Table 4-9 Estimated Loads

Group	Parameter	Units	Ballona Creek at Sawtelle Blvd. S01 2013-14Event08 10/15/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event14 3/5/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event09 11/21/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event10 11/29/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event12 12/19/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event13 2/27/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event15 4/1/2014
			Dry		Wet				
Bacteria	E. Coli	MPN	1.421E+11	1.832E+08	3.301E+14	1.790E+14	5.931E+13	7.848E+14	5.058E+14
Bacteria	Fecal Coliform	MPN	2.095E+11	3.664E+09	3.579E+15	9.392E+14	6.749E+13	2.114E+15	1.822E+15
Bacteria	Fecal Enterococcus	MPN	5.586E+10	3.664E+09	6.443E+15	9.392E+14	4.628E+15	4.353E+15	2.358E+15
Bacteria	Fecal Streptococcus	MPN	1.606E+11	3.664E+09	6.443E+15	9.392E+14	4.628E+15	1.990E+16	2.572E+16
Bacteria	Total Coliform	MPN	1.676E+14	3.664E+09	3.579E+15	2.935E+15	3.278E+15	1.990E+16	5.358E+15
Chlorinated Pesticides	4-4'-DDD	pounds	0.0008	0.0004	0.0087	0.0071	NS	0.1508	0.0130
Chlorinated Pesticides	4-4'-DDE	pounds	0.0003	0.0002	0.0032	0.0026	NS	0.0548	0.0047
Chlorinated Pesticides	4-4'-DDT	pounds	0.0008	0.0004	0.0079	0.0065	NS	0.1371	0.0118
Chlorinated Pesticides	Aldrin	pounds	0.0003	0.0002	0.0032	0.0026	NS	0.0548	0.0047
Chlorinated Pesticides	Dieldrin	pounds	0.0002	0.0001	0.0016	0.0013	NS	0.0274	0.0024
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0008	0.0004	0.0079	0.0065	NS	0.1371	0.0118
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0003	0.0002	0.0032	0.0026	NS	0.0548	0.0047
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0038	0.0020	0.0395	0.0324	NS	0.6855	0.0591
Chlorinated Pesticides	Endrin	pounds	0.0005	0.0002	0.0047	0.0039	NS	0.0823	0.0071
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0008	0.0004	0.0079	0.0065	NS	0.1371	0.0118
Chlorinated Pesticides	Heptachlor	pounds	0.0002	0.0001	0.0024	0.0019	NS	0.0411	0.0035
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0008	0.0004	0.0079	0.0065	NS	0.1371	0.0118
Chlorinated Pesticides	Methoxychlor	pounds	0.0385	0.0202	0.3946	0.3235	NS	6.8547	0.5906
Chlorinated Pesticides	Toxaphene	pounds	0.0185	0.0097	0.1894	0.1553	NS	3.2903	0.2835
Chlorinated Pesticides	alpha-BHC	pounds	0.0008	0.0004	0.0079	0.0065	NS	0.1371	0.0118
Chlorinated Pesticides	alpha-chlordane	pounds	0.0025	0.0013	0.0260	0.0214	NS	0.4524	0.0390
Chlorinated Pesticides	beta-BHC	pounds	0.0004	0.0002	0.0039	0.0032	NS	0.0685	0.0059
Chlorinated Pesticides	delta-BHC	pounds	0.0004	0.0002	0.0039	0.0032	NS	0.0685	0.0059
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0003	0.0002	0.0032	0.0026	NS	0.0548	0.0047
Chlorinated Pesticides	gamma-chlordane	pounds	0.0025	0.0013	0.0260	0.0214	NS	0.4524	0.0390
Conventionals	Cyanide	pounds	0.3849	0.2019	3.9456	3.2354	1.0627	68.5473	5.9061
Conventionals	Dissolved Oxygen	pounds	1,970.5519	550.0158	14,851.2682	11,569.8126	3,957.5299	268,705.2830	10,914.5458
Conventionals	Oil and Grease	pounds	110.8435	58.1515	1,136.3351	8,800.3049	3,328.4059	19,741.6126	1,700.9682
General	Alkalinity as CaCO3	pounds	39,718.9367	20,272.2427	235,158.2321	104,827.1614	NS	795,148.2864	214,983.4771
General	Ammonia	pounds	128.5477	20.5145	266.7231	1,294.1625	NS	10,611.1168	1,143.4286
General	BioChemical Oxygen Demand- Five-Day	pounds	375.6365	175.2620	38,666.9576	20,836.0160	NS	199,609.6388	84,339.6718
General	Chemical Oxygen Demand	pounds	769.7468	403.8295	115,211.7513	75,061.4242	NS	767,729.3800	196,083.8308
General	Chloride	pounds	26,787.1898	10,257.2702	112,528.7379	42,966.1945	NS	296,124.1894	111,035.4223
General	Dissolved Phosphorus	pounds	30.9438	11.3072	725.9919	452.9569	NS	6,580.5375	566.9894
General	Fluoride	pounds	94.0631	37.1523	899.5986	562.9607	NS	3,098.3364	888.2834
General	Hardness as CaCO3	pounds	64,658.7341	34,729.3400	370,887.1445	161,770.3107	NS	1,233,850.7893	330,743.8110
General	Kjeldahl-N	pounds	307.8987	77.5353	2,335.7999	3,934.2540	NS	24,128.6377	4,441.4169
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0254	0.0133	0.2604	0.2135	0.0701	4.5241	0.3898
General	Methylene Blue Active Substances (MBAS)	pounds	0.7697	0.4038	1,041.6405	1,022.3884	NS	19,467.4236	8,410.3426
General	NH3-N	pounds	106.2251	16.9608	220.9540	1,074.1549	NS	8,774.0501	944.9823
General	Nitrate (NO3)	pounds	1,063.7901	550.0158	15,072.2223	7,092.0104	NS	68,547.2661	9,709.6933
General	Nitrate-N	pounds	240.1610	124.3795	3,409.0052	1,604.7615	NS	15,491.6821	2,194.7214
General	Nitrite-N	pounds	5.7115	0.4038	236.7365	135.8871	NS	1,491.5885	141.5111
General	Phosphorus- Total (as P)	pounds	31.4057	14.5379	820.6864	621.1980	NS	7,128.9157	685.1122
General	Sulfate	pounds	29,096.4303	16,153.1814	153,247.4116	53,707.7432	NS	279,672.8456	105,838.0195
General	Total Dissolved Solids	pounds	134,551.7467	50,720.9897	757,556.7208	341,658.8963	NS	2,632,215.0172	746,536.0305
General	Total Organic Carbon	pounds	860.5770	264.9122	26,830.1339	29,377.4884	NS	217,706.1171	126,391.3849
General	Total Petroleum Hydrocarbons	pounds	115.4620	60.5744	1,183.6824	970.6219	318.8128	20,564.1798	1,771.8418
General	Total Suspended Solids	pounds	6,465.8734	323.0636	579,215.2428	298,951.5342	265,252.2736	19,248,072.3130	810,322.3369
General	Volatile Suspended Solids	pounds	2,309.2405	161.5318	164,137.2895	90,591.3740	NS	4,551,538.4672	297,669.4299
Herbicides	2-4-5-TP-SILVEX	pounds	0.0052	0.0027	0.0529	0.0434	NS	0.9185	0.0791
Herbicides	2-4-D	pounds	0.0015	0.0008	0.0158	0.0129	NS	0.2742	0.0236
Herbicides	Glyphosate	pounds	0.3849	0.2019	3.9456	3.2354	NS	68.5473	5.9061

Table 4-9 Estimated Loads

Group	Parameter	Units	Ballona Creek at Sawtelle Blvd. S01 2013-14Event08 10/15/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event14 3/5/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event09 11/21/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event10 11/29/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event12 12/19/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event13 2/27/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event15 4/1/2014
			Dry		Wet				
Metals	Aluminum	pounds	192.4367	21.2414	17,360.6749	7,803.7998	NS	279,672.8456	13,465.9980
Metals	Antimony	pounds	0.2494	0.0553	11.1424	9.2274	NS	168.3521	15.1670
Metals	Arsenic	pounds	0.4110	0.1833	6.9758	3.8825	NS	78.6923	6.7802
Metals	Barium	pounds	17.2423	7.4385	367.7307	164.3586	NS	4,551.5385	328.3814
Metals	Beryllium	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Cadmium	pounds	0.0077	0.0040	1.9728	0.8024	NS	23.5803	1.8144
Metals	Chromium	pounds	0.7035	0.2698	30.7757	15.7888	NS	669.0213	26.4595
Metals	Chromium +6	pounds	0.0192	0.0945	0.1973	0.1618	NS	3.4274	0.2953
Metals	Copper	pounds	3.5562	0.7568	268.3013	112.4627	NS	2,209.9639	295.3070
Metals	Dissolved Aluminum	pounds	40.3347	2.0191	3,693.0890	1,294.1625	NS	45,241.1956	2,834.9470
Metals	Dissolved Antimony	pounds	0.1466	0.0081	4.1350	4.1672	NS	41.6767	7.0874
Metals	Dissolved Barium	pounds	12.4083	5.8717	175.1850	93.6974	NS	2,179.8031	218.2909
Metals	Dissolved Beryllium	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Dissolved Iron	pounds	65.8903	2.0191	5,744.8051	1,721.2361	NS	59,499.0270	4,276.0450
Metals	Dissolved Mercury	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Dissolved Selenium	pounds	0.4218	0.2302	2.5252	0.3235	NS	6.8547	0.5906
Metals	Dissolved Thallium	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Iron	pounds	277.1089	23.1798	23,357.9989	10,288.5918	NS	359,187.6742	16,726.1870
Metals	Lead	pounds	0.9437	0.0864	93.9055	45.1663	NS	1,919.3235	93.0808
Metals	Mercury	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Nickel	pounds	1.0838	0.5193	33.3009	17.2124	NS	427.7349	32.8381
Metals	Selenium	pounds	0.4326	0.2496	3.1091	1.4495	NS	6.8547	3.1421
Metals	Silver	pounds	0.0077	0.0040	1.5940	1.4236	NS	24.0738	2.1120
Metals	Thallium	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals	Zinc	pounds	23.4003	3.5618	1,128.4439	586.2556	NS	10,254.6710	1,370.2244
Metals-CMCCCC	Dissolved Arsenic	pounds	0.3279	0.0081	4.8926	2.6401	NS	41.1284	5.3155
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0077	0.0040	1.4835	0.6173	NS	17.0271	1.4057
Metals-CMCCCC	Dissolved Chromium	pounds	0.6866	0.2294	12.1840	5.1508	NS	200.9806	9.8751
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0192	0.0942	0.1973	0.1618	NS	3.4274	0.2953
Metals-CMCCCC	Dissolved Copper	pounds	2.5094	0.6195	149.4596	69.7554	NS	1,327.0751	166.3169
Metals-CMCCCC	Dissolved Lead	pounds	0.6620	0.0756	61.7093	30.4128	NS	1,310.6237	69.2200
Metals-CMCCCC	Dissolved Nickel	pounds	0.7851	0.3772	20.0437	9.2791	NS	160.9490	20.5770
Metals-CMCCCC	Dissolved Silver	pounds	0.0077	0.0040	0.0789	0.0647	NS	1.3709	0.1181
Metals-CMCCCC	Dissolved Zinc	pounds	8.4980	2.3907	844.3601	367.5421	NS	8,609.5366	888.2834
Organophosphate Pesticides	Atrazine	pounds	0.0513	0.0269	0.5263	0.4316	NS	9.1442	0.7879
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0015	0.0008	0.0158	0.0129	NS	0.2742	0.0236
Organophosphate Pesticides	Cyanazine	pounds	0.0513	0.0269	0.5263	0.4316	NS	9.1442	0.7879
Organophosphate Pesticides	Diazinon	pounds	0.0002	0.0001	0.0024	0.0019	NS	0.0411	0.0035
Organophosphate Pesticides	Malathion	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Organophosphate Pesticides	Prometryn	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Organophosphate Pesticides	Simazine	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0050	0.0026	0.0513	0.0421	NS	0.8911	0.0768
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	2.3092	1.2115	23.6736	19.4124	6.3763	411.2836	35.4368

