
Salix lucida	Shining willow	
Sambucus mexicana	Blue elderberry	
Sanicula bipinnatifida	Purple sanicle	
*Scandix pecten-verneris**	Venus' needle	
*Schinus terebinthifolius**	Brazilian pepper-tree	FAC
Schoenoplectus actus var. occidentalis	Tule	OBL
Scrophularia californica	California figwort	FAC
Selaginella hansenii	Hansen's spike-moss	
*Senecio vulgaris**	Common groundsel	FACU
Sequoia sempervirens	Redwood	
*Sherardia arvensis**	Field madder	
*Silene gallica**	Windmill pink	
*Silybum marianum**	Milk thistle	
*Sisymbrium orientale**	Oriental mustard	
Solanum americanum	Small-flowered nightshade	FACU
Solidago spp.	Goldenrod	
Sonchus asper spp. *asper**	Prickly sowthistle	FACU
*Sonchus oleraceus**	Common sow-thistle	
*Sorghum halapense**	Johnsongrass	FACU

*Spergula arvensis**	Stickwort	
*Spergularia bocconii**	Boccone's sand-spurrey	FAC
Stachys spp. (likely S. ajugoides)	Hedge-nettle	OBL
*Stellaria media**	Common chickweed	FACU
Stipa pulchra	Purple needlegrass	
Symphoricarpos albus var. laevigatus	Snowberry	FACU
*Torilis arvensis**	Field hedge parsley	
Toxicodendron diversilobum	Poison oak	
*Tragopogon porrifolius**	Salsify	
*Tribulus terrestris**	Puncture vine	
*Trifolium arvense**	Rabbitfoot clover	
*Trifolium dubium**	Little hop clover	FACU
*Trifolium glomeratum**	Clustered clover	
*Trifolium hirtum**	Rose clover	
*Trifolium incarnatum**	Crimson clover	
*Trifolium pratense**	Red clover	FACU
*Trifolium repens**	White clover	FAC
Trifolium spp.	Clover	
*Trifolium subterraneum**	Subterranean clover	
Trifolium willdenovii	Tomcat clover	FACU
Triglochin scilloides	Flowering quillwort	
Triphysaria eriantha	Johnny-tuck	
Triteleia hyacinthina	White brodiaea	FAC
Triteleia ixioides	Golden brodiaea	FAC
Triteleia laxa	Common triteleia	
*Triticum aestivum**	Wheat	
Typha latifolia	Broad-leaved cattail	OBL
Ulmus spp.	Elm	
Urtica dioica spp. *holosericea*	Hoary nettle	FAC
*Verbascum blattaria**	Moth mullein	
*Verbascum thapsus**	Woolly mullein	FACU
*Verbena bonariensis**	Purple-top vervain	FACW
*Veronica anagallis-aquatica**	Water speedwell	OBL
Veronica peregrina sspp. halapensis	Purslane speedwell	OBL
*Vicia hirsuta**	Tiny vetch	
Vicia sativa spp. *nigra**	Common vetch	UPL
*Vicia villosa**	Hairy vetch	
*Vinca major**	Greater periwinkle	
Vitis californica	California wild grape	FACU
Washingtonia spp.	Fan palm	
Wyethia angustifolia	California compassplant	
Xanthium strumarium	Cocklebur	FAC
Zeltnera muehlenbergii	Muhlenberg's centaury	FACW
Wildlife		
Agelaius phoeniceus	Red-winged blackbird	
Anas acuta	Northern pintail	
Anas platyrhynchos	Mallard	
Branta Canadensis	Canada goose	
Buteo jamaicensis	Red-tailed hawk	
Buteo swainsoni	Swainson's hawk	
Calypte anna	Anna's hummingbird	
Canis latrans	Coyote	
Cathartes aura	Turkey vulture	

Charadrius vociferus	Killdeer
Circus cyaneus	Northern harrier
Elanus leucurus	White-tailed kite
Falco mexicanus	Prairie falcon
Fulica americana	American coot
Limnodromus scolopaceus	Long-billed dowitcher
Molothrus ater	Brown-headed cowbird
Passerculus sandwichensis	Savannah sparrow
Plegadis chihi	White-faced ibis
Procyon lotor	Raccoon
Recurvirostra americana	American avocet
Spinus psaltria	Lesser goldfinch
Stelgidopteryx serripennis	Northern rough-winged swallow
Sturnella neglecta	Western meadowlark
Tyrannus verticalis	Western kingbird

[*] denotes naturalized species

[b] OBL: Obligate, FACW: Facultative Wetland, FAC: Facultative, FACU: Facultative Upland, U: Upland

Native American Correspondence (Phone Log and Letters)

Appendix H

Record of Contact with Native Americans for the Midwestern Placer Regional Sewer Project/ Cultural Resources Inventory				
Name	**Affiliation**	**Date of Contact**	**Form of Contact**	**Notes**
David Keyser, Chairman Cc: Marcos Guerrero, THPO	United Auburn Indian Community of the Auburn Rancheria (UAIC)	6/21/2012	Letter	UAIC comment letter on Proposed Project Notice of Preparation (NOP). See attached letter.
Native American Heritage Commission		6/22/2012	e-mail & fax	Request for Sacred Land Files search and list of contacts.
		6/26/2012	e-mail and phone call	Per the NAHC's request, a spreadsheet with the Townships, Ranges, and Sections of the project were included with the request. Called to confirm receipt of updated request. NAHC confirmed receipt of request.
		7/23/2012	Phone call	Called to check on status of NAHC request. NAHC said they would call back with an update on 7/24/2012. No response was received on 7/24/2012.
		7/27/2012	Phone call	Called back to check on status of NAHC request. Left voicemail.
		7/30/2012	Phone call	Called back to check on status of NAHC request. Was told request would arrive via

				mail or fax on 8/3/2012
		8/9/2012	Fax Letter	Received the NAHC response
		8/24/2012	e-mail and fax	Request for Sacred Land Files search and list of contacts for added Turkey Creek project alignment.
		8/24/2012	Phone call	Called to confirm receipt of NAHC request. NAHC confirmed that they had the request and would start to process request.
		8/28/2012	Fax Letter	Received the NAHC response.
Sam Daniels, Vice Chairperson	Shingle Springs Band of Miwok Indians	8/24/2012	USPS Mail	Proposed project Introductory letter and maps sent.
Rose Enos	Maidu/ Washoe	8/24/2012	USPS Mail	Proposed project Introductory letter and maps sent.
Nicholas Fonseca, Chairperson	Shingle Springs Band of Miwok Indians	8/24/2012	USPS Mail & e-mail	Proposed project Introductory letter and maps sent.
Marcos Guerrero, THPO	United Auburn Indian Community of the Auburn Rancheria (UAIC)	8/24/2012	USPS Mail & e-mail	Response to UAIC NOP comment letter.
Judith Marks	Colfax-Todds Valley Consolidated Tribe	8/24/2012	USPS Mail	Proposed project Introductory letter and maps sent.
David Keyser, Chairman	United Auburn Indian Community of the Auburn Rancheria (UAIC)	8/24/2012	USPS Mail	Response to UAIC NOP comment letter.
Daniel Fonseca	Shingle Springs Band of Miwok Indians	8/24/2012	USPS Mail	Proposed project Introductory letter and maps

				sent.
April Wallace Moore	Nisenan So. Maidu Konkow Washoe	8/24/2012	USPS Mail	Proposed project Introductory letter and maps sent.
Marcos Guerrero, THPO	United Auburn Indian Community of the Auburn Rancheria (UAIC)	8/28/2012	e-mail	Mr. Guerrero said he will search UAIC inventory and get back to me. He requested the GIS files for the maps attached to the letter. Stantec e-mailed GIS files to Mr. Guerrero.
April Wallace Moore	Nisenan So. Maidu Konkow Washoe	8/30/2012 11:15am	Phone call	Received a phone call from Ms. Moore. She said that the Turkey Creek area is a very sensitive area for Native American cultural resources and BRMs have been found in the area along with oral history about that area for salt. She requested copies of any cultural resource reports and a copy of the draft EIR when they are complete. She also requested to be notified if the project contractor comes across any Native American resources during project construction.
Rose Enos	Maidu/ Washoe	9/11/2012	Phone Call	Ms. Enos did not

		1:33pm		know of any sites on or near the project. She asked that the proper tribes be notified if any cultural resources or burials are encountered during project construction.
Judith Marks	Miwok/ Maidu	9/11/2012 1:37pm and 1:43pm	Phone Call	Called both phone numbers provided by the NAHC and Left a voicemail at both numbers for Ms. Marks.
Sam Daniels	Shingle Springs Band of Miwok Indians (Miwok/Maidu)	9/11/2012 1:45pm	Phone Call	Spoke to receptionist and said that Mr. Daniels is no longer Vice Chairperson and they had no number to reach him.
Nicholas Fonseca, Chairperson and Daniel Fonseca	Shingle Springs Band of Miwok Indians (Miwok/Maidu)	9/11/2012 1:48pm	Phone Call	Spoke to receptionist and she gave me the phone number to reach Nicholas Fonseca and Daniel Fonseca. (916) 753-7905. A voicemail was left at this number.
David Keyser, Chairperson	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/11/2012 1:50pm	Phone Call	Spoke to receptionist. She told me to call Marcos Guerrero and that Mr. Guerrero would discuss the project with Mr. Keyser.
Marcos Guerrero, Tribal	United Auburn Indian	9/11/2012 1:52pm	Phone Call	Left a voicemail for Mr. Guerrero.

Preservation Committee	Community of the Auburn Rancheria (UAIC)			
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/11/2012 2:41pm	e-mail	Mr. Guerrero responded to my voicemail earlier that afternoon and said that the UAIC has resource concerns and he will get back to me on the details.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/17/2012 6:31pm	e-mail	Mr. Guerrero wrote a follow up e-mail from his previous correspondence on 9/11/2012 and he stated that there appear to be a number of concerns throughout the project APE and that he wanted to arrange a meeting to discuss the potential for unavoidable adverse effects and mitigation.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/19/2012 1:30pm	Phone call	The phone call reiterated the e-mail from 9/17/2012.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/19/2012 2:12pm	E-mail	Meagan O'Deegan, Cultural Resource Specialist with Stantec consulting proposed a day and time for the meeting with the

				UAIC. 10/3 at 1pm
Daniel Fonseca, Cultural Resource Director, THPO, and Most Likely Descendent (MLD)	Shingle Springs Band of Miwok Indians	9/19/2012	USPS Letter	Mr. Fonseca stated that the Shingle Springs Band of Miwok Indians were not aware of any known cultural resources in the project APE. Mr. Fonseca did request copies of any Cultural Resource Reports and CEQA documents completed for the project. Lastly, if any human remains are found during project construction activities, Mr. Fonseca asked that he be notified and consulted.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/21/2012 8:27am	E-mail	Mr. Guerrero responded to the e-mail from 9/19/2012 and confirmed that the day and time worked for the meeting. He inquired about where the meeting would take place.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/21/2012 10:31am	E-mail	Meagan O'Deegan, Cultural Resource Specialist with Stantec consulting responded to Mr. Guerrero's

				request by arranging to meet at the Stantec Rocklin office.
Marcos Guerrero, Tribal Preservation Committee	United Auburn Indian Community of the Auburn Rancheria (UAIC)	9/21/2012 3:02pm	E-mail	A meeting reminder was sent out for the meeting on October 3, 2012 at 1pm. Mr. Guerrero accepted this meeting reminder.
Marcos Guerrero, Tribal Preservation Committee and Jeromey Cayton with the UAIC	United Auburn Indian Community of the Auburn Rancheria (UAIC)	10/3/2012 1:00pm-3pm	Meeting	Meeting was attended by Meagan O'Deegan, Bernadette Bezy, Todd Kotey, and Shawn Lebanowski with Stantec consulting and by Eric Wohlgemuth with Far Western Anthropological Research Group. The meeting went over concerns the UAIC had with Native American village and burial sites along the project pipeline routes. Archaeological monitoring during geotechnical work and during some construction of the project. Plans for a project site visit with the UAIC were made.
Marcos Guerrero,	UAIC	10-3-2012 to	E-mail and	From October 3

with the UAIC Tribal Preservation Committee (THPO) and Jeromey Cayton with the UAIC		10/24/2012	phone calls	to October 24 there were multiple e-mails and a couple phone calls for coordination and planning of the UAIC project site visit. The site visit was scheduled for October 25, 2012.
Marcos Guerrero, Tribal Preservation Committee and Jeromey Cayton with the UAIC	United Auburn Indian Community of the Auburn Rancheria (UAIC)	10/25/2012	Project site visit	Meagan O'Deegan, with Stantec consulting, Eric Wohlgemuth with Far Western Anthropological Research Group and Susan Stewart with SRF. The purpose of the site visit was to identify Native American sites that may be impacted by the project.

