

APPENDIX D

AIR QUALITY AND GREENHOUSE GAS EMISSION CALCULATIONS

**PG&E R-1385 Sacramento River Crossing Replacement Project
Phase 1: Air Pollutant and Greenhouse Gas Emissions Totals**

Task	Average Pounds/Day					Total English Tons					Metric Tons			
	NOx	ROG	PM10*	PM2.5*	CO	NOx	ROG	PM10	PM2.5	CO	CO2	CH4	N2O	CO2E
Mobilization and Excavation	19.31	1.92	0.59	0.57	13.30	0.033	0.003	0.001	0.001	0.024	11.3	0.0005	0.0004	11.4
Pipe String Welding	21.27	2.03	0.84	0.78	13.45	0.035	0.004	0.001	0.001	0.028	4.8	0.0002	0.0001	4.8
HDD Operations	32.53	3.30	1.20	1.15	26.87	0.314	0.038	0.011	0.011	0.382	147.9	0.0074	0.0033	149.0
Pipe String Testing, Tie-in, Meridian Road Pipe Removal	11.28	2.73	0.96	0.79	66.04	0.014	0.004	0.001	0.001	0.097	4.2	0.0002	0.0002	4.2
Demobilization and Restoration	10.08	0.95	0.26	0.26	7.14	0.021	0.002	0.001	0.001	0.014	9.2	0.0003	0.0005	9.3
Total/Peak Day			70.28			0.416	0.051	0.015	0.015	0.545	177.2	0.009	0.004	178.7
								1.735	1.735					

* Includes fugitive dust

Fugitive Dust: **69.08 lb/day**
1.72 total tons

**PG&E R-1385 Sacramento River Crossing Replacement Project
Phase 2: Air Pollutant and Greenhouse Gas Emissions Totals**

Task	Average Pounds/Day					Total English Tons					Metric Tons			
	NOx	ROG	PM10	PM2.5	CO	NOx	ROG	PM10	PM2.5	CO	CO2	CH4	N2O	CO2E
Phase 2: Mobilization, Piggging and Flushing	3.64	0.66	0.25	0.20	16.25	0.009	0.001	0.001	0.000	0.033	4.8	0.0001	0.0004	4.9
Phase 2: Excavation	19.34	2.04	0.63	0.61	14.12	0.104	0.011	0.003	0.003	0.081	32.1	0.0017	0.0007	32.3
Phase 2: Backfill, Restoration and Onshore Demobilization	8.05	0.65	0.19	0.19	4.88	0.017	0.002	0.000	0.000	0.012	7.2	0.0002	0.0004	7.3
Phase 2: Marine Decommissioning and Demobilization	40.71	25.69	9.31	9.22	517.01	0.217	0.069	0.025	0.025	1.121	25.0	0.0012	0.0010	25.3
Phase 2: Marine Survey	17.31	1.35	0.86	0.86	5.02	0.017	0.001	0.001	0.001	0.005	1.0	0.0000	0.0000	1.0
Total						0.364	0.085	0.030	0.030	1.252	70.1	0.003	0.003	70.9