Table 4-9 Estimated Loads

Group	Parameter	Units	Ballona Creek at Sawtelle Blvd. S01 2013-14Event08 10/15/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event14 3/5/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event09 11/21/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event10 11/29/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event12 12/19/2013	Ballona Creek at Sawtelle Blvd. S01 2013-14Event13 2/27/2014	Ballona Creek at Sawtelle Blvd. S01 2013-14Event15 4/1/2014
			Dry		Wet				
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0385	0.0202	0.3946	0.3235	NS	6.8547	0.5906
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0385	0.0202	0.3946	0.3235	NS	6.8547	0.5906
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0385	0.0202	0.3946	0.3235	NS	6.8547	0.5906
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0254	0.0133	0.2604	0.2135	0.0701	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0025	0.0013	0.0260	0.0214	NS	0.4524	0.0390
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0770	0.0404	0.7891	0.6471	NS	13.7095	1.1812
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0516	0.0271	0.5287	0.4335	NS	9.1853	0.7914
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0013	0.0007	0.0134	0.0110	NS	0.2331	0.0201
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0025	0.0013	0.0260	0.0214	NS	0.4524	0.0390
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0013	0.0007	0.0134	0.0110	NS	0.2331	0.0201
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.1285	0.0674	1.3178	1.0806	NS	22.8948	1.9727
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0052	0.0027	0.0529	0.0434	NS	0.9185	0.0791
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0254	0.0133	0.2604	0.2135	NS	4.5241	0.3898
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0013	0.0007	0.0134	0.0110	NS	0.2331	0.0201
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0013	0.0007	0.0134	0.0110	NS	0.2331	0.0201
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.2563	0.1345	2.6278	2.1548	NS	45.6525	3.9335

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Malibu Creek at Piuma Rd. S02 2013-14Event08 10/15/2013	Malibu Creek at Piuma Rd. S02 2013-14Event14 3/5/2014	Malibu Creek at Piuma Rd. S02 2013-14Event09 11/21/2013	Malibu Creek at Piuma Rd. S02 2013-14Event13 2/27/2013
			Dry		Wet	
Bacteria	E. Coli	MPN	4.885E+08	1.296E+08	3.929E+10	1.629E+13
Bacteria	Fecal Coliform	MPN	3.257E+08	2.592E+09	4.400E+11	5.775E+13
Bacteria	Fecal Enterococcus	MPN	3.257E+08	2.592E+09	4.400E+11	2.406E+11
Bacteria	Fecal Streptococcus	MPN	4.234E+09	2.592E+09	4.400E+11	5.775E+13
Bacteria	Total Coliform	MPN	1.628E+11	2.592E+09	2.933E+12	2.165E+14
Chlorinated Pesticides	4-4'-DDD	pounds	0.0000	0.0003	0.0002	0.0292
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0001	0.0001	0.0106
Chlorinated Pesticides	4-4'-DDT	pounds	0.0000	0.0003	0.0002	0.0265
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0001	0.0001	0.0106
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0001	0.0000	0.0053
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0000	0.0003	0.0002	0.0265
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0001	0.0001	0.0106
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0002	0.0014	0.0010	0.1326
Chlorinated Pesticides	Endrin	pounds	0.0000	0.0002	0.0001	0.0159
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0000	0.0003	0.0002	0.0265
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0001	0.0001	0.0080
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0000	0.0003	0.0002	0.0265
Chlorinated Pesticides	Methoxychlor	pounds	0.0018	0.0143	0.0101	1.3261
Chlorinated Pesticides	Toxaphene	pounds	0.0009	0.0069	0.0048	0.6365
Chlorinated Pesticides	alpha-BHC	pounds	0.0000	0.0003	0.0002	0.0265
Chlorinated Pesticides	alpha-chlordane	pounds	0.0001	0.0009	0.0007	0.0875
Chlorinated Pesticides	beta-BHC	pounds	0.0000	0.0001	0.0001	0.0133
Chlorinated Pesticides	delta-BHC	pounds	0.0000	0.0001	0.0001	0.0133
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0001	0.0001	0.0106
Chlorinated Pesticides	gamma-chlordane	pounds	0.0001	0.0009	0.0007	0.0875
Conventionals	Cyanide	pounds	0.0179	0.1429	0.2425	13.2613
Conventionals	Dissolved Oxygen	pounds	56.9325	240.0222	432.4409	38,139.4241
Conventionals	Oil and Grease	pounds	5.1692	41.1467	29.0988	3,819.2469
General	Alkalinity as CaCO3	pounds	1,292.2882	9,200.8527	6,102.6703	631,236.6429
General	Ammonia	pounds	1.5651	19.3732	28.8563	1,347.3454
General	BioChemical Oxygen Demand- Five-Day	pounds	3.5897	114.8678	111.1413	26,681.6833
General	Chemical Oxygen Demand	pounds	35.8969	285.7408	929.5458	26,522.5480
General	Chloride	pounds	1,285.1088	10,686.7047	7,315.1213	684,281.7389
General	Dissolved Phosphorus	pounds	10.8409	52.5763	60.6226	1,591.3529
General	Fluoride	pounds	4.7743	30.2314	28.4118	1,591.3529
General	Hardness as CaCO3	pounds	4,307.6274	33,431.6699	20,813.7430	2,678,777.3499
General	Kjeldahl-N	pounds	9.1896	70.8637	30.7154	5,941.0508
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0012	0.0094	0.0067	0.8752
General	Methylene Blue Active Substances (MBAS)	pounds	0.0359	0.2857	0.2021	26.5225
General	NH3-N	pounds	1.2923	16.0015	23.8449	1,113.9470
General	Nitrate (NO3)	pounds	186.6639	1,388.7001	1,596.3939	33,736.6811
General	Nitrate-N	pounds	42.2147	313.1719	360.0980	7,638.4938
General	Nitrite-N	pounds	0.0359	0.2857	0.2021	26.5225
General	Phosphorus- Total (as P)	pounds	10.9844	60.0056	61.8350	1,856.5784
General	Sulfate	pounds	3,568.1514	26,231.0025	17,742.2003	2,217,285.0144
General	Total Dissolved Solids	pounds	9,261.3989	72,578.1552	48,902.1923	5,410,599.7958
General	Total Organic Carbon	pounds	38.8404	320.6011	282.5011	62,593.2133
General	Total Petroleum Hydrocarbons	pounds	5.3845	42.8611	30.3113	3,978.3822
General	Total Suspended Solids	pounds	64.6144	28.5741	242.4902	1,580,743.8619
General	Volatile Suspended Solids	pounds	43.0763	28.5741	242.4902	281,139.0090
Herbicides	2-4-5-TP-SILVEX	pounds	0.0002	0.0019	0.0014	0.1777
Herbicides	2-4-D	pounds	0.0001	0.0006	0.0004	0.0530
Herbicides	Glyphosate	pounds	0.0179	0.1429	0.1010	13.2613

Table 4-9 Estimated Loads

Group	Parameter	Units	Malibu Creek at Piuma Rd. S02 2013-14Event08 10/15/2013	Malibu Creek at Piuma Rd. S02 2013-14Event14 3/5/2014	Malibu Creek at Piuma Rd. S02 2013-14Event09 11/21/2013	Malibu Creek at Piuma Rd. S02 2013-14Event13 2/27/2013
			Dry		Wet	
Metals	Aluminum	pounds	0.7395	6.2863	16.4893	35,805.4398
Metals	Antimony	pounds	0.0049	0.0057	0.0271	8.3811
Metals	Arsenic	pounds	0.0140	0.1092	0.0970	14.1630
Metals	Barium	pounds	0.3532	2.3602	1.8591	562.2780
Metals	Beryllium	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Cadmium	pounds	0.0020	0.0029	0.0160	15.7013
Metals	Chromium	pounds	0.0182	0.1006	0.1229	74.2631
Metals	Chromium +6	pounds	0.0009	0.0071	0.0051	0.6631
Metals	Copper	pounds	0.0668	0.3423	0.4648	112.4556
Metals	Dissolved Aluminum	pounds	0.1795	1.4287	5.7389	5,569.7351
Metals	Dissolved Antimony	pounds	0.0007	0.0057	0.0040	3.5699
Metals	Dissolved Barium	pounds	0.2592	1.7430	1.4307	246.1292
Metals	Dissolved Beryllium	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Dissolved Iron	pounds	0.1795	1.4287	9.4167	12,253.4172
Metals	Dissolved Mercury	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Dissolved Selenium	pounds	0.0133	0.2749	0.1718	28.5383
Metals	Dissolved Thallium	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Iron	pounds	1.2133	7.7150	22.4303	56,758.2528
Metals	Lead	pounds	0.0062	0.0057	0.0213	31.4027
Metals	Mercury	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Nickel	pounds	0.0754	0.6286	0.5052	147.4654
Metals	Selenium	pounds	0.0136	0.2846	0.1976	37.2907
Metals	Silver	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Thallium	pounds	0.0004	0.0029	0.0020	0.2652
Metals	Zinc	pounds	0.8328	3.3946	2.6351	625.9321
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0090	0.0057	0.0436	13.6856
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0004	0.0029	0.0124	11.4047
Metals-CMCCCC	Dissolved Chromium	pounds	0.0101	0.0709	0.1075	19.6797
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0009	0.0071	0.0051	0.6631
Metals-CMCCCC	Dissolved Copper	pounds	0.0363	0.2629	0.3257	56.2278
Metals-CMCCCC	Dissolved Lead	pounds	0.0007	0.0057	0.0040	17.0805
Metals-CMCCCC	Dissolved Nickel	pounds	0.0541	0.4623	0.3819	82.2199
Metals-CMCCCC	Dissolved Silver	pounds	0.0004	0.0029	0.0020	0.2652
Metals-CMCCCC	Dissolved Zinc	pounds	0.2060	2.1259	2.0208	334.7146
Organophosphate Pesticides	Atrazine	pounds	0.0024	0.0191	0.0135	1.7691
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0001	0.0006	0.0004	0.0530
Organophosphate Pesticides	Cyanazine	pounds	0.0024	0.0191	0.0135	1.7691
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0001	0.0001	0.0080
Organophosphate Pesticides	Malathion	pounds	0.0012	0.0094	0.0067	0.8752
Organophosphate Pesticides	Prometryn	pounds	0.0024	0.0191	0.0135	1.7770
Organophosphate Pesticides	Simazine	pounds	0.0024	0.0191	0.0135	1.7770
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0002	0.0019	0.0013	0.1724
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0002	0.0019	0.0013	0.1724
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0120	0.0952	0.0673	8.8320
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.1077	0.8572	0.6062	79.5676

Table 4-9 Estimated Loads

Group	Parameter	Units	Malibu Creek at Piuma Rd. S02 2013-14Event08 10/15/2013	Malibu Creek at Piuma Rd. S02 2013-14Event14 3/5/2014	Malibu Creek at Piuma Rd. S02 2013-14Event09 11/21/2013	Malibu Creek at Piuma Rd. S02 2013-14Event13 2/27/2013
			Dry		Wet	
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0018	0.0143	0.0101	1.3261
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0018	0.0143	0.0101	1.3261
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0018	0.0143	0.0101	1.3261
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0120	0.0952	0.0673	8.8320
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0120	0.0952	0.0673	8.8320
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0120	0.0952	0.0673	8.8320
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0001	0.0009	0.0007	0.0875
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0036	0.0286	0.0202	2.6523
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0024	0.0191	0.0135	1.7770
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0001	0.0005	0.0003	0.0451
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0001	0.0009	0.0007	0.0875
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0001	0.0005	0.0003	0.0451
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0060	0.0477	0.0337	4.4293
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0002	0.0019	0.0014	0.1777
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0012	0.0094	0.0067	0.8752
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0001	0.0005	0.0003	0.0451
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0001	0.0005	0.0003	0.0451
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0120	0.0952	0.0673	8.8320
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0120	0.0952	0.0673	8.8320