Print Form

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
915 Capitol Mall, RM 364
Sacramento, CA 95814
(916) 653-4082
(916) 657-5390 – Fax
nahc@pacbell.net

Information Below is Required for a Sacred Lands File Search

Project: Midwestern Placer Regional Sewer Project

County: Placer

USGS Quadrangle

Name: Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn

Township: see map Range: see map Section(s): see map

Company/Firm/Agency:

Stantec Consulting on behalf of the City of Lincoln

Contact Person: Meagan O'Deegan, Cultural Resource Specialist

Street Address: 101 Providence Mine Road, Suite 202

City: Nevada City Zip: 95959

Phone: (530) 470 – 0515

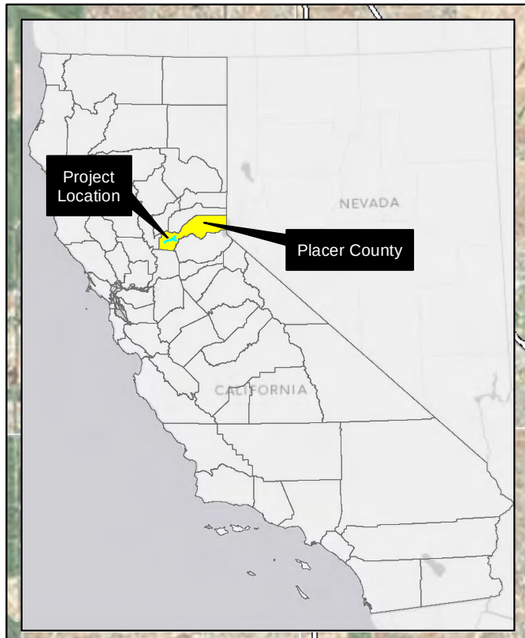
Fax: (530) 470 – 0518

Email: meagan.odeegan@stantec.com

Project Description:

The Proposed Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln.

X Project Location Map is attached



SMD1 WWTP NEW PUMP STATION

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

Approximate Highway 65 Bypass Alignment

BICKFORD PIPE

EXISTING SEWER

FORCE MAIN / GRAVITY TRANSITION STRUCTURE ENERGY DISSIPATION AND ODOR CONTROL

AUBURN WWTP NEW PUMP STATION

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

GLADDING RD
McCOURTNEY RD
CROSBY HEROLD RD
GARDEN BAR RD
GARDEN BAR RD
MT PLEASANT RD
DRY CREEK RD
HIGHWAY 49
JOEGER RD
BELL RD
49
ATWOOD RD
BAXTER GRADE RD
MT VERNON RD
BALD HILL RD
WISE RD
65
FRUITVALE RD
CHILI HILL RD
FOWLER RD
VIRGINIATOWN RD
LOZANOS RD
OPHIR RD
DOWD RD
NICOLAUS RD
193
MOORE RD
FIDDYMENT RD
EAST CATLETT RD
ATHENS AV
INDUSTRIAL AV
65
TWELVE BRIDGES DR
ENGLISH COLONY WY
TAYLOR RD
NEWCASTLE RD
SIERRA COLLEGE BL
AUBURN FOLSOM RD
KING RD

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

N

0 2 Miles

Stantec

1 inch = 5,669 feet

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipe
Wastewater Treament Facility

SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 3,000 6,000 Feet
1 inch = 2,613 feet

Stantec

N

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

ALTERNATIVE PIPE JUNCTION

Common Pipeline Route Refer to Figure 2c

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

- Alternative SMD1 Alignment
- Preferred SMD1 Alignment
- Alternative Auburn Alignment
- Preferred Auburn Alignment
- Alternative Common/Fowler Alignment
- Preferred Common/Fowler Alignment
- Effluent Pipe, Reclaimed (Existing)
- Effluent Pipe, Reclaimed (Proposed)
- Lincoln Bickford Pipeline
- Wastewater Treament Facility
- Lincoln Existing Sewer Pipeline

N

0 3,000 Feet

Stantec

1 inch = 1,495 feet

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipeline
Wastewater Treament Facility

SMD1 Pipeline Route
Refer to Figure 2a

Auburn Pipeline Route
Refer to Figure 2b

PIPE JUNCTION

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING SEWER

BICKFORD PIPE

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FOWLER RD
VIRGINIATOWN RD
CHILI HILL RD
SCHINDLER RD
FRUITVALE RD
WINDOW LN
QUAIL RD
OAK KNOLL LN
ASHLEY LN
OAKHURST DR
MELODY LN
MONUMENT PL
VIRGINIA LN
ROSEWOOD RD
BRIDGE LN
TOPPER LN
CHAPARRAL LN
SHADY OAKS LN
GOLD HILL RD
GOLD CREST CT
RIDGE RD (NG)
WELCOME RD
RURAL LN
SYCAMORE HILL RD
RIDGE VIEW LN
RAINBOW VALLEY RD
FROG POND RD
MANDARIN HILL RD
MANDARIN HILL CT
ROLLING HILLS LN
OAK VIEW RD
COLUMBIA DAM RD
WHITTINGTON DR
RAVINE CT
DUTCH CT
HIGHWAY 193
193
GRAPEVINE RAVINE LN
COUNTRY LN
DEL MONTE LN
LYLES LN
POTTY HILL RD
CLARK TUNNEL RD
SIERRA COLLEGE BL
SAGE LN
STARDUST LN
HEATHER DR
PENNY LN
INDIAN OAKS DR
STAGECOACH LN
COYOTE LN
MINI RANCH RD
SEGO LN
RUSTIC LN
IRONWOOD LN
DANIELS DR
HARDSCRABBLE

0 3,000 Feet
1 inch = 1,508 feet
Stantec

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Alternative SMD1 Alignment
Alternative Auburn Alignment
Alternative Common/Fowler Alignment
Existing Reclaimed Effluent Pipeline
Lincoln Bickford Pipeline
Existing Lincoln Sewer Pipeline
Preferred SMD1 Alignment
Preferred Auburn Alignment
Preferred Common/Fowler Alignment
Proposed Reclaimed Effluent Pipe
Preferred Potential Effluent Recycling Area
Alternate Potential Effluent Recycling Area
Wastewater Treament Facility

MOORE RD
DOWD RD
FIDDYMENT RD
EAST CATLETT RD
SUNSET BLVD WEST
ATHENS AV

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

V:\1840\active\184030298-lincoln_phase_2\environmental\gis\mxd\ceqa\pd\fig_2d_wwtf.mxd

Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

N

0 Stantec 4,000 Feet

1 inch = 1,881 feet

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 5/24/2012

STATE OF CALIFORNIA Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-6251
Fax (916) 657-5390

August 9, 2012

Meagan O'Deegan
Stantec Consulting
101 Providence Mine Road, Suite 202
Nevada City, CA 95959

Sent by Fax: 530-470-0518
Number of Pages: 2

Re: Midwestern Placer Regional Sewer Project, Placer County.

Dear Ms. O'Deegan:

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Placer County
August 8, 2012

Rose Enos
15310 Bancroft Road
Auburn , CA 95603
(530) 878-2378

Maidu
Washoe

April Wallace Moore
19630 Placer Hills Road
Colfax , CA 95713
530-637-4279

Nisenan - So Maidu
Konkow
Washoe

Colfax-Todds Valley Consolidated Tribe
Judith Marks
1068 Silverton Circle
Lincoln , Cali 95648
916-670-5714
916-434-7876 - home

Miwok
Maidu

Shingle Springs Band of Miwok Indians
Sam Daniels, Vice Chairperson
P.O. Box 1340
Shingle Springs , CA 95682
(530) 676-8010
(530) 676-8033 Fax

Miwok
Maidu

Shingle Springs Band of Miwok Indians
Nicholas Fonseca, Chairperson
P.O. Box 1340
Shingle Springs , CA 95682
nfonseca@ssband.org
(530) 676-8010
(530) 676-8033 Fax

Miwok
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Daniel Fonseca
P.O. Box 1340
Shingle Springs , CA 95682
(530) 676-8010
(530) 676-8033 Fax

Miwok
Maidu

United Auburn Indian Community of the Auburn Rancheria
David Keyser, Chairperson
10720 Indian Hill Road
Auburn , CA 95603
530-883-2390
530-883-2380 - Fax

Maidu
Miwok

United Auburn Indian Community of the Auburn Rancheria
Marcos Guerrero, Tribal Preservation Committee
10720 Indian Hill Road
Auburn , CA 95603
mguerrero@auburnrancheria.com
530-883-2364
530-883-2320 - Fax

Maidu
Miwok

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Midwestern Placer Regional Sewer project, Placer County

Print Form

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
915 Capitol Mall, RM 364
Sacramento, CA 95814
(916) 653-4082
(916) 657-5390 – Fax
nahc@pacbell.net

Information Below is Required for a Sacred Lands File Search

Project: Midwestern Placer Regional Sewer Project

County: Placer

USGS Quadrangle

Name: Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn

Township: see map Range: see map Section(s): see map

Company/Firm/Agency:

Stantec Consulting on behalf of the City of Lincoln

Contact Person: Meagan O'Deegan, Cultural Resource Specialist

Street Address: 101 Providence Mine Road, Suite 202

City: Nevada City Zip: 95959

Phone: (530) 470 – 0515

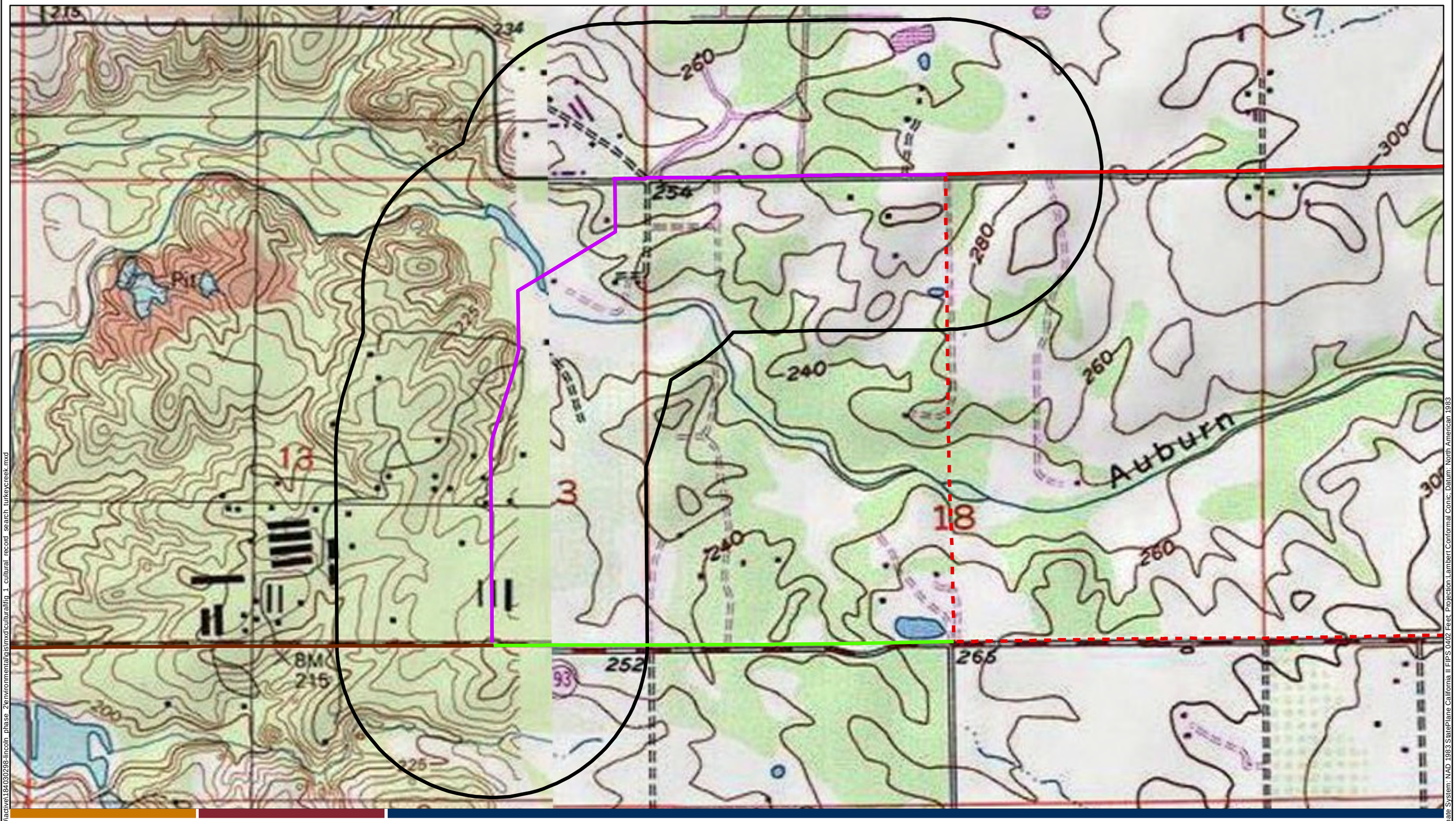
Fax: (530) 470 – 0518

Email: meagan.odeegan@stantec.com

Project Description:

The Proposed Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln.

X Project Location Map is attached



Pressurized Sewer Pipeline
- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Sewer Existing Alignment
- SMD 1 Alternative Alignment
- SMD 1 Preferred Alignment
- turkeycreek
- Quarter Mile Trukey Creek Alginment Buffer
- Lincoln WWTRF Footprint
- POTENTIAL EFFLUENT RECYCLING AREAS

Stantec

0 2,000 Feet

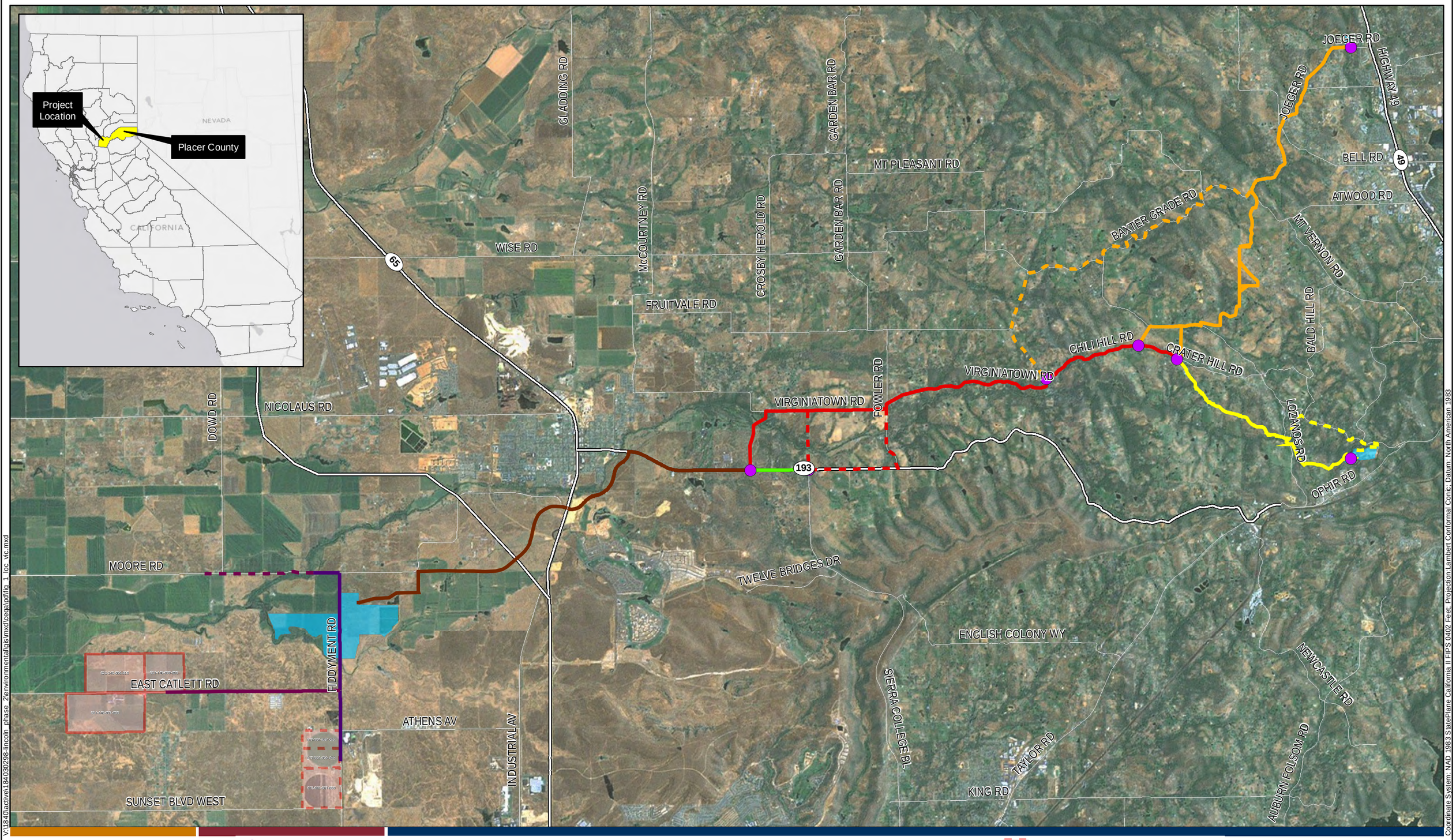
1 inch = 744 feet

Figure 1
Cultural Resource Record Search Area
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County FIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/23/2012

V:\1840\active\184030298-lincoln_phase 2\environmental\gis\mxd\culturalfig 1 cultural record search turkeycreek.mxd

Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet Projection:Lambert Conformal Conic; Datum: North American 1983



Pipe Junction
Auburn Alternative Alignment
Auburn Preferred Alignment
Bickford Pipeline Approved Alignment
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Lincoln Sewer Existing Alignment
SMD 1 Alternative Alignment
SMD 1 Preferred Alignment
Alternative Potential Effluent Recycling Area
Preferred Potential Effluent Recycling Area
Wastewater Treament Facility

0 2 Miles
1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

STATE OF CALIFORNIA Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-6251
Fax (916) 657-5390

August 28, 2012

Meagan O'Deegan
Stantec Consulting
101 Providence Mine Road, Suite 202
Nevada City, CA 95959

Sent by Fax: 530-470-0518
Number of Pages: 2

Re: Midwestern Placer Regional Sewer Project, Placer County.

Dear Ms. O'Deegan:

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Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Placer County
August 28, 2012

Rose Enos
15310 Bancroft Road
Auburn , CA 95603
(530) 878-2378

Maidu
Washoe

Shingle Springs Band of Miwok Indians
Daniel Fonseca
P.O. Box 1340
Shingle Springs , CA 95682
(530) 676-8010
(530) 676-8033 Fax

Miwok
Maidu

April Wallace Moore
19630 Placer Hills Road
Colfax , CA 95713
530-637-4279

Nisenan - So Maidu
Konkow
Washoe

United Auburn Indian Community of the Auburn Rancheria
David Keyser, Chairperson
10720 Indian Hill Road
Auburn , CA 95603
530-883-2390
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Miwok

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Judith Marks
1068 Silverton Circle
Lincoln , Cali 95648
916-670-5714
916-434-7876 - home

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Marcos Guerrero, Tribal Preservation Committee
10720 Indian Hill Road
Auburn , CA 95603
mguerrero@auburnrancheria.com
530-883-2364
530-883-2320 - Fax

Maidu
Miwok

Shingle Springs Band of Miwok Indians
Sam Daniels, Vice Chairperson
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Shingle Springs , CA 95682
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Miwok
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Miwok
Maidu

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This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Midwestern Placer Regional Sewer project, Placer County

MIWOK
MAIDU

United Auburn Indian Community
of the Auburn Rancheria

David Keyser	Kimberly DuBach	Gene Whitehouse	Brenda Adams	Calvin Moman
Chairman	Vice Chair	Secretary	Treasurer	Council Member

June 21, 2012

Bruce Burnworth
City of Lincoln
600 Sixth Street
Lincoln, CA 95648

Subject: Mid-Western Placer Regional Sewer Project, NOP for DEIR

Dear Mr. Burnworth,

Thank you for initiating formal consultations with the United Auburn Indian Community (UAIC) of the Auburn Rancheria. The UAIC would like to consult on the Mid-Western Placer Regional Sewer Project, Notice of Preparation (NOP) for Draft Environmental Impact Report (DEIR), El Dorado County. The UAIC is comprised of Miwok and Nisenan (Southern Maidu) people whose tribal lands are within Placer County and ancestral territory spans into Eldorado, Nevada, Sacramento, Sutter, and Yuba counties. The UAIC is concerned about development within its aboriginal territory that has potential to impact the lifeways, cultural sites, and landscapes that may be of sacred or ceremonial significance. We appreciate the opportunity to comment on this and other projects in your jurisdiction.