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Los Angeles River at Wardlow Rd. S10 2013-14Event08 10/15/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event14 3/5/2014	Los Angeles River at Wardlow Rd. S10 2013-14Event09 11/21/20113	Los Angeles River at Wardlow Rd. S10 2013-14Event10 11/29/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event12 12/19/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event13 2/27/2014
			Dry		Wet			
Bacteria	E. Coli	MPN	1.669E+12	2.367E+09	7.102E+15	1.649E+15	1.152E+14	6.899E+15
Bacteria	Fecal Coliform	MPN	4.145E+12	4.733E+10	4.645E+16	9.058E+15	3.186E+14	2.315E+16
Bacteria	Fecal Enterococcus	MPN	1.906E+12	4.733E+10	8.258E+15	1.132E+16	8.497E+13	5.953E+16
Bacteria	Fecal Streptococcus	MPN	2.487E+12	4.733E+10	8.258E+15	1.887E+16	8.497E+13	5.953E+16
Bacteria	Total Coliform	MPN	4.145E+12	4.733E+10	4.645E+17	1.887E+17	1.239E+15	1.587E+17
Chlorinated Pesticides	4-4'-DDD	pounds	0.0101	0.0057	0.0626	0.0458	0.0429	0.8020
Chlorinated Pesticides	4-4'-DDE	pounds	0.0037	0.0021	0.0228	0.0166	0.0156	0.2916
Chlorinated Pesticides	4-4'-DDT	pounds	0.0091	0.0052	0.0569	0.0416	0.0390	0.7291
Chlorinated Pesticides	Aldrin	pounds	0.0037	0.0021	0.0228	0.0166	0.0156	0.2916
Chlorinated Pesticides	Dieldrin	pounds	0.0018	0.0010	0.0114	0.0083	0.0078	0.1458
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0091	0.0052	0.0569	0.0416	0.0390	0.7291
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0037	0.0021	0.0228	0.0166	0.0156	0.2916
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0457	0.0261	0.2845	0.2080	0.1951	3.6454
Chlorinated Pesticides	Endrin	pounds	0.0055	0.0031	0.0341	0.0250	0.0234	0.4374
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0091	0.0052	0.0569	0.0416	0.0390	0.7291
Chlorinated Pesticides	Heptachlor	pounds	0.0027	0.0016	0.0171	0.0125	0.0117	0.2187
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0091	0.0052	0.0569	0.0416	0.0390	0.7291
Chlorinated Pesticides	Methoxychlor	pounds	0.4569	0.2609	2.8447	2.0800	1.9514	36.4537
Chlorinated Pesticides	Toxaphene	pounds	0.2193	0.1252	1.3655	0.9984	0.9366	17.4978
Chlorinated Pesticides	alpha-BHC	pounds	0.0091	0.0052	0.0569	0.0416	0.0390	0.7291
Chlorinated Pesticides	alpha-chlordane	pounds	0.0302	0.0172	0.1878	0.1373	0.1288	2.4059
Chlorinated Pesticides	beta-BHC	pounds	0.0046	0.0026	0.0284	0.0208	0.0195	0.3645
Chlorinated Pesticides	delta-BHC	pounds	0.0046	0.0026	0.0284	0.0208	0.0195	0.3645
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0037	0.0021	0.0228	0.0166	0.0156	0.2916
Chlorinated Pesticides	gamma-chlordane	pounds	0.0302	0.0172	0.1878	0.1373	0.1288	2.4059
Conventionals	Cyanide	pounds	12.7919	2.6088	341.3681	49.9206	93.6650	364.5366
Conventionals	Dissolved Oxygen	pounds	26,680.2076	7,826.3516	65,315.0930	66,394.4473	135,033.6952	1,348,785.4439
Conventionals	Oil and Grease	pounds	1,315.7363	751.3298	8,192.8340	5,990.4764	5,619.8995	104,986.5427
General	Alkalinity as CaCO3	pounds	254,010.1955	186,788.9243	1,467,882.7513	391,044.9902	803,957.8385	4,082,809.9924
General	Ammonia	pounds	928.3250	391.3176	3,720.9121	6,847.4474	4,534.9466	26,538.2650
General	BioChemical Oxygen Demand- Five-Day	pounds	10,471.0678	4,977.5596	296,990.2311	108,993.3909	179,524.5659	857,390.0984
General	Chemical Oxygen Demand	pounds	9,137.0574	21,913.7844	989,967.4369	490,886.2643	382,465.3795	729,073.2129
General	Chloride	pounds	252,182.7840	122,091.0846	573,498.3773	210,498.6862	606,480.8160	1,545,635.2114
General	Dissolved Phosphorus	pounds	219.2894	302.6189	5,120.5212	4,243.2541	3,122.1664	27,704.7821
General	Fluoride	pounds	1,255.4317	492.5384	5,996.6993	2,986.9181	4,285.1733	17,351.9425
General	Hardness as CaCO3	pounds	411,167.5826	250,443.2505	1,934,419.1296	582,407.4323	1,272,282.7929	7,290,732.1293
General	Kjeldahl-N	pounds	6,797.9707	2,212.2487	17,295.9828	35,942.8587	10,927.5823	87,488.7856
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
General	Methylene Blue Active Substances (MBAS)	pounds	9.1371	5.2176	7,851.4659	7,072.0902	4,136.8704	100,612.1034
General	NH3-N	pounds	767.5128	323.4892	3,072.3127	5,657.6722	3,746.5996	21,872.1964
General	Nitrate (NO3)	pounds	18,237.5666	11,374.2976	122,892.5094	51,584.6583	98,348.2404	427,236.9028
General	Nitrate-N	pounds	4,111.6758	2,556.6082	27,650.8146	11,648.1486	22,089.3270	96,237.6641
General	Nitrite-N	pounds	663.3504	63.4456	6,633.9197	1,322.8969	1,490.8344	5,890.9116
General	Phosphorus- Total (as P)	pounds	255.8376	344.3595	6,599.7829	4,467.8970	3,278.2747	33,537.3678
General	Sulfate	pounds	261,319.8414	149,222.4367	784,008.6943	235,459.0048	654,093.8531	2,012,242.0677
General	Total Dissolved Solids	pounds	1,143,959.5853	619,847.0449	4,301,237.8294	1,497,619.1115	3,403,161.3357	15,456,352.1140
General	Total Organic Carbon	pounds	23,025.3846	7,982.8786	357,298.5922	123,969.5820	120,983.9466	975,499.9589
General	Total Petroleum Hydrocarbons	pounds	1,370.5586	782.6352	8,534.2020	6,240.0796	5,854.0619	109,360.9819
General	Total Suspended Solids	pounds	42,030.4640	5,217.5677	7,885,602.6873	316,164.0347	3,200,220.5221	50,160,237.0490
General	Volatile Suspended Solids	pounds	25,583.7607	4,174.0542	2,207,513.5950	141,441.8050	921,039.0771	9,186,322.4829
Herbicides	2-4-5-TP-SILVEX	pounds	0.0612	0.0350	0.3812	0.2787	0.2615	4.8848
Herbicides	2-4-D	pounds	0.0183	0.0104	0.1138	0.0832	0.0781	1.4581
Herbicides	Glyphosate	pounds	4.5685	2.6088	28.4473	79.0410	19.5135	364.5366

Table 4-9 Estimated Loads

Group	Parameter	Units	Los Angeles River at Wardlow Rd. S10 2013-14Event08 10/15/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event14 3/5/2014	Los Angeles River at Wardlow Rd. S10 2013-14Event09 11/21/20113	Los Angeles River at Wardlow Rd. S10 2013-14Event10 11/29/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event12 12/19/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event13 2/27/2014
			Dry		Wet			
Metals	Aluminum	pounds	191.8782	181.5714	117,203.0414	12,729.7624	153,766.6934	1,450,855.6937
Metals	Antimony	pounds	2.6497	1.3983	71.1184	35.2773	72.2001	546.8049
Metals	Arsenic	pounds	3.7462	2.2227	59.1705	14.7266	42.0712	400.9903
Metals	Barium	pounds	102.5178	67.8284	2,526.1238	455.1098	2,802.1443	22,018.0110
Metals	Beryllium	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Cadmium	pounds	0.0914	0.0522	24.5785	0.4160	19.2794	133.5662
Metals	Chromium	pounds	4.7147	2.1601	240.0956	48.7558	248.9928	2,537.1748
Metals	Chromium +6	pounds	0.2284	0.1304	1.4224	1.0400	0.9757	18.2268
Metals	Copper	pounds	22.1117	11.6874	1,752.3562	281.2196	1,693.7753	8,428.0863
Metals	Dissolved Aluminum	pounds	45.6853	26.0878	23,213.0296	2,279.7091	22,011.2729	230,387.1353
Metals	Dissolved Antimony	pounds	1.8457	0.9955	28.3336	23.5459	16.4694	183.7264
Metals	Dissolved Barium	pounds	79.3097	52.6974	1,228.9251	295.3638	1,342.5315	9,346.7186
Metals	Dissolved Beryllium	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Dissolved Iron	pounds	45.6853	26.0878	49,725.9506	2,995.2382	44,881.1415	240,594.1603
Metals	Dissolved Mercury	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Dissolved Selenium	pounds	3.0701	2.2853	13.7685	2.0800	1.9514	36.4537
Metals	Dissolved Thallium	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Iron	pounds	336.2437	243.1387	182,062.9769	16,224.2070	201,379.7304	2,055,986.4605
Metals	Lead	pounds	2.9970	1.0748	526.8447	108.9934	850.7903	5,788.8413
Metals	Mercury	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Nickel	pounds	12.3898	9.3499	302.6797	77.7098	306.7528	2,755.8967
Metals	Selenium	pounds	3.1249	2.2853	25.7164	2.0800	15.2986	36.4537
Metals	Silver	pounds	0.0914	0.0522	8.5001	0.4160	10.9276	51.7642
Metals	Thallium	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals	Zinc	pounds	244.8731	74.1938	7,054.9404	1,639.0609	9,210.3908	55,117.9349
Metals-CMCCCC	Dissolved Arsenic	pounds	2.5767	1.3148	39.8263	14.3938	22.6357	193.9335
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0914	0.0522	18.6615	0.4160	14.1278	94.3421
Metals-CMCCCC	Dissolved Chromium	pounds	2.5949	0.9621	83.5214	20.8835	59.0870	373.2855
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.2284	0.1304	1.4224	1.0400	0.9757	18.2268
Metals-CMCCCC	Dissolved Copper	pounds	15.8619	9.6525	941.0380	201.3466	718.0983	4,461.9281
Metals-CMCCCC	Dissolved Lead	pounds	1.9005	0.7179	336.8165	80.8714	554.1845	3,659.9475
Metals-CMCCCC	Dissolved Nickel	pounds	9.5025	7.2733	176.3735	54.7463	128.0088	1,097.9843
Metals-CMCCCC	Dissolved Silver	pounds	0.0914	0.0522	0.5689	0.4160	0.3903	7.2907
Metals-CMCCCC	Dissolved Zinc	pounds	76.5685	37.4621	5,404.9946	973.4524	7,711.7509	42,869.5049
Organophosphate Pesticides	Atrazine	pounds	0.6094	0.3480	3.7949	2.7748	2.6031	48.6292
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0183	0.0104	0.1138	0.0832	0.0781	1.4581
Organophosphate Pesticides	Cyanazine	pounds	0.6094	0.3480	3.7949	2.7748	2.6031	48.6292
Organophosphate Pesticides	Diazinon	pounds	0.0027	0.0016	0.0171	0.0125	0.0117	0.2187
Organophosphate Pesticides	Malathion	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Organophosphate Pesticides	Prometryn	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Organophosphate Pesticides	Simazine	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0594	0.0339	0.3698	0.2704	0.2537	4.7390
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	27.4112	15.6527	170.6840	124.8016	117.0812	2,187.2196

Table 4-9 Estimated Loads

Group	Parameter	Units	Los Angeles River at Wardlow Rd. S10 2013-14Event08 10/15/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event14 3/5/2014	Los Angeles River at Wardlow Rd. S10 2013-14Event09 11/21/20113	Los Angeles River at Wardlow Rd. S10 2013-14Event10 11/29/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event12 12/19/2013	Los Angeles River at Wardlow Rd. S10 2013-14Event13 2/27/2014
			Dry		Wet			
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.4569	0.2609	2.8447	2.0800	1.9514	36.4537
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.4569	0.2609	2.8447	2.0800	1.9514	36.4537
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.4569	0.2609	2.8447	2.0800	1.9514	36.4537
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0302	0.0172	0.1878	0.1373	0.1288	2.4059
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.9137	0.5218	5.6895	4.1601	3.9027	72.9073
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.6122	0.3496	3.8119	2.7872	2.6148	48.8479
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0155	0.0089	0.0967	0.0707	0.0663	1.2394
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0302	0.0172	0.1878	0.1373	0.1288	2.4059
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0155	0.0089	0.0967	0.0707	0.0663	1.2394
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	1.5259	0.8713	9.5014	6.9473	6.5175	121.7552
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0612	0.0350	0.3812	0.2787	0.2615	4.8848
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.3015	0.1722	1.8775	1.3728	1.2879	24.0594
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0155	0.0089	0.0967	0.0707	0.0663	1.2394
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0155	0.0089	0.0967	0.0707	0.0663	1.2394
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	3.0426	1.7375	18.9459	13.8530	12.9960	242.7814

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Coyote Creek at Spring Street S13 2013-14Event08 10/15/2013	Coyote Creek at Spring Street S13 2013-14Event14 3/5/2014	Coyote Creek at Spring Street S13 2013-14Event09 11/21/2013	Coyote Creek at Spring Street S13 2013-14Event10 11/29/2013	Coyote Creek at Spring Street S13 2013-14Event12 12/19/2013	Coyote Creek at Spring Street S13 2013-14Event13 2/27/2014
			Dry		Wet			
Bacteria	E. Coli	MPN	1.623E+11	1.387E+08	3.150E+14	2.032E+13	5.284E+13	5.624E+14
Bacteria	Fecal Coliform	MPN	3.878E+11	2.774E+09	3.898E+15	8.309E+13	4.068E+14	3.211E+15
Bacteria	Fecal Enterococcus	MPN	3.186E+10	2.774E+09	1.247E+15	2.160E+14	1.356E+15	1.468E+15
Bacteria	Fecal Streptococcus	MPN	1.939E+11	2.774E+09	1.247E+15	2.160E+14	1.356E+15	1.468E+15
Bacteria	Total Coliform	MPN	1.247E+13	2.774E+09	7.017E+15	3.656E+14	1.085E+15	2.202E+16
Chlorinated Pesticides	4-4'-DDD	pounds	0.0002	0.0003	0.0095	0.0020	0.0055	0.1112
Chlorinated Pesticides	4-4'-DDE	pounds	0.0001	0.0001	0.0034	0.0007	0.0020	0.0405
Chlorinated Pesticides	4-4'-DDT	pounds	0.0002	0.0003	0.0086	0.0018	0.0050	0.1011
Chlorinated Pesticides	Aldrin	pounds	0.0001	0.0001	0.0034	0.0007	0.0020	0.0405
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0001	0.0017	0.0004	0.0010	0.0202
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0002	0.0003	0.0086	0.0018	0.0050	0.1011
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0001	0.0001	0.0034	0.0007	0.0020	0.0405
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0008	0.0015	0.0430	0.0092	0.0249	0.5056
Chlorinated Pesticides	Endrin	pounds	0.0001	0.0002	0.0052	0.0011	0.0030	0.0607
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0002	0.0003	0.0086	0.0018	0.0050	0.1011
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0001	0.0026	0.0005	0.0015	0.0303
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0002	0.0003	0.0086	0.0018	0.0050	0.1011
Chlorinated Pesticides	Methoxychlor	pounds	0.0076	0.0153	0.4297	0.0916	0.2491	5.0564
Chlorinated Pesticides	Toxaphene	pounds	0.0037	0.0073	0.2063	0.0440	0.1196	2.4271
Chlorinated Pesticides	alpha-BHC	pounds	0.0002	0.0003	0.0086	0.0018	0.0050	0.1011
Chlorinated Pesticides	alpha-chlordane	pounds	0.0005	0.0010	0.0284	0.0060	0.0164	0.3337
Chlorinated Pesticides	beta-BHC	pounds	0.0001	0.0002	0.0043	0.0009	0.0025	0.0506
Chlorinated Pesticides	delta-BHC	pounds	0.0001	0.0002	0.0043	0.0009	0.0025	0.0506
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0001	0.0001	0.0034	0.0007	0.0020	0.0405
Chlorinated Pesticides	gamma-chlordane	pounds	0.0005	0.0010	0.0284	0.0060	0.0164	0.3337
Conventionals	Cyanide	pounds	0.2137	0.6115	12.0318	0.9159	2.4914	50.5643
Conventionals	Dissolved Oxygen	pounds	305.0495	314.3177	16,070.9931	3,498.7533	11,161.6409	182,840.4477
Conventionals	Oil and Grease	pounds	21.9855	44.0289	1,237.5524	263.7804	717.5341	14,562.5135
General	Alkalinity as CaCO3	pounds	7,908.6895	12,902.9255	264,698.7104	28,942.5669	74,743.1314	829,254.2430
General	Ammonia	pounds	20.7031	18.5288	4,933.0214	549.5424	1,893.4927	7,341.9339
General	BioChemical Oxygen Demand- Five-Day	pounds	115.7295	30.5757	33,001.3977	3,883.4330	12,955.4761	101,330.8234
General	Chemical Oxygen Demand	pounds	854.9935	305.7565	123,755.2412	15,387.1875	4,982.8754	101,128.5662
General	Chloride	pounds	5,801.7414	8,744.6367	140,943.4692	10,880.9397	36,374.9906	291,250.2707
General	Dissolved Phosphorus	pounds	1.8321	5.0756	223.4470	109.1758	159.4520	3,842.8855
General	Fluoride	pounds	23.3902	43.6009	998.6360	109.5421	301.9623	2,568.6656
General	Hardness as CaCO3	pounds	12,214.1923	50,144.0706	378,141.0148	40,299.7768	112,612.9846	910,157.0960
General	Kjeldahl-N	pounds	107.4849	88.0579	8,800.3727	1,304.2473	2,630.9582	18,607.6562
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
General	Methylene Blue Active Substances (MBAS)	pounds	0.1527	0.3058	910.9761	212.4897	637.8081	13,146.7136
General	NH3-N	pounds	17.0999	15.2878	4,073.6100	454.2884	1,564.6229	6,067.7140
General	Nitrate (NO3)	pounds	181.0754	450.6851	17,360.1102	2,271.4420	8,779.8265	62,092.9397
General	Nitrate-N	pounds	40.9175	101.5112	3,918.9160	512.9062	1,983.1844	13,996.1936
General	Nitrite-N	pounds	4.0918	0.3058	232.0411	27.1840	110.6198	663.4034
General	Phosphorus- Total (as P)	pounds	2.1375	5.1367	257.8234	122.3648	199.3150	4,449.6569
General	Sulfate	pounds	9,527.0700	15,838.1881	232,041.0773	14,764.3728	45,742.7964	396,423.9796
General	Total Dissolved Solids	pounds	33,283.6741	54,546.9646	941,914.8914	84,995.8928	253,130.0715	2,831,599.8543
General	Total Organic Carbon	pounds	326.7296	315.5407	45,033.1572	5,348.8795	21,027.7343	149,265.7638
General	Total Petroleum Hydrocarbons	pounds	22.9016	45.8635	1,289.1171	274.7712	747.4313	15,169.2849
General	Total Suspended Solids	pounds	1,129.8128	366.9078	603,306.8009	52,389.7098	239,178.0203	7,261,031.0549
General	Volatile Suspended Solids	pounds	335.8903	244.6052	134,068.1780	16,486.2723	87,698.6075	1,456,251.3536
Herbicides	2-4-5-TP-SILVEX	pounds	0.0010	0.0020	0.0576	0.0123	0.0334	0.6776
Herbicides	2-4-D	pounds	0.0003	0.0006	0.0172	0.0037	0.0100	15.9783
Herbicides	Glyphosate	pounds	0.0763	0.1529	12.2036	2.7111	2.4914	50.5643

Table 4-9 Estimated Loads

Group	Parameter	Units	Coyote Creek at Spring Street S13 2013-14Event08 10/15/2013	Coyote Creek at Spring Street S13 2013-14Event14 3/5/2014	Coyote Creek at Spring Street S13 2013-14Event09 11/21/2013	Coyote Creek at Spring Street S13 2013-14Event10 11/29/2013	Coyote Creek at Spring Street S13 2013-14Event12 12/19/2013	Coyote Creek at Spring Street S13 2013-14Event13 2/27/2014
			Dry		Wet			
Metals	Aluminum	pounds	3.8780	23.7267	24,063.5191	1,278.6020	12,756.1611	155,737.9920
Metals	Antimony	pounds	0.0522	0.0543	11.9630	1.6413	10.8627	78.4758
Metals	Arsenic	pounds	0.1206	0.2856	11.3614	0.9562	4.1557	48.7440
Metals	Barium	pounds	2.8795	5.8094	525.9598	32.8993	265.0890	2,831.5999
Metals	Beryllium	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Cadmium	pounds	0.0015	0.0031	2.1142	0.2491	1.5547	14.8457
Metals	Chromium	pounds	0.1047	0.1217	38.3297	2.9858	25.6120	315.5211
Metals	Chromium +6	pounds	0.0038	0.0076	0.2149	0.0458	0.1246	2.5282
Metals	Copper	pounds	0.4519	0.5222	223.4470	17.6953	172.4075	987.0148
Metals	Dissolved Aluminum	pounds	0.7634	1.5288	4,503.3157	161.1991	2,331.9857	19,416.6847
Metals	Dissolved Antimony	pounds	0.0373	0.0372	4.9674	0.8646	2.6310	26.6979
Metals	Dissolved Barium	pounds	2.1650	4.5925	278.4493	19.6736	136.5308	1,298.4908
Metals	Dissolved Beryllium	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Dissolved Iron	pounds	0.7634	1.5288	7,287.8086	259.3840	3,737.1566	22,855.0560
Metals	Dissolved Mercury	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Dissolved Selenium	pounds	0.1221	0.1853	2.8704	0.0916	0.2491	5.0564
Metals	Dissolved Thallium	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Iron	pounds	6.9926	24.0936	32,829.5154	1,758.5357	16,443.4889	204,279.7038
Metals	Lead	pounds	0.0544	0.0479	62.7370	5.0558	55.3099	461.1463
Metals	Mercury	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Nickel	pounds	0.2211	0.3565	50.0177	5.3489	25.8113	319.5663
Metals	Selenium	pounds	0.1276	0.2018	5.1049	0.0916	1.5248	5.0564
Metals	Silver	pounds	0.0015	0.0031	0.8027	0.0183	0.7474	6.4318
Metals	Thallium	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals	Zinc	pounds	3.4810	2.4889	1,160.2054	119.4339	936.7806	5,663.1997
Metals-CMCCCC	Dissolved Arsenic	pounds	0.1047	0.2507	7.2362	0.6631	2.4416	31.9566
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0015	0.0031	1.7188	0.1846	1.1660	10.8410
Metals-CMCCCC	Dissolved Chromium	pounds	0.0904	0.0923	15.4522	0.7107	5.9994	38.4289
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0038	0.0076	0.2149	0.0458	0.1246	2.5282
Metals-CMCCCC	Dissolved Copper	pounds	0.2684	0.4323	104.3325	10.6978	72.5507	503.6203
Metals-CMCCCC	Dissolved Lead	pounds	0.0336	0.0337	46.0645	3.7735	36.6740	289.2277
Metals-CMCCCC	Dissolved Nickel	pounds	0.1536	0.2733	25.9542	3.2863	12.6565	115.4888
Metals-CMCCCC	Dissolved Silver	pounds	0.0015	0.0031	0.0859	0.0183	0.0498	1.0113
Metals-CMCCCC	Dissolved Zinc	pounds	0.7603	0.8194	868.0055	53.1224	762.3799	3,134.9856
Organophosphate Pesticides	Atrazine	pounds	0.0102	0.0204	0.5732	0.1222	0.3324	6.7453
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0003	0.0006	0.0172	0.0037	0.0100	0.2023
Organophosphate Pesticides	Cyanazine	pounds	0.0102	0.0204	0.5732	0.1222	0.3324	6.7453
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0001	0.0026	0.0005	0.0015	0.0303
Organophosphate Pesticides	Malathion	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Organophosphate Pesticides	Prometryn	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Organophosphate Pesticides	Simazine	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0010	0.0020	0.0559	0.0119	0.0324	0.6573
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.4580	0.9173	25.7823	5.4954	14.9486	303.3857