We would like to make a few general points for consideration in developing the scope and content of the Mid-Western Placer Regional Sewer Project, NOP for DEIR:

- The UAIC recommends that projects within the Mid-Western Placer Regional Sewer Project, NOP for DEIR jurisdiction be designed to incorporate known cultural sites into open space or other protected areas;

- The UAIC is interested in holding conservation easements for culturally significant prehistoric sites;

- The UAIC would like the opportunity to provide Tribal representatives to monitor projects if excavation and data recovery are required for prehistoric cultural sites, or in cases where ground disturbance is proposed at or near sensitive cultural resources;

- The UAIC is interested in receiving cultural materials from prehistoric sites where excavation and data recovery has been performed;

- The UAIC would like to receive copies of environmental notices and documents for projects within the jurisdiction of the Mid-Western Placer Regional Sewer Project, NOP for DEIR;

- The UAIC would like to receive all confidential cultural and archaeological reports within the jurisdiction of the Mid-Western Placer Regional Sewer Project, NOP for DEIR.

Thank you again for taking these matters into consideration, and for involving the UAIC early in the planning process. We look forward to reviewing the aforementioned documents as requested. Please contact Marcos Guerrero, Tribal Historic Preservation Officer, at (530) 883-2364 or email at mguerrero@auburnrancheria.com if you have any questions.

Sincerely,

David Keyser,
Chairman

CC: Marcos Guerrero, THPO

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Sam Daniels, Vice Chairperson
Shingle Springs Band of Miwok Indians
P.O. Box 1340
Shingle Springs, CA 95682

Reference: Midwestern Placer Regional Sewer Project

Dear Mr. Daniels,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are conducting a cultural resources study in support of the above referenced project. We would like to request any information you may have regarding Native American cultural resources within or adjacent to the project area.

The Midwestern Placer Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln. The overall project area is located in Placer County and can be found on the 7.5 minute U.S.G.S quadrangles of Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn. A map of the project area is attached.

As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

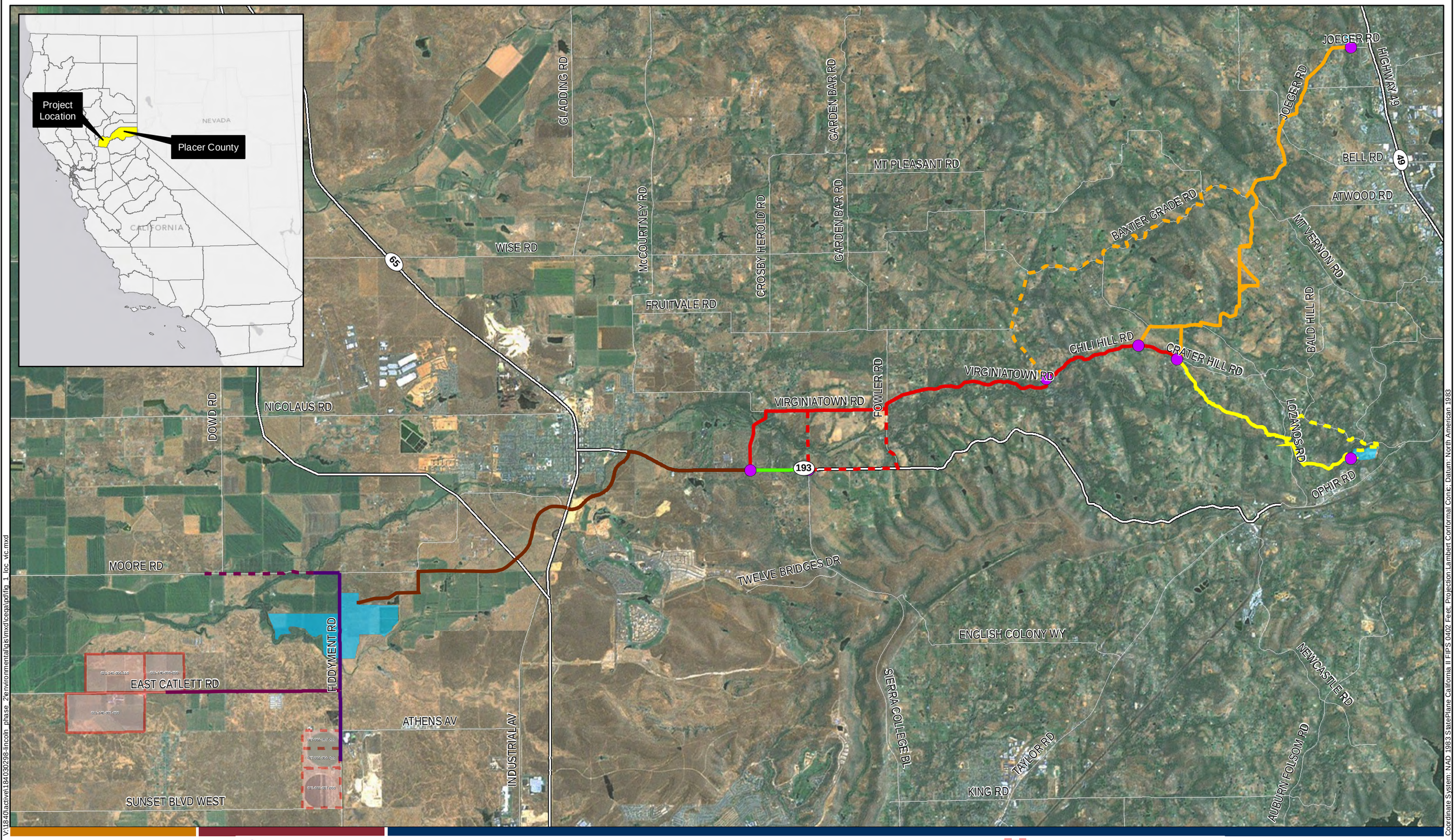
Sincerely,

STANTEC CONSULTING SERVICES INC.

Meagan O'Deegan
Cultural Resource Specialist

Tel: (530) 470-0515
Fax: (530) 470-0518
meagan.odeegan@stantec.com

Attachment: Project Area Map



Pipe Junction
Auburn Alternative Alignment
Auburn Preferred Alignment
Bickford Pipeline Approved Alignment
Common Alternative Alignment
Common Preferred Alignment
Lincoln Effluent Pipeline Alternative Alignment
Lincoln Effluent Pipeline Preferred Alignment
Lincoln Effluent Pipeline Existing Alignment
Lincoln Sewer Existing Alignment
SMD 1 Alternative Alignment
SMD 1 Preferred Alignment
Alternative Potential Effluent Recycling Area
Preferred Potential Effluent Recycling Area
Wastewater Treament Facility

0 2 Miles
1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Sewer Existing Alignment
- SMD 1 Alternative Alignment
- SMD 1 Preferred Alignment
- Wastewater Treament Facility

SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 6,000 Feet

1 inch = 2,613 feet

Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Sewer Existing Alignment
- SMD 1 Alternative Alignment
- SMD 1 Preferred Alignment
- Wastewater Treament Facility

0 3,000 Feet

1 inch = 1,138 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Sewer Existing Alignment
- SMD1 Alternative Alignment
- SMD1 Preferred Alignment

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
Refer to Figure 2b

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING
SEWER

BICKFORD PIPE

PREFERRED FORCE
MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
OAK KNOLL LN
BLUEBERRY LN
WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
MELODY LN
TOPPER LN
BRIDGE LN
PARK LANE CT
BULLARD DR
BLOSSOM TR
JANET LN
JETA CT
WOODMAN LN
CHAPARRAL LN
SHADY OAKS LN
HIDDEN ACRES LN
MIMI RANCH RD
COYOTE LN
LEGION DOWNS RD
FROG POND RD
MANDARIN HILL CT
COLUMBIA DAM RD
OAK VIEW RD
GRAPEVINE RAVINE LN
DEL MONTE LN
POPPY HILL RD
PENNY LN
INDIAN OAKS DR
WHITE NOSE DR
BOLT CT
DUTCH CT
RAVINE CT
SOUTH RAVINE LN
WOOD LAKE DR
SPRING LN
CLARK TUNNEL RD
ARMES LN
SKYVIEW DR
AUTUMN WIND CT
WELCOME RD
FLORAL LN
GOLD CREST CT
WEST CT
WEST VIEW DR
UNCLE JOES LN
SANTOS RD
REAMS RD
BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
LEHI LN
BUTTE VIEW LN
COUNTRY LN

0 4,000 Feet
1 inch = 1,878 feet

Stantec

N

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

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- Wastewater Treament Facility

MOORE RD

DOWD RD

FIDDYMENT RD

EAST CATLETT RD

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

ATHENS AV

SUNSET BLVD WEST

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Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Rose Enos
15310 Bancroft Road
Auburn, CA 95603

Reference: Midwestern Placer Regional Sewer Project

Dear Ms. Enos,

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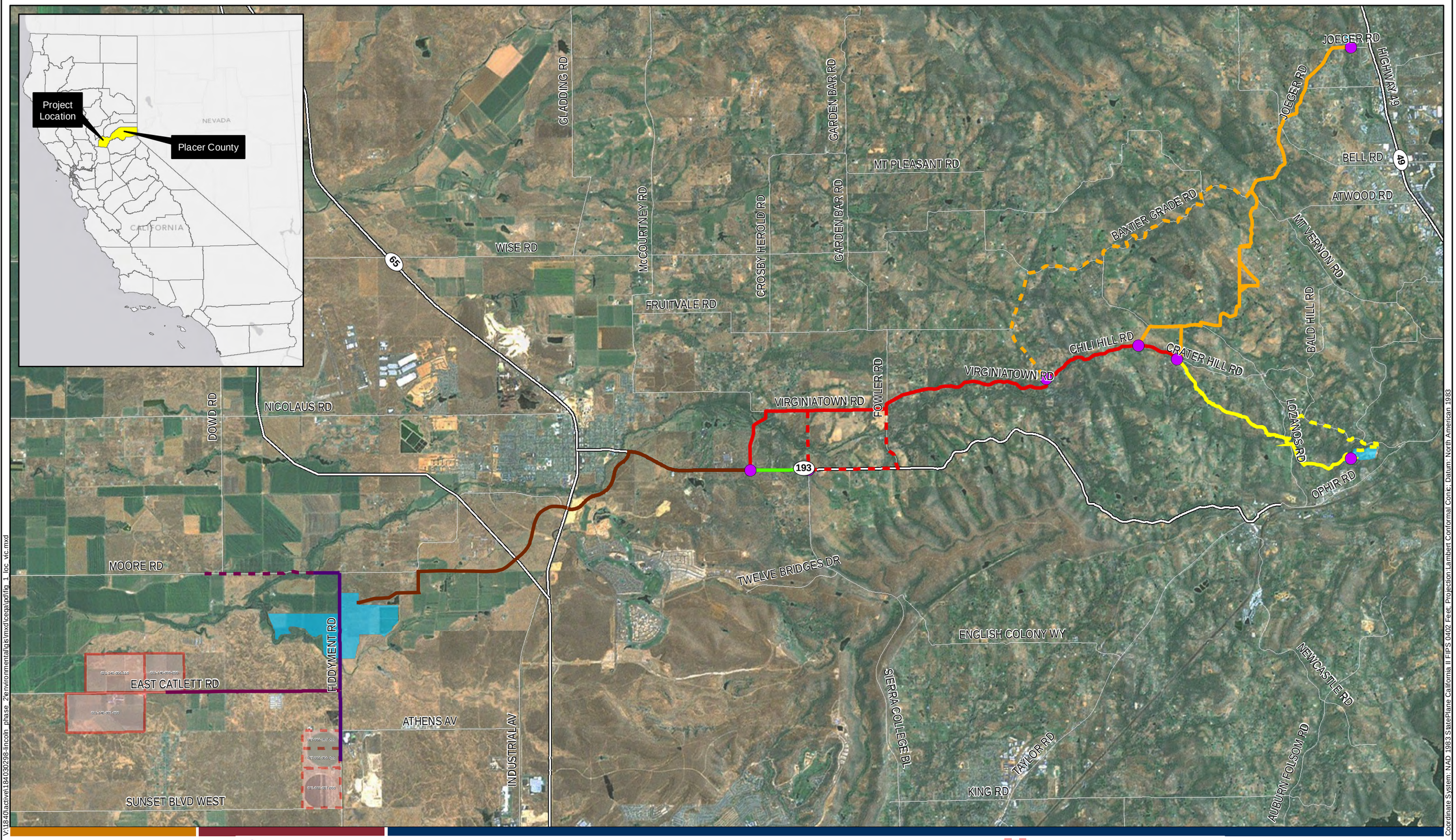
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Lincoln Sewer Existing Alignment
SMD 1 Alternative Alignment
SMD 1 Preferred Alignment
Alternative Potential Effluent Recycling Area
Preferred Potential Effluent Recycling Area
Wastewater Treament Facility