Table 4-9 Estimated Loads

Group	Parameter	Units	Coyote Creek at Spring Street S13 2013-14Event08 10/15/2013	Coyote Creek at Spring Street S13 2013-14Event14 3/5/2014	Coyote Creek at Spring Street S13 2013-14Event09 11/21/2013	Coyote Creek at Spring Street S13 2013-14Event10 11/29/2013	Coyote Creek at Spring Street S13 2013-14Event12 12/19/2013	Coyote Creek at Spring Street S13 2013-14Event13 2/27/2014
			Dry		Wet			
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0076	0.0153	0.4297	0.0916	0.2491	5.0564
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0076	0.0153	0.4297	0.0916	0.2491	5.0564
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0076	0.0153	0.4297	0.0916	0.2491	5.0564
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0005	0.0010	0.0284	0.0060	0.0164	0.3337
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0153	0.0306	0.8594	0.1832	0.4983	10.1129
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0102	0.0205	0.5758	0.1227	0.3339	6.7756
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0003	0.0005	0.0146	0.0031	0.0085	0.1719
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0005	0.0010	0.0284	0.0060	0.0164	0.3337
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0003	0.0005	0.0146	0.0031	0.0085	0.1719
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0255	0.0511	1.4352	0.3059	0.8321	16.8885
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0010	0.0020	0.0576	0.0123	0.0334	0.6776
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0050	0.0101	0.2836	0.0604	0.1644	3.3372
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0003	0.0005	0.0146	0.0031	0.0085	0.1719
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0003	0.0005	0.0146	0.0031	0.0085	0.1719
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0508	0.1018	2.8618	0.6100	1.6593	33.6758

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	San Gabriel River at SGR Parkway S14 2013-14Event14 3/5/2014	San Gabriel River at SGR Parkway S14 2013-14Event09 11/21/2013	San Gabriel River at SGR Parkway S14 2013-14Event13 2/27/2014	San Gabriel River at SGR Parkway S14 2013-14Event15 4/1/2014
			Dry	Wet		
Bacteria	E. Coli	MPN	3.651E+08	6.167E+12	5.564E+13	1.278E+13
Bacteria	Fecal Coliform	MPN	7.302E+09	1.437E+13	2.178E+15	2.614E+14
Bacteria	Fecal Enterococcus	MPN	7.302E+09	1.976E+13	1.180E+14	4.357E+13
Bacteria	Fecal Streptococcus	MPN	7.302E+09	1.976E+13	1.270E+14	4.357E+13
Bacteria	Total Coliform	MPN	7.302E+09	8.083E+13	8.167E+15	4.357E+15
Chlorinated Pesticides	4-4'-DDD	pounds	0.0009	0.0011	0.0110	0.0011
Chlorinated Pesticides	4-4'-DDE	pounds	0.0003	0.0004	0.0040	0.0004
Chlorinated Pesticides	4-4'-DDT	pounds	0.0008	0.0010	0.0100	0.0010
Chlorinated Pesticides	Aldrin	pounds	0.0003	0.0004	0.0040	0.0004
Chlorinated Pesticides	Dieldrin	pounds	0.0002	0.0002	0.0020	0.0002
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0008	0.0010	0.0100	0.0010
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0003	0.0004	0.0040	0.0004
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0040	0.0049	0.0500	0.0048
Chlorinated Pesticides	Endrin	pounds	0.0005	0.0006	0.0060	0.0006
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0008	0.0010	0.0100	0.0010
Chlorinated Pesticides	Heptachlor	pounds	0.0002	0.0003	0.0030	0.0003
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0008	0.0010	0.0100	0.0010
Chlorinated Pesticides	Methoxychlor	pounds	0.0402	0.0495	0.5002	0.0480
Chlorinated Pesticides	Toxaphene	pounds	0.0193	0.0238	0.2401	0.0231
Chlorinated Pesticides	alpha-BHC	pounds	0.0008	0.0010	0.0100	0.0010
Chlorinated Pesticides	alpha-chlordane	pounds	0.0027	0.0033	0.0330	0.0032
Chlorinated Pesticides	beta-BHC	pounds	0.0004	0.0005	0.0050	0.0005
Chlorinated Pesticides	delta-BHC	pounds	0.0004	0.0005	0.0050	0.0005
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0003	0.0004	0.0040	0.0004
Chlorinated Pesticides	gamma-chlordane	pounds	0.0027	0.0033	0.0330	0.0032
Conventionals	Cyanide	pounds	2.2537	3.3658	5.0016	1.7291
Conventionals	Dissolved Oxygen	pounds	542.4896	2,158.0585	17,045.5057	845.3134
Conventionals	Oil and Grease	pounds	115.9028	142.5507	1,440.4653	138.3240
General	Alkalinity as CaCO3	pounds	23,985.4461	16,234.9353	98,031.6640	19,211.6681
General	Ammonia	pounds	62.2978	419.7325	338.1092	32.4677
General	BioChemical Oxygen Demand- Five-Day	pounds	80.4881	2,692.6234	15,344.9564	4,591.5887
General	Chemical Oxygen Demand	pounds	804.8807	10,691.2988	10,003.2310	6,531.9672
General	Chloride	pounds	24,307.3984	11,225.8638	53,817.3829	17,175.2313
General	Dissolved Phosphorus	pounds	32.1952	49.4968	360.1163	15.3693
General	Fluoride	pounds	60.2051	75.8290	384.1241	63.9749
General	Hardness as CaCO3	pounds	48,292.8446	34,647.7277	220,071.0825	42,842.0199
General	Kjeldahl-N	pounds	193.1714	720.6727	2,640.8530	268.9634
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0266	0.0327	0.3301	0.0317
General	Methylene Blue Active Substances (MBAS)	pounds	0.8049	0.9899	1,460.4717	284.3327
General	NH3-N	pounds	51.5124	346.4773	280.0905	26.8963
General	Nitrate (NO3)	pounds	3,316.1087	2,732.2208	12,203.9418	2,535.9402
General	Nitrate-N	pounds	748.5391	619.6994	2,760.8918	574.4289
General	Nitrite-N	pounds	17.2244	33.0638	101.6328	36.1179
General	Phosphorus- Total (as P)	pounds	35.4148	53.4565	460.1486	17.2905
General	Sulfate	pounds	24,629.3507	16,888.2924	73,423.7157	23,246.1184
General	Total Dissolved Solids	pounds	55,053.8428	74,047.1438	404,130.5334	98,363.7408
General	Total Organic Carbon	pounds	1,018.9790	3,880.5455	17,045.5057	3,976.8153
General	Total Petroleum Hydrocarbons	pounds	120.7321	148.4903	1,500.4847	144.0875
General	Total Suspended Solids	pounds	1,287.8092	3,167.7922	216,069.7901	2,497.5169
General	Volatile Suspended Solids	pounds	321.9523	2,177.8572	48,015.5089	1,152.7001
Herbicides	2-4-5-TP-SILVEX	pounds	0.0054	0.0066	0.0670	0.0064
Herbicides	2-4-D	pounds	0.0016	0.0020	0.0200	0.0019
Herbicides	Glyphosate	pounds	0.4024	0.4950	5.0016	0.4803

Table 4-9 Estimated Loads

Group	Parameter	Units	San Gabriel River at SGR Parkway S14 2013-14Event14 3/5/2014	San Gabriel River at SGR Parkway S14 2013-14Event09 11/21/2013	San Gabriel River at SGR Parkway S14 2013-14Event13 2/27/2014	San Gabriel River at SGR Parkway S14 2013-14Event15 4/1/2014
			Dry	Wet		
Metals	Aluminum	pounds	73.5661	96.6177	8,502.7464	133.5211
Metals	Antimony	pounds	0.1231	0.5108	4.5215	0.3362
Metals	Arsenic	pounds	0.2270	0.3405	3.5812	0.2670
Metals	Barium	pounds	19.4781	12.2554	184.6596	12.1418
Metals	Beryllium	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Cadmium	pounds	0.0080	0.0099	0.5522	0.0096
Metals	Chromium	pounds	0.3847	0.8711	19.5663	0.4822
Metals	Chromium +6	pounds	0.0201	0.0247	0.2501	0.0240
Metals	Copper	pounds	1.1236	3.2470	51.0165	2.1325
Metals	Dissolved Aluminum	pounds	4.0244	25.7383	962.3108	24.0146
Metals	Dissolved Antimony	pounds	0.0161	0.3663	2.2807	0.2536
Metals	Dissolved Barium	pounds	14.6327	8.8896	99.6322	9.5674
Metals	Dissolved Beryllium	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Dissolved Iron	pounds	4.0244	45.1410	1,272.4110	28.2412
Metals	Dissolved Mercury	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Dissolved Selenium	pounds	0.3075	0.4732	0.5002	0.3189
Metals	Dissolved Thallium	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Iron	pounds	76.6246	149.4802	11,403.6834	165.2203
Metals	Lead	pounds	0.2962	0.5464	28.2091	0.5014
Metals	Mercury	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Nickel	pounds	1.0850	1.5245	19.3663	1.0547
Metals	Selenium	pounds	0.3171	0.5128	0.5002	0.3362
Metals	Silver	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Thallium	pounds	0.0080	0.0099	0.1000	0.0096
Metals	Zinc	pounds	14.0532	19.9967	246.0795	14.5624
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0161	0.2039	2.7009	0.0192
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0080	0.0099	0.1000	0.0096
Metals-CMCCCC	Dissolved Chromium	pounds	0.3300	0.7702	2.1607	0.3938
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0201	0.0247	0.2501	0.0240
Metals-CMCCCC	Dissolved Copper	pounds	0.8322	2.8312	23.6076	1.6099
Metals-CMCCCC	Dissolved Lead	pounds	0.2141	0.4257	17.6057	0.3881
Metals-CMCCCC	Dissolved Nickel	pounds	0.7840	1.3285	7.4424	0.8088
Metals-CMCCCC	Dissolved Silver	pounds	0.0080	0.0099	0.1000	0.0096
Metals-CMCCCC	Dissolved Zinc	pounds	9.2883	10.7111	125.2405	9.3945
Organophosphate Pesticides	Atrazine	pounds	0.0537	0.0660	0.6672	0.0641
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0016	0.0020	0.0200	0.0019
Organophosphate Pesticides	Cyanazine	pounds	0.0537	0.0660	0.6672	0.0641
Organophosphate Pesticides	Diazinon	pounds	0.0002	0.0003	0.0030	0.0003
Organophosphate Pesticides	Malathion	pounds	0.0266	0.0327	0.3301	0.0317
Organophosphate Pesticides	Prometryn	pounds	0.0539	0.0663	0.6702	0.0644
Organophosphate Pesticides	Simazine	pounds	0.0539	0.0663	0.6702	0.0644
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0052	0.0064	0.0650	0.0062
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0052	0.0064	0.0650	0.0062
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.2680	0.3296	3.3311	0.3199
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	2.4146	2.9698	30.0097	2.8818

Table 4-9 Estimated Loads

Group	Parameter	Units	San Gabriel River at SGR Parkway S14 2013-14Event14 3/5/2014	San Gabriel River at SGR Parkway S14 2013-14Event09 11/21/2013	San Gabriel River at SGR Parkway S14 2013-14Event13 2/27/2014	San Gabriel River at SGR Parkway S14 2013-14Event15 4/1/2014
			Dry	Wet		
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0402	0.0495	0.5002	0.0480
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0402	0.0495	0.5002	0.0480
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0402	0.0495	0.5002	0.0480
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.2680	0.3296	3.3311	0.3199
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.2680	0.3296	3.3311	0.3199
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.2680	0.3296	3.3311	0.3199
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0027	0.0033	0.0330	0.0032
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0805	0.0990	1.0003	0.0961
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0539	0.0663	0.6702	0.0644
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0014	0.0017	0.0170	0.0016
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0027	0.0033	0.0330	0.0032
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0014	0.0017	0.0170	0.0016
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.1344	0.1653	1.6705	0.1604
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0054	0.0066	0.0670	0.0064
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0266	0.0327	0.3301	0.0317
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0014	0.0017	0.0170	0.0016
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0014	0.0017	0.0170	0.0016
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.2680	0.3296	3.3311	0.3199
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.2680	0.3296	3.3311	0.3199

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Dominguez Channel at Artesia Blvd. S28 2013-14Event08 10/15/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event14 3/5/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event09 11/21/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event10 11/29/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event12 12/19/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event13 2/27/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event15 4/1/2014
			Dry		Wet				
Bacteria	E. Coli	MPN	9.317E+10	4.869E+07	3.229E+13	2.413E+13	9.613E+12	1.325E+14	3.843E+13
Bacteria	Fecal Coliform	MPN	1.367E+11	9.737E+08	3.416E+13	4.662E+13	7.949E+13	1.566E+15	5.719E+13
Bacteria	Fecal Enterococcus	MPN	3.155E+10	9.737E+08	4.822E+14	3.418E+14	7.949E+13	4.698E+14	3.432E+14
Bacteria	Fecal Streptococcus	MPN	3.155E+10	9.737E+08	4.822E+14	3.418E+14	7.949E+13	5.872E+14	3.432E+14
Bacteria	Total Coliform	MPN	5.258E+12	9.737E+08	1.005E+15	7.769E+14	1.192E+14	1.762E+15	3.432E+15
Chlorinated Pesticides	4-4'-DDD	pounds	0.0001	0.0001	0.0024	0.0019	NS	0.0237	0.0014
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0000	0.0009	0.0007	NS	0.0086	0.0005
Chlorinated Pesticides	4-4'-DDT	pounds	0.0001	0.0001	0.0022	0.0017	NS	0.0216	0.0013
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0000	0.0009	0.0007	NS	0.0086	0.0005
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0000	0.0004	0.0003	NS	0.0043	0.0003
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0001	0.0001	0.0022	0.0017	NS	0.0216	0.0013
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0000	0.0009	0.0007	NS	0.0086	0.0005
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0006	0.0005	0.0111	0.0086	NS	0.1079	0.0063
Chlorinated Pesticides	Endrin	pounds	0.0001	0.0001	0.0013	0.0010	NS	0.0129	0.0008
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0001	0.0001	0.0022	0.0017	NS	0.0216	0.0013
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0000	0.0007	0.0005	NS	0.0065	0.0004
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0001	0.0001	0.0022	0.0017	NS	0.0216	0.0013
Chlorinated Pesticides	Methoxychlor	pounds	0.0058	0.0054	0.1107	0.0856	NS	1.0788	0.0630
Chlorinated Pesticides	Toxaphene	pounds	0.0028	0.0026	0.0532	0.0411	NS	0.5178	0.0303
Chlorinated Pesticides	alpha-BHC	pounds	0.0001	0.0001	0.0022	0.0017	NS	0.0216	0.0013
Chlorinated Pesticides	alpha-chlordane	pounds	0.0004	0.0004	0.0073	0.0057	NS	0.0712	0.0042
Chlorinated Pesticides	beta-BHC	pounds	0.0001	0.0001	0.0011	0.0009	NS	0.0108	0.0006
Chlorinated Pesticides	delta-BHC	pounds	0.0001	0.0001	0.0011	0.0009	NS	0.0108	0.0006
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0000	0.0009	0.0007	NS	0.0086	0.0005
Chlorinated Pesticides	gamma-chlordane	pounds	0.0004	0.0004	0.0073	0.0057	NS	0.0712	0.0042
Conventionals	Cyanide	pounds	0.3014	0.0537	1.1074	0.8564	0.2738	10.7881	1.2609
Conventionals	Dissolved Oxygen	pounds	350.0700	155.2024	4,429.7896	3,398.2099	1,139.0834	39,743.4756	1,096.9411
Conventionals	Oil and Grease	pounds	16.6921	15.4558	318.9448	246.6443	731.6420	3,106.9818	181.5627
General	Alkalinity as CaCO3	pounds	4,010.7363	3,885.4266	59,802.1591	17,470.6354	NS	125,142.3227	16,391.0737
General	Ammonia	pounds	21.0506	6.7619	987.8431	465.8836	NS	2,403.5956	100.6160
General	BioChemical Oxygen Demand- Five-Day	pounds	122.6404	52.5928	5,891.6201	5,378.2152	NS	28,351.2090	12,078.9605
General	Chemical Oxygen Demand	pounds	625.9531	429.3289	27,021.7163	16,785.5124	NS	21,576.2625	19,669.2884
General	Chloride	pounds	5,007.6245	4,550.8865	45,626.8325	5,549.4959	NS	82,421.3229	8,725.0946
General	Dissolved Phosphorus	pounds	2.7820	2.7906	106.3149	131.8862	NS	906.2030	37.8256
General	Fluoride	pounds	16.8544	12.5579	222.8184	115.1007	NS	617.0811	94.0595
General	Hardness as CaCO3	pounds	7,070.9512	9,015.9071	84,166.0017	18,840.8813	NS	215,762.6253	25,217.0365
General	Kjeldahl-N	pounds	55.6403	36.9223	1,771.9158	1,397.6508	NS	4,660.4727	615.2957
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0038	0.0035	0.0731	0.0565	0.0181	0.7120	0.0416
General	Methylene Blue Active Substances (MBAS)	pounds	0.1159	19.1051	234.7788	284.3260	NS	4,056.3374	887.6397
General	NH3-N	pounds	17.3876	5.5813	815.0813	383.6689	NS	1,985.0162	83.2162
General	Nitrate (NO3)	pounds	252.6996	242.5708	3,654.5764	1,455.8863	NS	14,801.3161	1,084.3326
General	Nitrate-N	pounds	56.7994	54.7394	823.9409	328.8590	NS	3,344.3207	244.6053
General	Nitrite-N	pounds	1.1476	0.1073	37.5646	37.3392	NS	21.5763	20.2997
General	Phosphorus- Total (as P)	pounds	3.4775	3.2200	119.6043	145.5886	NS	1,078.8131	50.4341
General	Sulfate	pounds	3,686.1680	3,305.8326	21,661.6710	4,898.6291	NS	68,180.9896	6,682.5147
General	Total Dissolved Solids	pounds	19,149.5268	18,332.3445	200,226.4883	50,699.0988	NS	543,721.8157	56,486.1617
General	Total Organic Carbon	pounds	261.9729	167.4383	8,815.2812	6,337.3873	NS	36,852.2564	10,515.5042
General	Total Petroleum Hydrocarbons	pounds	17.3876	16.0998	332.2342	256.9211	82.1454	3,236.4394	189.1278
General	Total Suspended Solids	pounds	1,251.9061	42.9329	66,003.8645	81,872.1933	39,648.8635	1,152,172.4190	100,615.9755
General	Volatile Suspended Solids	pounds	533.2193	21.4664	19,048.0951	27,747.4797	NS	315,013.4329	31,016.9549
Herbicides	2-4-5-TP-SILVEX	pounds	0.0008	0.0007	0.0148	0.0115	NS	0.1446	0.0084
Herbicides	2-4-D	pounds	0.0002	0.0002	0.0044	0.0034	NS	2.0541	0.2307
Herbicides	Glyphosate	pounds	0.0580	0.0537	2.3478	0.8564	NS	10.7881	0.6304

Table 4-9 Estimated Loads

Group	Parameter	Units	Dominguez Channel at Artesia Blvd. S28 2013-14Event08 10/15/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event14 3/5/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event09 11/21/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event10 11/29/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event12 12/19/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event13 2/27/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event15 4/1/2014
			Dry		Wet				
Metals	Aluminum	pounds	7.7665	3.7996	1,501.6987	1,791.5965	NS	12,945.7575	2,037.5365
Metals	Antimony	pounds	0.0682	0.0515	2.2769	2.9734	NS	21.5331	1.7778
Metals	Arsenic	pounds	0.0464	0.0365	0.8904	0.9729	NS	7.0339	0.5749
Metals	Barium	pounds	2.4343	2.0436	52.7145	40.4223	NS	350.8300	36.0604
Metals	Beryllium	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Cadmium	pounds	0.0012	0.0011	0.2950	0.2699	NS	1.4672	0.1808
Metals	Chromium	pounds	0.0631	0.0852	3.5748	4.0080	NS	41.4696	3.1521
Metals	Chromium +6	pounds	0.0029	0.0230	0.0554	0.0428	NS	0.5394	0.0315
Metals	Copper	pounds	0.4984	0.3671	33.2234	41.4499	NS	232.1606	28.4953
Metals	Dissolved Aluminum	pounds	0.5796	0.5367	301.2257	286.0388	NS	2,330.2364	302.6044
Metals	Dissolved Antimony	pounds	0.0501	0.0404	1.2403	1.3497	NS	9.7956	0.8347
Metals	Dissolved Barium	pounds	1.7851	1.5950	34.9953	22.6091	NS	201.0908	23.7292
Metals	Dissolved Beryllium	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Dissolved Iron	pounds	0.5796	0.5367	473.9875	390.5201	NS	2,943.0022	340.4300
Metals	Dissolved Mercury	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Dissolved Selenium	pounds	0.0427	0.0352	0.5271	0.0856	NS	1.0788	0.0630
Metals	Dissolved Thallium	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Iron	pounds	9.9225	4.2504	1,887.0904	2,141.0092	NS	14,456.0959	2,138.4047
Metals	Lead	pounds	0.0496	0.0223	6.1131	10.6537	NS	88.8942	7.6912
Metals	Mercury	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Nickel	pounds	0.1692	0.1365	5.4486	4.7273	NS	35.7303	4.1608
Metals	Selenium	pounds	0.0443	0.0431	0.5714	0.0856	NS	1.0788	0.0630
Metals	Silver	pounds	0.0012	0.0011	0.0221	0.0921	NS	0.2158	0.0126
Metals	Thallium	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals	Zinc	pounds	2.8516	1.2171	168.3320	214.1009	NS	1,182.3792	166.4324
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0350	0.0021	0.8417	0.7468	NS	4.8762	0.4716
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0012	0.0011	0.2073	0.2114	NS	1.4154	0.1445
Metals-CMCCCC	Dissolved Chromium	pounds	0.0512	0.0539	2.0643	1.2743	NS	10.6587	1.0566
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0029	0.0230	0.0554	0.0428	NS	0.5394	0.0315
Metals-CMCCCC	Dissolved Copper	pounds	0.3825	0.2898	25.2055	22.5405	NS	150.6023	17.4502
Metals-CMCCCC	Dissolved Lead	pounds	0.0304	0.0169	4.6513	7.4678	NS	64.7288	5.4973
Metals-CMCCCC	Dissolved Nickel	pounds	0.1120	0.0957	3.6679	2.6446	NS	18.1241	2.5469
Metals-CMCCCC	Dissolved Silver	pounds	0.0012	0.0011	0.0221	0.0171	NS	0.2158	0.0126
Metals-CMCCCC	Dissolved Zinc	pounds	1.0409	0.6204	117.8324	153.4675	NS	940.7250	151.3022
Organophosphate Pesticides	Atrazine	pounds	0.0077	0.0072	0.1477	0.1142	NS	1.4391	0.0841
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0002	0.0002	0.0044	0.0034	NS	0.0432	0.0025
Organophosphate Pesticides	Cyanazine	pounds	0.0077	0.0072	0.1477	0.1142	NS	1.4391	0.0841
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0000	0.0007	0.0005	NS	0.0065	0.0004
Organophosphate Pesticides	Malathion	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Organophosphate Pesticides	Prometryn	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Organophosphate Pesticides	Simazine	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0008	0.0007	0.0144	0.0111	NS	0.1402	0.0082
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.3478	0.3220	6.6447	5.1384	1.6429	64.7288	3.7826