0 2 Miles
1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
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- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
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- SMD 1 Alternative Alignment
- SMD 1 Preferred Alignment
- Wastewater Treament Facility

SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 6,000 Feet

1 inch = 2,613 feet

Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

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0 3,000 Feet

1 inch = 1,138 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

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- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
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- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Sewer Existing Alignment
- SMD1 Alternative Alignment
- SMD1 Preferred Alignment

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
Refer to Figure 2b

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING
SEWER

BICKFORD PIPE

PREFERRED FORCE
MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
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GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
WINDOW LN
OAK KNOLL LN
BLUEBERRY LN
COUNTRY LANE RUN
BLOSSOM TR
PARK LANE CT
BULLARD DR
MELODY LN
TOPPER LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
BRIDGE LN
JANET LN
JETA CT
WOODMAN LN
CHAPARRAL LN
SHADY OAKS LN
HIDDEN ACRES LN
MIMI RANCH RD
COYOTE LN
LEGION DOWNS RD
FROG POND RD
WILLOW VALLEY RD
GOLD CREST CT
VERLOME RD
FLORAL LN
SANTOS RD
UNCLE JOES LN
REAMS RD
WEST CT
WEST VIEW DR
AMBER LN
BUCKBOARD RD
RIDGE RD (NC)
WHITE OAK DR
RAVINE CT
DUTCH CT
BOLT CT
SOUTH RAVINE LN
WOOD LAKE DR
LEHI LN
AUTUMN WIND CT
SPRING LN
ARMES LN
SKYVIEW DR
COUNTRY LN
DEL MONTE LN
GRAPEVINE RAVINE LN
POPPY HILL RD
PENNY LN
INDIAN OAKS DR
CLARK TUNNEL RD
MANDARIN HILL CT
COLUMBA DAM RD
OAK VIEW RD

0 4,000 Feet
1 inch = 1,878 feet

Stantec

N

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

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MOORE RD

DOWD RD

FIDDYMENT RD

EAST CATLETT RD

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

ATHENS AV

SUNSET BLVD WEST

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection: Lambert Conformal Conic. Datum: North American 1983

0 4,000 Feet

1 inch = 1,881 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Nicholas Fonseca, Chairperson
Shingle Springs Band of Miwok Indians
P.O. Box 1340
Shingle Springs, CA 95682

Reference: Midwestern Placer Regional Sewer Project

Dear Mr. Fonseca,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are conducting a cultural resources study in support of the above referenced project. We would like to request any information you may have regarding Native American cultural resources within or adjacent to the project area.

The Midwestern Placer Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln. The overall project area is located in Placer County and can be found on the 7.5 minute U.S.G.S quadrangles of Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn. A map of the project area is attached.

As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

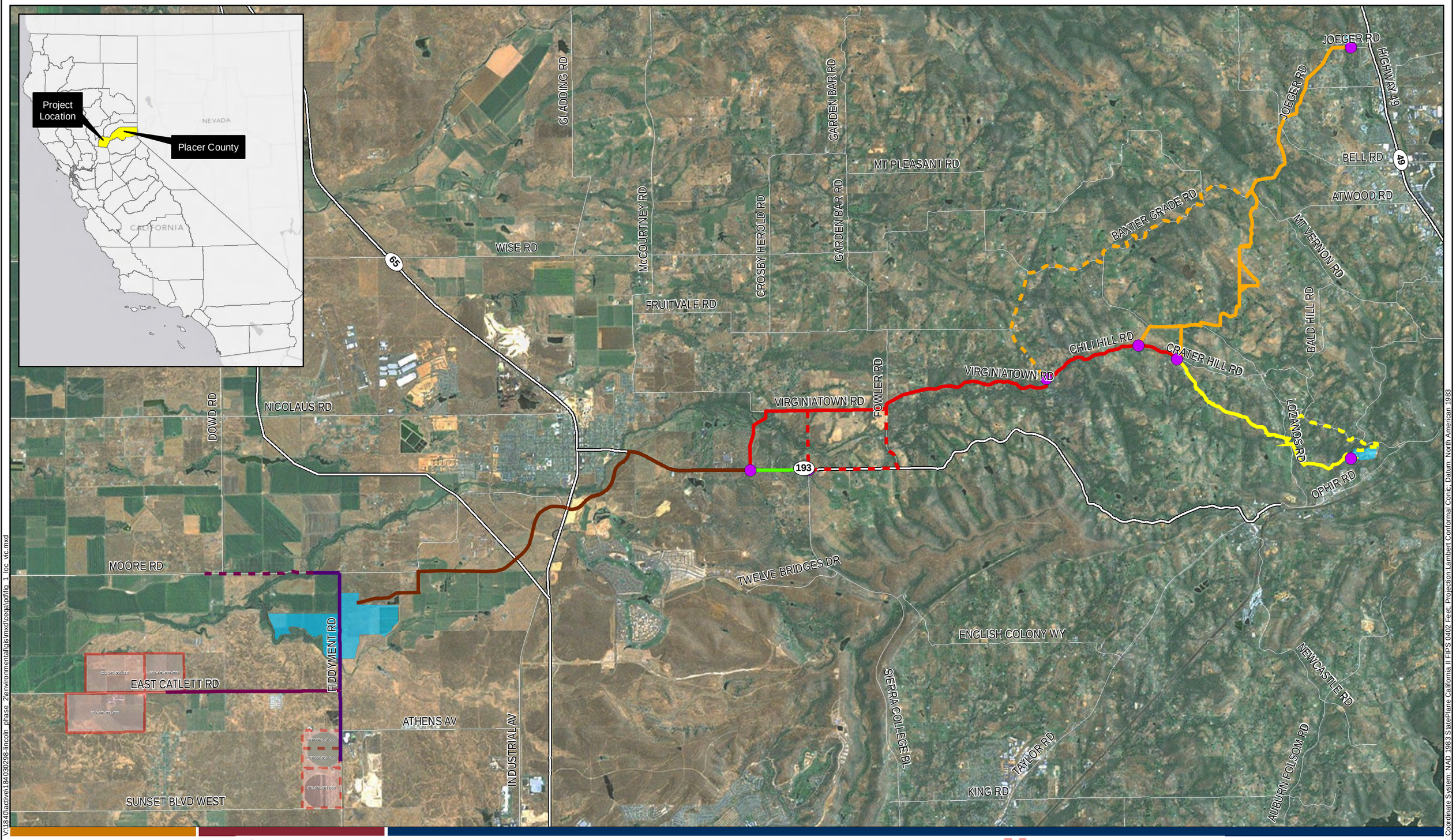
Sincerely,

STANTEC CONSULTING SERVICES INC.

Meagan O'Deegan
Cultural Resource Specialist

Tel: (530) 470-0515
Fax: (530) 470-0518
meagan.odeegan@stantec.com

Attachment: Project Area Map



Pipe Junction
Auburn Alternative Alignment
Auburn Preferred Alignment
Bickford Pipeline Approved Alignment
Common Alternative Alignment
Common Preferred Alignment
Lincoln Effluent Pipeline Alternative Alignment
Lincoln Effluent Pipeline Preferred Alignment
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Alternative Potential Effluent Recycling Area
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1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

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- Wastewater Treament Facility

SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 6,000 Feet

1 inch = 2,613 feet

Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

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Stantec

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

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SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
Refer to Figure 2b

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING
SEWER

BICKFORD PIPE

PREFERRED FORCE
MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
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GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
OAK KNOLL LN
BLUEBERRY LN
WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
MELODY LN
TOPPER LN
BRIDGE LN
PARK LANE CT
BULLARD DR
BLOSSOM TR
JANET LN
JETA CT
WOODMAN LN
CHAPARRAL LN
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SPRING LN
CLARK TUNNEL RD
ARMES LN
SKYVIEW DR
AUTUMN WIND CT
WELCOME RD
FLORAL LN
GOLD CREST CT
WEST CT
WEST VIEW DR
UNCLE JOES LN
SANTOS RD
REAMS RD
BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
LEHI LN
BUTTE VIEW LN
COUNTRY LN

0 4,000 Feet
1 inch = 1,878 feet

Stantec

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Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

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POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

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Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Marcos Guerrero, Tribal Preservation Committee
United Auburn Indian Community of the Auburn Rancheria
10720 Indian Hill Road
Auburn, CA 95603

Reference: Midwestern Placer Regional Sewer Project

Dear Mr. Guerrero,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting a cultural resources study in support of the above referenced project. As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. We received the United Auburn Indian Community of the Auburn Rancheria letter dated June 21, 2012 commenting on the Notice of Preparation for the project Environmental Impact Report. We appreciate your comments and will take them into consideration as the project is developed.

Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File. Updated maps of the project area are attached. As requested, we will send you copies of the project environmental, cultural, and archaeological reports once they are complete.