Table 4-9 Estimated Loads

Group	Parameter	Units	Dominguez Channel at Artesia Blvd. S28 2013-14Event08 10/15/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event14 3/5/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event09 11/21/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event10 11/29/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event12 12/19/2013	Dominguez Channel at Artesia Blvd. S28 2013-14Event13 2/27/2014	Dominguez Channel at Artesia Blvd. S28 2013-14Event15 4/1/2014
			Dry		Wet				
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0058	0.0054	0.1107	0.0856	NS	1.0788	0.0630
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0058	0.0054	0.1107	0.0856	NS	1.0788	0.0630
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0058	0.0054	0.1107	0.0856	NS	1.0788	0.0630
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0038	0.0035	0.0731	0.0565	0.0181	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0004	0.0004	0.0073	0.0057	NS	0.0712	0.0042
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0116	0.0107	0.2215	0.1713	NS	2.1576	0.1261
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0078	0.0072	0.1484	0.1148	NS	1.4456	0.0845
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0002	0.0002	0.0038	0.0029	NS	0.0367	0.0021
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0004	0.0004	0.0073	0.0057	NS	0.0712	0.0042
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0002	0.0002	0.0038	0.0029	NS	0.0367	0.0021
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0194	0.0179	0.3699	0.2860	NS	3.6032	0.2106
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0008	0.0007	0.0148	0.0115	NS	0.1446	0.0084
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0038	0.0035	0.0731	0.0565	NS	0.7120	0.0416
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0002	0.0002	0.0038	0.0029	NS	0.0367	0.0021
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0002	0.0002	0.0038	0.0029	NS	0.0367	0.0021
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0386	0.0357	0.7376	0.5704	NS	7.1849	0.4199

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Santa Clara River S29 2013-14Event08 10/15/2013	Santa Clara River S29 2013-14Event14 3/5/2014	Santa Clara River S29 2013-14Event09 11/21/2013	Santa Clara River S29 2013-14Event13 2/27/2014	Santa Clara River S29 2013-14Event15 4/1/2014
			Dry		Wet		
Bacteria	E. Coli	MPN	1.716E+08	6.286E+06	6.697E+10	1.834E+10	2.811E+09
Bacteria	Fecal Coliform	MPN	6.728E+07	1.257E+08	4.865E+10	1.005E+11	3.241E+09
Bacteria	Fecal Enterococcus	MPN	1.547E+09	1.257E+08	4.865E+11	4.691E+11	2.593E+10
Bacteria	Fecal Streptococcus	MPN	1.547E+09	1.257E+08	4.865E+11	4.691E+11	5.401E+10
Bacteria	Total Coliform	MPN	8.747E+09	1.257E+08	8.108E+10	5.361E+11	2.593E+11
Chlorinated Pesticides	4-4'-DDD	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	4-4'-DDT	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Chlorinated Pesticides	Endrin	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	Methoxychlor	pounds	0.0004	0.0007	0.0009	0.0018	0.0006
Chlorinated Pesticides	Toxaphene	pounds	0.0002	0.0003	0.0004	0.0009	0.0003
Chlorinated Pesticides	alpha-BHC	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	alpha-chlordane	pounds	0.0000	0.0000	0.0001	0.0001	0.0000
Chlorinated Pesticides	beta-BHC	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	delta-BHC	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Chlorinated Pesticides	gamma-chlordane	pounds	0.0000	0.0000	0.0001	0.0001	0.0000
Conventionals	Cyanide	pounds	0.0037	0.0069	0.0089	0.0185	0.0060
Conventionals	Dissolved Oxygen	pounds	11.2432	9.5627	25.3456	35.3070	6.9064
Conventionals	Oil and Grease	pounds	1.0680	1.9957	2.5739	5.3182	1.7147
General	Alkalinity as CaCO3	pounds	249.1898	690.1741	800.7642	1,551.1441	595.3835
General	Ammonia	pounds	0.3590	0.5377	2.4666	3.1318	1.1812
General	BioChemical Oxygen Demand- Five-Day	pounds	0.7416	1.3859	34.2112	39.3695	1.1908
General	Chemical Oxygen Demand	pounds	7.4164	13.8589	92.9458	221.5920	11.9077
General	Chloride	pounds	179.4760	327.0704	378.9331	673.6397	257.2057
General	Dissolved Phosphorus	pounds	0.3857	0.6431	0.9295	1.9205	0.5716
General	Fluoride	pounds	0.7861	1.3499	1.6230	3.7671	1.1789
General	Hardness as CaCO3	pounds	711.9708	1,205.7258	1,412.0619	2,659.1042	1,088.3610
General	Kjeldahl-N	pounds	1.2459	2.7718	6.2917	5.3182	1.7147
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
General	Methylene Blue Active Substances (MBAS)	pounds	0.0074	0.0139	0.0179	7.0909	0.0119
General	NH3-N	pounds	0.2967	0.4435	2.0377	2.5852	0.9764
General	Nitrate (NO3)	pounds	10.7241	12.4453	24.1659	51.7787	12.7174
General	Nitrate-N	pounds	2.4177	2.7995	5.4695	11.6705	2.8817
General	Nitrite-N	pounds	0.0074	0.0139	0.1630	0.4964	0.0119
General	Phosphorus- Total (as P)	pounds	0.4301	0.6514	0.9652	2.7330	0.6192
General	Sulfate	pounds	396.0338	651.3691	761.4410	1,484.6665	559.6605
General	Total Dissolved Solids	pounds	1,391.3096	2,599.9328	2,738.3276	5,451.1636	2,081.4607
General	Total Organic Carbon	pounds	2.1359	7.4284	29.6354	82.7277	4.4535
General	Total Petroleum Hydrocarbons	pounds	1.1125	2.0788	2.6811	5.5398	1.7862
General	Total Suspended Solids	pounds	11.8662	1.3859	96.5207	1,543.7577	1.1908
General	Volatile Suspended Solids	pounds	11.8662	1.3859	28.5987	339.7744	1.1908
Herbicides	2-4-5-TP-SILVEX	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Herbicides	2-4-D	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Herbicides	Glyphosate	pounds	0.0037	0.0069	0.0089	0.0185	0.0060

Table 4-9 Estimated Loads

Group	Parameter	Units	Santa Clara River S29 2013-14Event08 10/15/2013	Santa Clara River S29 2013-14Event14 3/5/2014	Santa Clara River S29 2013-14Event09 11/21/2013	Santa Clara River S29 2013-14Event13 2/27/2014	Santa Clara River S29 2013-14Event15 4/1/2014
			Dry		Wet		
Metals	Aluminum	pounds	0.0371	0.0693	5.4695	29.1763	0.0595
Metals	Antimony	pounds	0.0001	0.0003	0.0048	0.0246	0.0012
Metals	Arsenic	pounds	0.0023	0.0046	0.0060	0.0160	0.0040
Metals	Barium	pounds	0.0909	0.2938	0.2670	1.4403	0.1712
Metals	Beryllium	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Cadmium	pounds	0.0001	0.0001	0.0002	0.0039	0.0001
Metals	Chromium	pounds	0.0019	0.0045	0.0147	0.0586	0.0088
Metals	Chromium +6	pounds	0.0002	0.0003	0.0004	0.0009	0.0003
Metals	Copper	pounds	0.0091	0.0122	0.0372	0.2637	0.0096
Metals	Dissolved Aluminum	pounds	0.0371	0.0693	0.8294	7.7557	0.0595
Metals	Dissolved Antimony	pounds	0.0001	0.0003	0.0028	0.0116	0.0002
Metals	Dissolved Barium	pounds	0.0724	0.2181	0.1934	0.6766	0.1460
Metals	Dissolved Beryllium	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Dissolved Iron	pounds	0.0371	0.0693	1.7016	12.0398	0.0595
Metals	Dissolved Mercury	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Dissolved Selenium	pounds	0.0066	0.0098	0.0118	0.0252	0.0103
Metals	Dissolved Thallium	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Iron	pounds	0.2106	0.0693	8.1149	36.5627	0.2739
Metals	Lead	pounds	0.0009	0.0003	0.0064	0.2578	0.0002
Metals	Mercury	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Nickel	pounds	0.0209	0.0405	0.0529	0.1285	0.0336
Metals	Selenium	pounds	0.0067	0.0105	0.0128	0.0302	0.0122
Metals	Silver	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Thallium	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals	Zinc	pounds	0.2062	0.1245	0.2556	1.1966	0.0995
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0001	0.0003	0.0004	0.0114	0.0002
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0001	0.0001	0.0002	0.0032	0.0001
Metals-CMCCCC	Dissolved Chromium	pounds	0.0016	0.0034	0.0123	0.0379	0.0027
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0002	0.0003	0.0004	0.0009	0.0003
Metals-CMCCCC	Dissolved Copper	pounds	0.0046	0.0096	0.0248	0.1765	0.0066
Metals-CMCCCC	Dissolved Lead	pounds	0.0001	0.0003	0.0035	0.1854	0.0002
Metals-CMCCCC	Dissolved Nickel	pounds	0.0168	0.0333	0.0386	0.0886	0.0281
Metals-CMCCCC	Dissolved Silver	pounds	0.0001	0.0001	0.0002	0.0004	0.0001
Metals-CMCCCC	Dissolved Zinc	pounds	0.0322	0.0540	0.0890	0.8938	0.0464
Organophosphate Pesticides	Atrazine	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Organophosphate Pesticides	Cyanazine	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0000	0.0000	0.0000	0.0000
Organophosphate Pesticides	Malathion	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Organophosphate Pesticides	Prometryn	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Organophosphate Pesticides	Simazine	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0025	0.0046	0.0060	0.0123	0.0040
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.0222	0.0416	0.0536	0.1108	0.0357