At this time, if you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any additional comments or questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

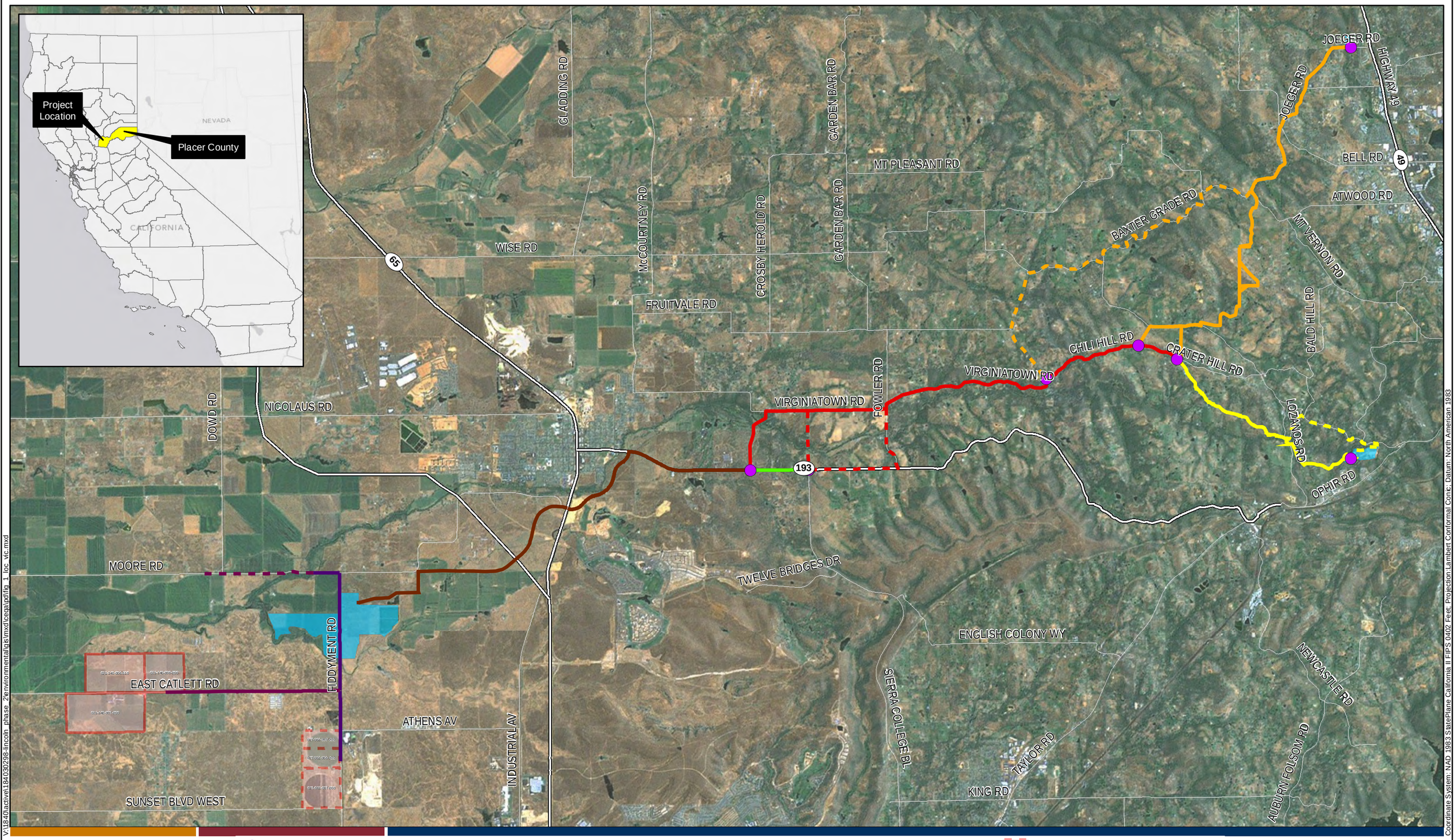
Sincerely,

STANTEC CONSULTING SERVICES INC.

Meagan O'Deegan
Cultural Resource Specialist

Tel: (530) 470-0515
Fax: (530) 470-0518
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Attachment: Project Area Map



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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

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ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

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Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

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SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
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PIPE JUNCTION

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ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
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GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
OAK KNOLL LN
BLUEBERRY LN
WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
MELODY LN
TOPPER LN
BRIDGE LN
PARK LANE CT
BULLARD DR
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JETA CT
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CHAPARRAL LN
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GRAPEVINE RAVINE LN
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SPRING LN
CLARK TUNNEL RD
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SKYVIEW DR
AUTUMN WIND CT
WELCOME RD
FLORAL LN
GOLD CREST CT
WEST CT
WEST VIEW DR
UNCLE JOES LN
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Stantec

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Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

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MOORE RD

DOWD RD

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LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

ATHENS AV

SUNSET BLVD WEST

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection: Lambert Conformal Conic. Datum: North American 1983

0 4,000 Feet

1 inch = 1,881 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Judith Marks
Colfax-Todds Valley Consolidated Tribe
1068 Silverton Circle
Lincoln, CA 95648

Reference: Midwestern Placer Regional Sewer Project

Dear Ms. Marks,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are conducting a cultural resources study in support of the above referenced project. We would like to request any information you may have regarding Native American cultural resources within or adjacent to the project area.

The Midwestern Placer Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln. The overall project area is located in Placer County and can be found on the 7.5 minute U.S.G.S quadrangles of Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn. A map of the project area is attached.

As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

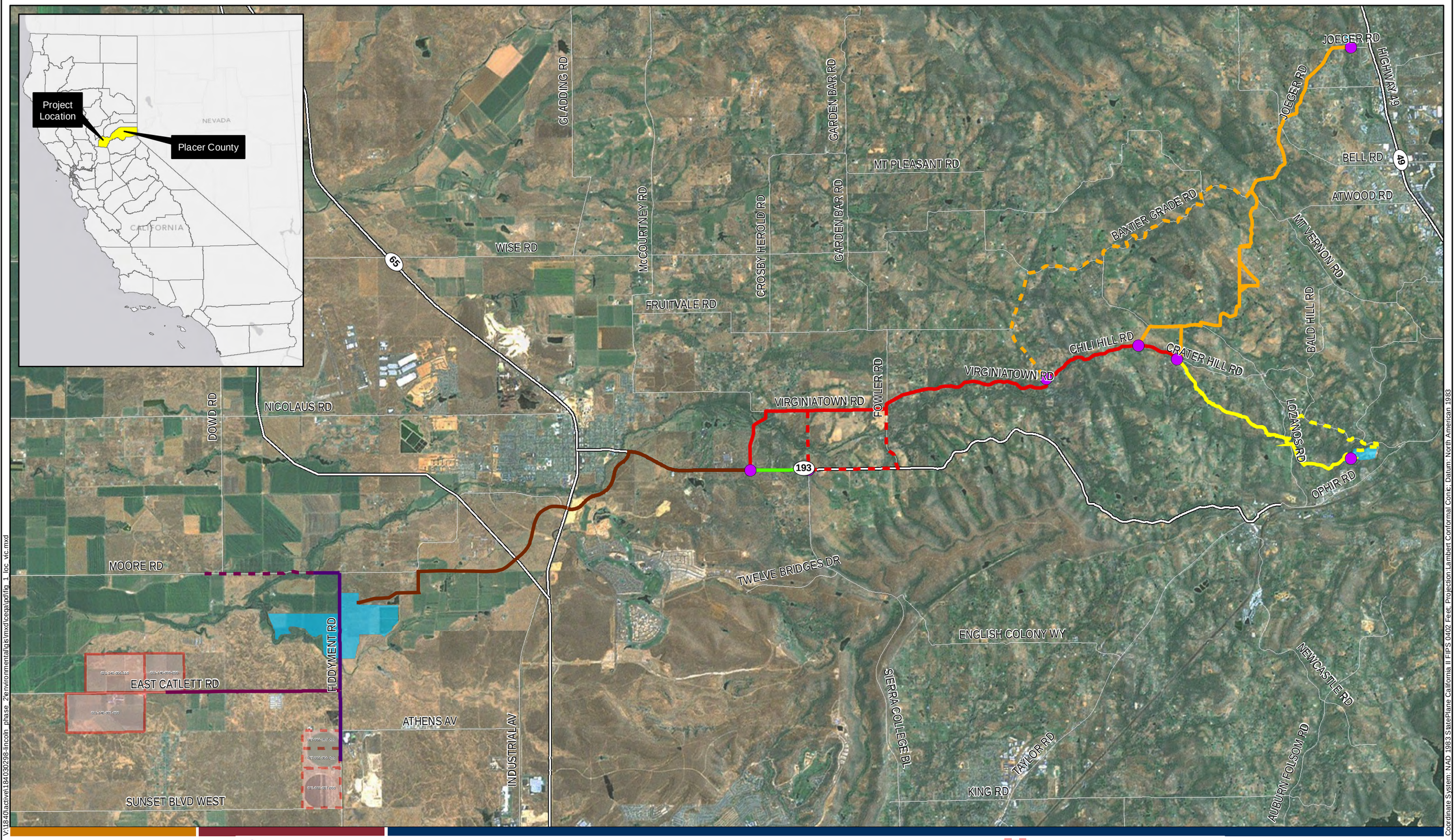
Sincerely,

STANTEC CONSULTING SERVICES INC.

Meagan O'Deegan
Cultural Resource Specialist

Tel: (530) 470-0515
Fax: (530) 470-0518
meagan.odeegan@stantec.com

Attachment: Project Area Map



Pipe Junction
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Auburn Preferred Alignment
Bickford Pipeline Approved Alignment
Common Alternative Alignment
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Lincoln Effluent Pipeline Alternative Alignment
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Alternative Potential Effluent Recycling Area
Preferred Potential Effluent Recycling Area
Wastewater Treament Facility

0 2 Miles
1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 6,000 Feet

1 inch = 2,613 feet

Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

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Auburn Pipeline Route Preferred Alternative

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

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SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
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VIRGINIATOWN RD
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COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
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WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
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MELODY LN
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BULLARD DR
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JETA CT
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ARMES LN
SKYVIEW DR
AUTUMN WIND CT
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GOLD CREST CT
WEST CT
WEST VIEW DR
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BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
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BUTTE VIEW LN
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Stantec

N

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: David Keyser, Chairperson
United Auburn Indian Community of the Auburn Rancheria
10720 Indian Hill Road
Auburn, CA 95603

Reference: Midwestern Placer Regional Sewer Project

Dear Mr. Keyser,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting a cultural resources study in support of the above referenced project. As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. We received the United Auburn Indian Community of the Auburn Rancheria letter dated June 21, 2012 commenting on the Notice of Preparation for the project Environmental Impact Report. We appreciate your comments and will take them into consideration as the project is developed.

Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File. Updated maps of the project area are attached. As requested, we will send you copies of the project environmental, cultural, and archaeological reports once they are complete.

At this time, if you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any additional comments or questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

Sincerely,

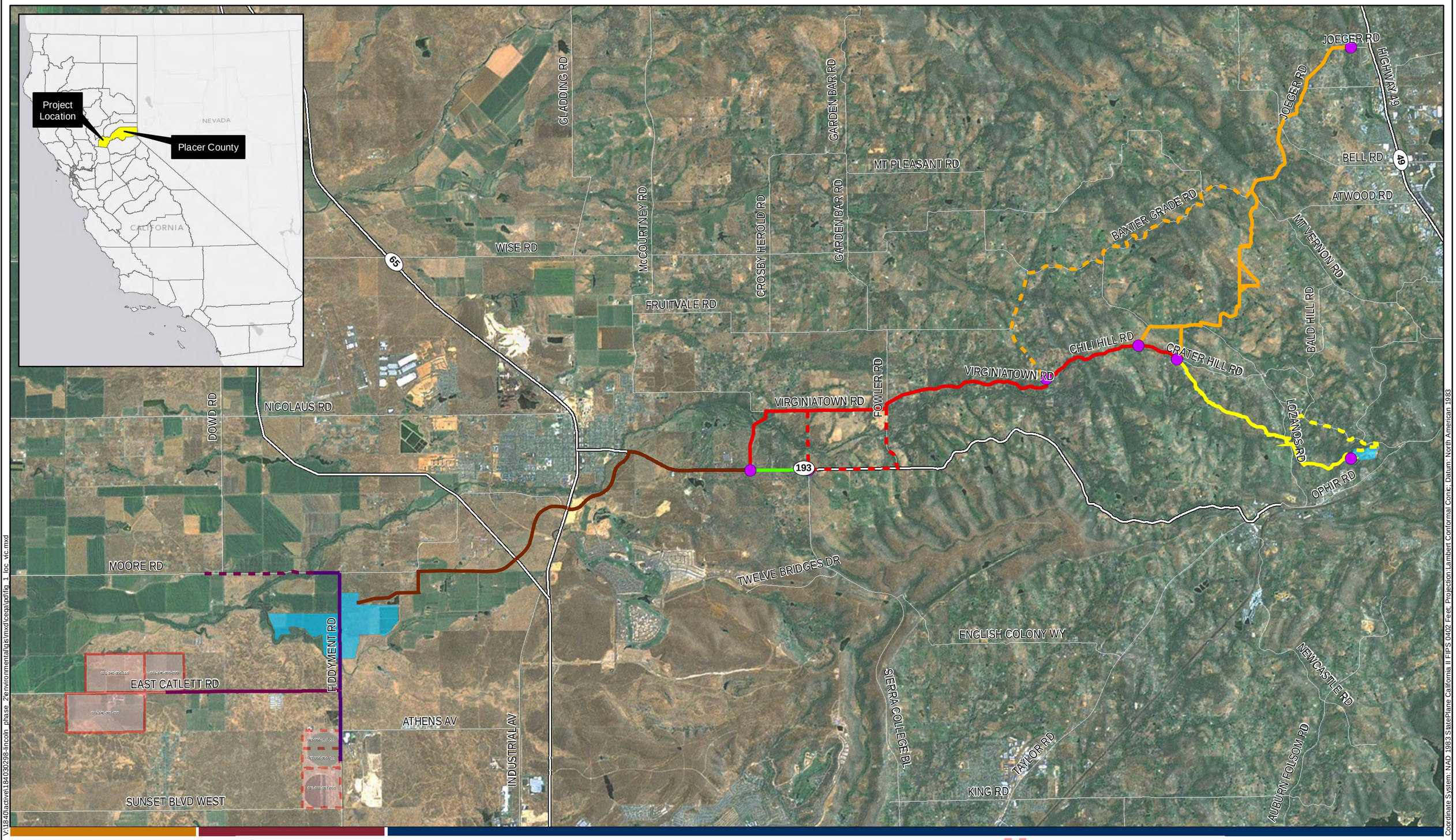
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ALTERNATIVE
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PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
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0 6,000 Feet

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Stantec

N

Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

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Figure 2b
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Midwestern Placer Regional Sewer

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FRUITVALE RD
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VIRGINIATOWN RD
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PARK LANE CT
BULLARD DR
BLOSSOM TR
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WEST CT
WEST VIEW DR
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BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
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Stantec

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Figure 2c
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Midwestern Placer Regional Sewer

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Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: Daniel Fonseca
Shingle Springs Band of Miwok Indians
P.O. Box 1340
Shingle Springs, CA 95682

Reference: Midwestern Placer Regional Sewer Project

Dear Mr. Fonseca,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are conducting a cultural resources study in support of the above referenced project. We would like to request any information you may have regarding Native American cultural resources within or adjacent to the project area.

The Midwestern Placer Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln. The overall project area is located in Placer County and can be found on the 7.5 minute U.S.G.S quadrangles of Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn. A map of the project area is attached.

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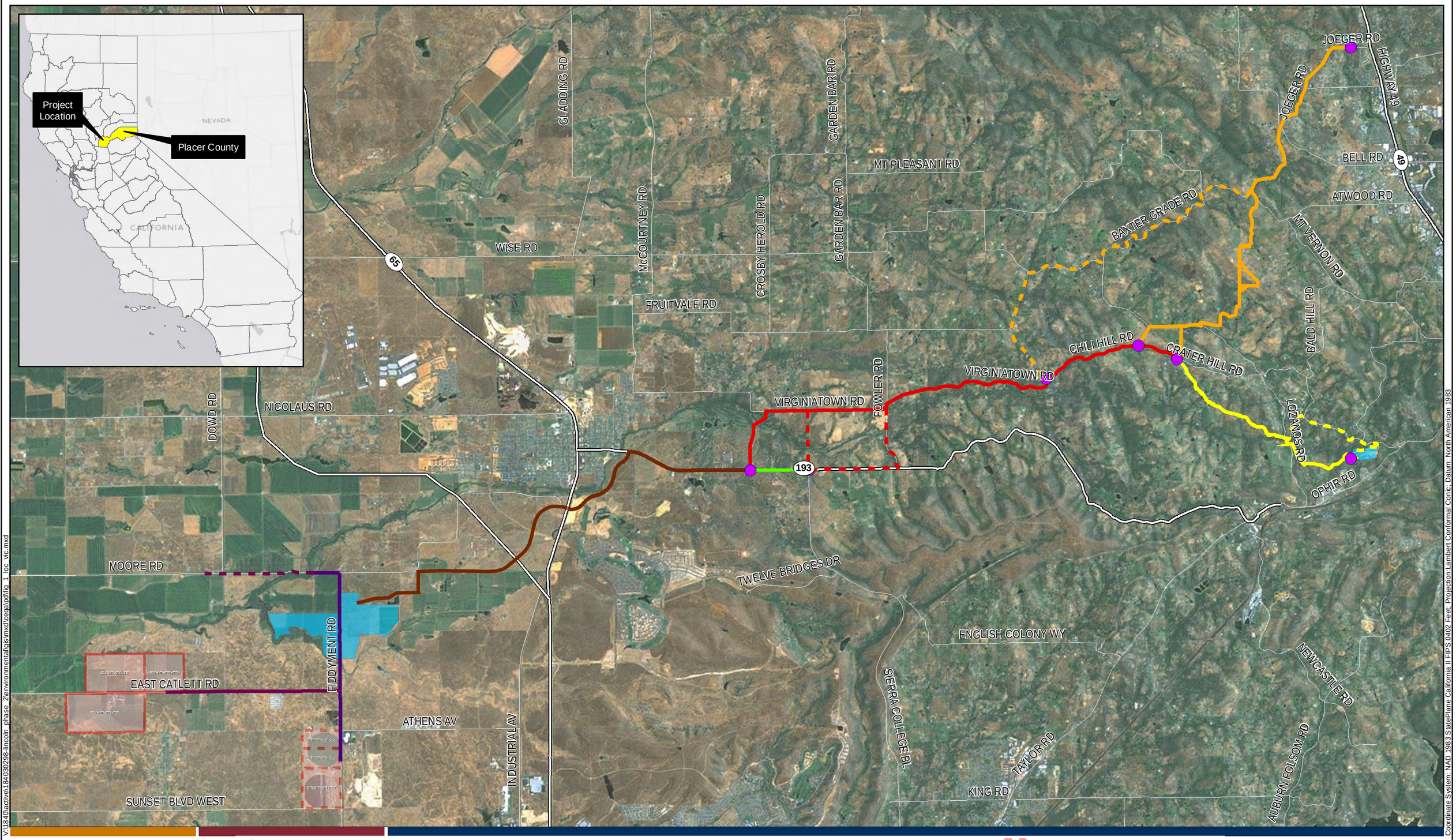
Sincerely,

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Meagan O'Deegan
Cultural Resource Specialist

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ALTERNATIVE PIPE JUNCTION

Auburn Pipeline Route Alternative Alignment

Auburn Pipeline Route Preferred Alternative

AUBURN WWTP NEW PUMP STATION

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
- Lincoln Effluent Pipeline Existing Alignment
- Lincoln Sewer Existing Alignment
- SMD 1 Alternative Alignment
- SMD 1 Preferred Alignment
- Wastewater Treament Facility

0 3,000 Feet

1 inch = 1,138 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

- Auburn Alternative Alignment
- Auburn Preferred Alignment
- Bickford Pipeline Approved Alignment
- Common Alternative Alignment
- Common Preferred Alignment
- Lincoln Effluent Pipeline Alternative Alignment
- Lincoln Effluent Pipeline Preferred Alignment
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- Lincoln Sewer Existing Alignment
- SMD1 Alternative Alignment
- SMD1 Preferred Alignment

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
Refer to Figure 2b

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING
SEWER

BICKFORD PIPE

PREFERRED FORCE
MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
OAK KNOLL LN
BLUEBERRY LN
WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
MELODY LN
TOPPER LN
BRIDGE LN
PARK LANE CT
BULLARD DR
BLOSSOM TR
JANET LN
JETA CT
WOODMAN LN
CHAPARRAL LN
SHADY OAKS LN
HIDDEN ACRES LN
MIMI RANCH RD
COYOTE LN
LEGION DOWNS RD
FROG POND RD
MANDARIN HILL CT
COLUMBIA DAM RD
OAK VIEW RD
GRAPEVINE RAVINE LN
DEL MONTE LN
POPPY HILL RD
PENNY LN
INDIAN OAKS DR
WHITE NOSE DR
BOLT CT
DUTCH CT
RAVINE CT
SOUTH RAVINE LN
WOOD LAKE DR
SPRING LN
CLARK TUNNEL RD
ARMES LN
SKYVIEW DR
AUTUMN WIND CT
WELCOME RD
FLORAL LN
GOLD CREST CT
WEST CT
WEST VIEW DR
UNCLE JOES LN
SANTOS RD
REAMS RD
BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
LEHI LN
BUTTE VIEW LN
COUNTRY LN

0 4,000 Feet
1 inch = 1,878 feet

Stantec

N

Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

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- Extra Work Area/Staging Area
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MOORE RD

DOWD RD

FIDDYMENT RD

EAST CATLETT RD

LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

ATHENS AV

SUNSET BLVD WEST

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection: Lambert Conformal Conic. Datum: North American 1983

0 4,000 Feet

1 inch = 1,881 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

Stantec Consulting Services Inc.
101 Providence Mine Road Suite 202
Nevada City CA 95959
Tel: (530) 470-0515
Fax: (530) 470-0518

August 24, 2012
File: 184030298

Attention: April Wallace Moore
19630 Placer Hills Road
Colfax, CA 95713

Reference: Midwestern Placer Regional Sewer Project

Dear Ms. Wallace Moore,

Stantec Consulting and Far Western Anthropological Research Group, Inc., are conducting a cultural resources study in support of the above referenced project. We would like to request any information you may have regarding Native American cultural resources within or adjacent to the project area.

The Midwestern Placer Regional Sewer Project will consolidate wastewater treatment from the SMD1 service area, the City of Auburn, and the City of Lincoln. The overall project area is located in Placer County and can be found on the 7.5 minute U.S.G.S quadrangles of Pleasant Grove, Roseville, Lincoln, Gold Hill, and Auburn. A map of the project area is attached.

As Federal funds and permits are involved, the project will comply with Section 106 of the National Historic Preservation Act. Stantec Consulting and Far Western Anthropological Research Group, Inc., are currently conducting archaeological investigations including a prefield records search and intensive pedestrian survey of the project area. In response to our inquiry, the Native American Heritage Commission stated that no resources are recorded in the Sacred Lands File.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com. Thank you for your assistance in this matter.

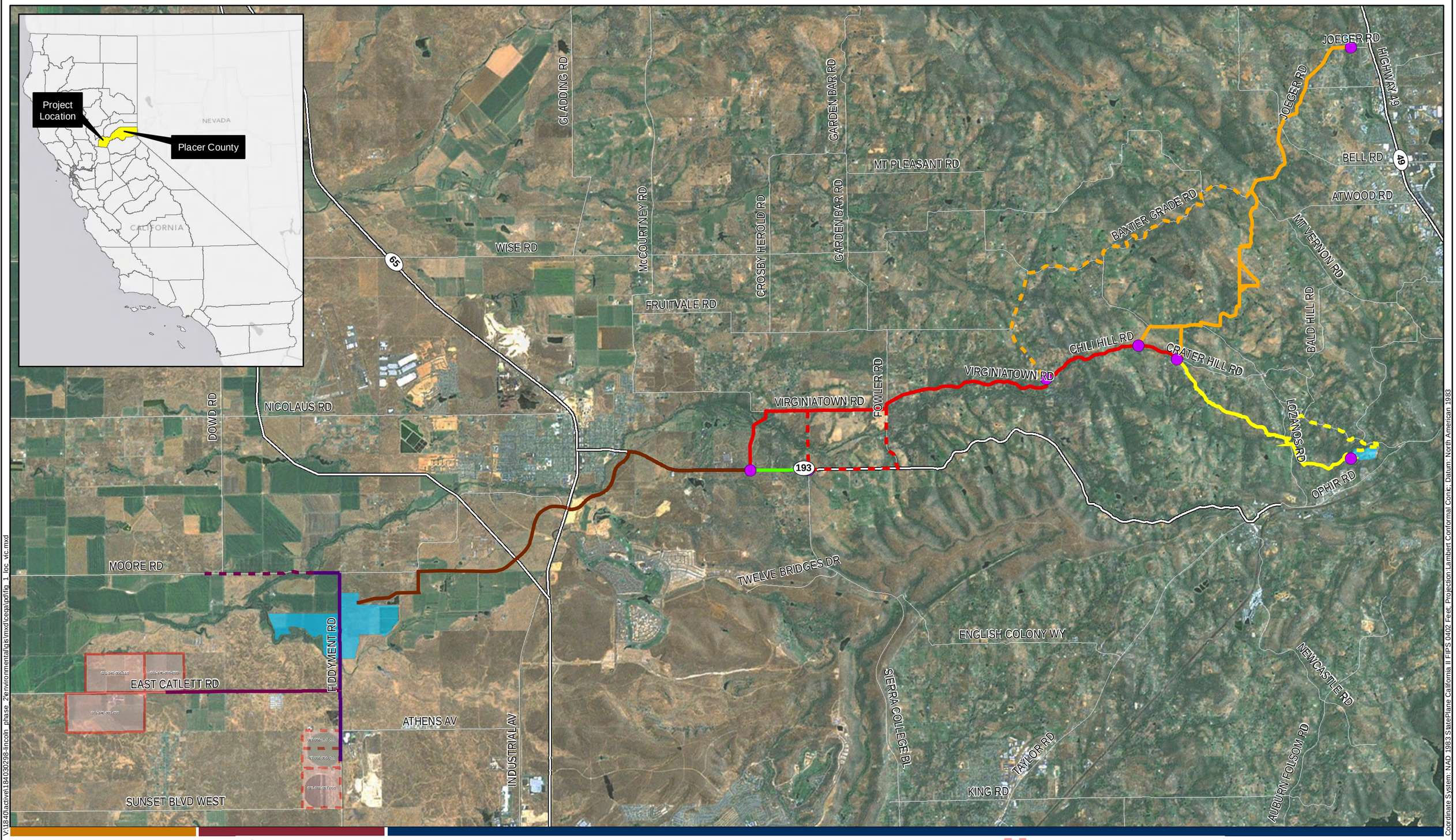
Sincerely,

STANTEC CONSULTING SERVICES INC.

Meagan O'Deegan
Cultural Resource Specialist

Tel: (530) 470-0515
Fax: (530) 470-0518
meagan.odeegan@stantec.com

Attachment: Project Area Map



Pipe Junction
Auburn Alternative Alignment
Auburn Preferred Alignment
Bickford Pipeline Approved Alignment
Common Alternative Alignment
Common Preferred Alignment
Lincoln Effluent Pipeline Alternative Alignment
Lincoln Effluent Pipeline Preferred Alignment
Lincoln Effluent Pipeline Existing Alignment
Lincoln Sewer Existing Alignment
SMD 1 Alternative Alignment
SMD 1 Preferred Alignment
Alternative Potential Effluent Recycling Area
Preferred Potential Effluent Recycling Area
Wastewater Treament Facility

0 2 Miles
1 inch = 5,896 feet
Stantec

Figure 1
Location and Vicinity
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection: Lambert Conformal Conic; Datum: North American 1983

Pressurized Sewer Pipeline

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SMD1 WWTP
NEW PUMP STATION

SMD1 Pipeline Route
Alternative Alignment

SMD1 Pipeline Route
Preferred Alternative

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

ALTERNATIVE
PIPE JUNCTION

Common Pipeline Route
Refer to Figure 2c

Auburn Pipeline Route
Refer to Figure 2b

0 6,000 Feet

1 inch = 2,613 feet

Stantec

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Figure 2a
SMD1 Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datu

ALTERNATIVE PIPE JUNCTION

SMD1 Pipeline Route Refer to Figure 2a

ALTERNATIVE PIPE JUNCTION

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Auburn Pipeline Route Preferred Alternative

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- Wastewater Treament Facility

0 3,000 Feet

1 inch = 1,138 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection:Lambert Conformal Conic. Datum: North American 1983

Figure 2b
Auburn Regional Pipeline
Midwestern Placer Regional Sewer

Pressurized Sewer Pipeline

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SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

SMD1 Pipeline Route
Refer to Figure 2a

PIPE JUNCTION

PIPE JUNCTION

Auburn Pipeline Route
Refer to Figure 2b

Common Pipeline Route
Alternative Alignment

Common Pipeline Route
Preferred Alternative

EXISTING
SEWER

BICKFORD PIPE

PREFERRED FORCE
MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

FORCE MAIN / GRAVITY
TRANSITION STRUCTURE
ENERGY DISSIPATION AND
ODOR CONTROL

GARDEN BAR RD
FOWLER RD
FRUITVALE RD
WISE RD
CHILI HILL RD
VIRGINIATOWN RD
SIERRA COLLEGE BL
HIGHWAY 193
SCHINDLER RD
GOLD HILL RD
COUNTRY LN
LORETTA LN
POWER RD
DUAL RD
OAK KNOLL LN
BLUEBERRY LN
WINDOW LN
IRONWOOD LN
DANIEL LN
BUSTIC LN
MONUMENT PL
VIRGINIA LN
MELODY LN
TOPPER LN
BRIDGE LN
PARK LANE CT
BULLARD DR
BLOSSOM TR
JANET LN
JETA CT
WOODMAN LN
CHAPARRAL LN
SHADY OAKS LN
HIDDEN ACRES LN
MIMI RANCH RD
COYOTE LN
LEGION DOWNS RD
FROG POND RD
MANDARIN HILL CT
COLUMBIA DAM RD
OAK VIEW RD
GRAPEVINE RAVINE LN
DEL MONTE LN
POPPY HILL RD
PENNY LN
INDIAN OAKS DR
WHITE NOSE DR
BOLT CT
DUTCH CT
RAVINE CT
SOUTH RAVINE LN
WOOD LAKE DR
SPRING LN
CLARK TUNNEL RD
ARMES LN
SKYVIEW DR
AUTUMN WIND CT
WELCOME RD
FLORAL LN
GOLD CREST CT
WEST CT
WEST VIEW DR
UNCLE JOES LN
SANTOS RD
REAMS RD
BUCKBOARD RD
AMBER LN
RIDGE RD (NC)
LEHI LN
BUTTE VIEW LN
COUNTRY LN

0 4,000 Feet
1 inch = 1,878 feet

Stantec

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Figure 2c
Common Regional Pipeline
Midwestern Placer Regional Sewer

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet; Projection:Lambert Conformal Conic; Datum: North American 1983

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MOORE RD

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LINCOLN WWTRF EXPANSION

POSSIBLE EFFLUENT RECYCLING PIPE EXTENTIONS IN EXISTING ROADWAYS, POSSIBLE LAND AREA IMPROVEMENTS TO BE ADJACENT

ATHENS AV

SUNSET BLVD WEST

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Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet. Projection: Lambert Conformal Conic. Datum: North American 1983

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1 inch = 1,881 feet

Stantec

Project: 184030298; Sources: Stantec 2012, ECO:LOGIC 2008, ESRI 2011, Placer County GIS 2012, City of Lincoln GIS 2012; Created By: K.Smith; Updated: 8/21/2012

Figure 2d
Lincoln WWTRF Expansion and Effluent Recycling Options
Midwestern Placer Regional Sewer

From:	O"Deegan, Meagan
To:	nfonseca@ssband.org
Subject:	Cultural Resource Information Request for the Midwestern Placer Regional Sewer project
Date:	Monday, August 27, 2012 2:36:00 PM
Attachments:	let_n_fonseca_20120824.pdf
Importance:	High

Dear Mr. Fonseca,

Please see the attached letter and maps regarding the Midwestern Placer Regional Sewer project. A hard copy of the letter and maps were also mailed to you via U.S. Postal Service on 8/24/2012.

The Native American Heritage Commission included you as an individual/organization who may have knowledge of cultural resources in the project area.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com.

Thank you for your assistance in this matter.

Sincerely,
Meagan O'Deegan

Meagan O'Deegan
Cultural Resource Specialist
Stantec
101 Providence Mine Road Suite 202
Nevada City CA 95959
Ph: (530) 470-0515
Meagan.ODeegan@stantec.com
stantec.com

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Please consider the environment before printing this email.

From:	O"Deegan, Meagan
To:	Marcos Guerrero (mguerrero@auburnrancheria.com)
Subject:	Cultural Resource Information Request for the Midwestern Placer Regional Sewer project
Date:	Monday, August 27, 2012 2:20:00 PM
Attachments:	let_m_guerrero_20120824.pdf
Importance:	High

Dear Mr. Guerrero,

Please see the attached letter and maps in response to the United Auburn Indian Community of the Auburn Rancheria letter regarding the Midwestern Placer Regional Sewer project.

A hard copy of the letter and maps was also mailed to you via U.S. Postal Service on 8/24/2012.

If you have any information regarding Native American cultural resources within or adjacent to the project area or if you have any questions, please feel free to contact me directly via telephone (530) 470-0515 or e-mail at meagan.odeegan@stantec.com.

Thank you for your assistance in this matter.

Sincerely,
Meagan O'Deegan

Meagan O'Deegan
Cultural Resource Specialist
Stantec
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Nevada City CA 95959
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Please consider the environment before printing this email.

SHINGLE SPRINGS RANCHERIA
P.O. BOX 1340; SHINGLE SPRINGS, CA 95682
(530) 676-8010; FAX (530) 676-3582

September 19, 2012

Stantec Consulting Services, Inc.
101 Providence Mine Road, Suite 202
Nevada City CA, 95959

RE: Midwestern Placer Regional Sewer Project

Dear Meagan O'Deegan

Thank you for your letter dated August 24, 2012 seeking information regarding the proposed Midwestern Placer Regional Sewer Project that is located in Placer County. Based on the information provided, the Shingle Springs Band of Miwok Indians not aware of any known cultural resources on this site. However, SSR would like to have continued consultation through updates, as the project progresses this will foster a greater communication between the Tribe and your agency.

SSR would also like to request any and all completed record searches and or surveys that were done in or around the project area up to and including environmental, archaeological and cultural reports.

If during the progress of the project new information or human remains are found we would like to be able to go over our process with you that we currently have in place to protect such important and sacred artifacts (especially near rivers and streams).

Please contact the following individuals if such finds are made:

Mr. Daniel Fonseca
Office: (530) 676-8010 dfonseca@ssband.org

And copy all communications to:
Angela Rivera, Administrative Assistant anrivera@ssband.org Office: (530) 698-1557

Thank you for providing us with this notice and opportunity to comment.

Sincerely,

Daniel Fonseca
Cultural Resource Director
Tribal Historic Preservation Officer (THPO)
Most Likely Descendent (MLD)