Table 4-9 Estimated Loads

Group	Parameter	Units	Santa Clara River S29 2013-14Event08 10/15/2013	Santa Clara River S29 2013-14Event14 3/5/2014	Santa Clara River S29 2013-14Event09 11/21/2013	Santa Clara River S29 2013-14Event13 2/27/2014	Santa Clara River S29 2013-14Event15 4/1/2014
			Dry		Wet		
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0004	0.0007	0.0009	0.0018	0.0006
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0004	0.0007	0.0009	0.0018	0.0006
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0004	0.0007	0.0009	0.0018	0.0006
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0025	0.0046	0.0060	0.0123	0.0040
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0025	0.0046	0.0060	0.0123	0.0040
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0025	0.0046	0.0060	0.0123	0.0040
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0000	0.0000	0.0001	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0007	0.0014	0.0018	0.0037	0.0012
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0005	0.0009	0.0012	0.0025	0.0008
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0000	0.0000	0.0001	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0012	0.0023	0.0030	0.0062	0.0020
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0000	0.0001	0.0001	0.0002	0.0001
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0002	0.0005	0.0006	0.0012	0.0004
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0000	0.0000	0.0000	0.0001	0.0000
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0025	0.0046	0.0060	0.0123	0.0040
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0025	0.0046	0.0060	0.0123	0.0040

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Upper Las Virgenes Creek TS25 2013-14Event08 10/15/2013	Upper Las Virgenes Creek TS25 2013-14Event14 3/5/2014	Upper Las Virgenes Creek TS25 2013-14Event13 2/27/2014	Cheseboro Canyon TS26 2013-14Event08 10/15/2013	Cheseboro Canyon TS26 2013-14Event14 3/5/2014	Cheseboro Canyon TS26 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet
Bacteria	E. Coli	MPN	2.310E+10	1.640E+06	2.141E+13	1.229E+09	2.342E+06	1.281E+11
Bacteria	Fecal Coliform	MPN	7.295E+10	3.280E+07	4.713E+13	2.560E+09	4.684E+07	2.433E+11
Bacteria	Fecal Enterococcus	MPN	4.053E+11	3.280E+07	7.069E+13	1.600E+10	4.684E+07	2.433E+11
Bacteria	Fecal Streptococcus	MPN	4.053E+11	3.280E+07	7.069E+13	2.880E+10	4.684E+07	1.379E+12
Bacteria	Total Coliform	MPN	4.053E+11	3.280E+07	4.713E+13	2.880E+10	4.684E+07	2.433E+12
Chlorinated Pesticides	4-4'-DDD	pounds	0.0000	0.0000	0.0036	0.0000	0.0000	0.0001
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000
Chlorinated Pesticides	4-4'-DDT	pounds	0.0000	0.0000	0.0032	0.0000	0.0000	0.0001
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0000	0.0006	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0000	0.0000	0.0032	0.0000	0.0000	0.0001
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0000	0.0000	0.0162	0.0000	0.0000	0.0004
Chlorinated Pesticides	Endrin	pounds	0.0000	0.0000	0.0019	0.0000	0.0000	0.0001
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0000	0.0000	0.0032	0.0000	0.0000	0.0001
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0000	0.0010	0.0000	0.0000	0.0000
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0000	0.0000	0.0032	0.0000	0.0000	0.0001
Chlorinated Pesticides	Methoxychlor	pounds	0.0004	0.0002	0.1623	0.0002	0.0003	0.0045
Chlorinated Pesticides	Toxaphene	pounds	0.0002	0.0001	0.0779	0.0001	0.0001	0.0021
Chlorinated Pesticides	alpha-BHC	pounds	0.0000	0.0000	0.0032	0.0000	0.0000	0.0001
Chlorinated Pesticides	alpha-chlordane	pounds	0.0000	0.0000	0.0107	0.0000	0.0000	0.0003
Chlorinated Pesticides	beta-BHC	pounds	0.0000	0.0000	0.0016	0.0000	0.0000	0.0000
Chlorinated Pesticides	delta-BHC	pounds	0.0000	0.0000	0.0016	0.0000	0.0000	0.0000
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0000	0.0013	0.0000	0.0000	0.0000
Chlorinated Pesticides	gamma-chlordane	pounds	0.0000	0.0000	0.0107	0.0000	0.0000	0.0003
Conventionals	Cyanide	pounds	0.0107	0.0018	1.6234	0.0018	0.0026	0.0447
Conventionals	Dissolved Oxygen	pounds	22.3376	4.4109	6,000.1529	7.5496	4.3785	165.9208
Conventionals	Oil and Grease	pounds	1.2866	0.5206	467.5444	0.5080	0.7435	12.8732
General	Alkalinity as CaCO3	pounds	362.7624	112.0798	52,598.7430	154.5190	423.3958	1,090.6432
General	Ammonia	pounds	1.0168	0.4722	681.8356	0.8678	0.3501	14.7147
General	BioChemical Oxygen Demand- Five-Day	pounds	4.1101	2.4874	5,331.3047	12.7002	2.8295	127.1225
General	Chemical Oxygen Demand	pounds	8.9350	14.4619	70,131.6573	31.0449	5.1634	536.3819
General	Chloride	pounds	784.4961	178.6046	43,702.4124	220.1366	290.1810	323.6171
General	Dissolved Phosphorus	pounds	0.5540	0.0477	279.2279	0.1976	0.0723	5.0062
General	Fluoride	pounds	1.5690	0.4201	142.2114	0.4410	0.4471	3.2541
General	Hardness as CaCO3	pounds	2,001.4478	1,084.6435	149,354.4554	1,008.9595	1,497.3755	2,234.9246
General	Kjeldahl-N	pounds	8.0058	1.3883	1,246.7850	1.8909	1.3218	20.7401
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
General	Methylene Blue Active Substances (MBAS)	pounds	0.0089	0.0036	3.2468	0.4092	0.0052	14.6611
General	NH3-N	pounds	0.8399	0.3905	564.9495	0.7197	0.2891	12.1580
General	Nitrate (NO3)	pounds	19.2997	1.5113	2,766.3043	0.0353	0.0516	60.7899
General	Nitrate-N	pounds	4.3603	0.3413	624.6912	0.0106	0.0155	13.7314
General	Nitrite-N	pounds	0.1145	0.0036	26.2344	0.0035	0.0052	1.1353
General	Phosphorus- Total (as P)	pounds	0.5897	0.0506	350.6583	0.2046	0.1239	5.9002
General	Sulfate	pounds	1,517.1689	1,012.3339	92,210.1420	1,051.2934	1,466.3953	1,113.8864
General	Total Dissolved Solids	pounds	4,092.2460	2,104.2083	300,007.6451	2,109.6425	3,087.6915	4,434.0904
General	Total Organic Carbon	pounds	18.9423	5.9005	4,578.0387	13.8997	6.9602	230.6442
General	Total Petroleum Hydrocarbons	pounds	1.3403	0.5423	487.0254	0.5292	0.7745	13.4095
General	Total Suspended Solids	pounds	17.8701	2.8924	290,916.5043	6.3501	2.0653	26,461.5071
General	Volatile Suspended Solids	pounds	14.2961	2.8924	46,105.0710	4.9390	1.0327	4,380.4522
Herbicides	2-4-5-TP-SILVEX	pounds	0.0001	0.0000	0.0218	0.0000	0.0000	0.0006
Herbicides	2-4-D	pounds	0.0000	0.0000	0.0065	0.0000	0.0000	0.0002
Herbicides	Glyphosate	pounds	0.0045	0.0018	1.6234	0.0018	0.0026	0.0447

Table 4-9 Estimated Loads

Group	Parameter	Units	Upper Las Virgenes Creek TS25 2013-14Event08 10/15/2013	Upper Las Virgenes Creek TS25 2013-14Event14 3/5/2014	Upper Las Virgenes Creek TS25 2013-14Event13 2/27/2014	Cheseboro Canyon TS26 2013-14Event08 10/15/2013	Cheseboro Canyon TS26 2013-14Event14 3/5/2014	Cheseboro Canyon TS26 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet
Metals	Aluminum	pounds	0.0447	0.0181	7,922.2798	0.0176	0.0258	364.7397
Metals	Antimony	pounds	0.0019	0.0004	1.6169	0.0007	0.0005	0.0510
Metals	Arsenic	pounds	0.0090	0.0038	2.7533	0.0019	0.0029	0.0470
Metals	Barium	pounds	0.1162	0.0273	123.3798	0.0183	0.0357	3.0753
Metals	Beryllium	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Cadmium	pounds	0.0001	0.0003	2.0260	0.0000	0.0001	0.0622
Metals	Chromium	pounds	0.0048	0.0014	15.6497	0.0014	0.0027	0.5596
Metals	Chromium +6	pounds	0.0002	0.0001	0.0812	0.0001	0.0001	0.0022
Metals	Copper	pounds	0.0213	0.0068	35.9749	0.0087	0.0077	0.8832
Metals	Dissolved Aluminum	pounds	0.0447	0.0181	909.1141	0.0176	0.0258	30.2162
Metals	Dissolved Antimony	pounds	0.0014	0.0001	0.4708	0.0005	0.0001	0.0181
Metals	Dissolved Barium	pounds	0.0890	0.0208	46.8194	0.0128	0.0263	1.1318
Metals	Dissolved Beryllium	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Dissolved Iron	pounds	0.0447	0.0181	1,103.9242	0.0176	0.0258	38.0831
Metals	Dissolved Mercury	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Dissolved Selenium	pounds	0.0391	0.0274	2.9286	0.0080	0.0181	0.0586
Metals	Dissolved Thallium	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Iron	pounds	0.2591	0.0181	10,714.5588	0.1185	0.1105	486.3196
Metals	Lead	pounds	0.0019	0.0001	5.8508	0.0008	0.0001	0.4488
Metals	Mercury	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Nickel	pounds	0.0393	0.0275	28.0527	0.0111	0.0166	0.6955
Metals	Selenium	pounds	0.0406	0.0283	4.0261	0.0087	0.0194	0.0665
Metals	Silver	pounds	0.0001	0.0000	0.3286	0.0000	0.0001	0.0009
Metals	Thallium	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals	Zinc	pounds	0.1344	0.0207	116.8861	0.0516	0.0248	5.2565
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0070	0.0022	1.7728	0.0014	0.0012	0.0240
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0001	0.0003	1.4935	0.0000	0.0001	0.0359
Metals-CMCCCC	Dissolved Chromium	pounds	0.0044	0.0009	2.6494	0.0011	0.0018	0.0676
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0002	0.0001	0.0812	0.0001	0.0001	0.0022
Metals-CMCCCC	Dissolved Copper	pounds	0.0147	0.0056	18.3122	0.0047	0.0064	0.3558
Metals-CMCCCC	Dissolved Lead	pounds	0.0011	0.0001	2.5001	0.0001	0.0001	0.1985
Metals-CMCCCC	Dissolved Nickel	pounds	0.0313	0.0222	11.8834	0.0079	0.0128	0.1913
Metals-CMCCCC	Dissolved Silver	pounds	0.0001	0.0000	0.0325	0.0000	0.0001	0.0009
Metals-CMCCCC	Dissolved Zinc	pounds	0.0447	0.0115	68.1836	0.0200	0.0106	2.6998
Organophosphate Pesticides	Atrazine	pounds	0.0006	0.0002	0.2166	0.0002	0.0003	0.0060
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0000	0.0000	0.0065	0.0000	0.0000	0.0002
Organophosphate Pesticides	Cyanazine	pounds	0.0006	0.0002	0.2166	0.0002	0.0003	0.0060
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0000	0.0010	0.0000	0.0000	0.0000
Organophosphate Pesticides	Malathion	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Organophosphate Pesticides	Prometryn	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Organophosphate Pesticides	Simazine	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0001	0.0000	0.0211	0.0000	0.0000	0.0006
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.0268	0.0108	9.7405	0.0106	0.0155	0.2682

Table 4-9 Estimated Loads

Group	Parameter	Units	Upper Las Virgenes Creek TS25 2013-14Event08 10/15/2013	Upper Las Virgenes Creek TS25 2013-14Event14 3/5/2014	Upper Las Virgenes Creek TS25 2013-14Event13 2/27/2014	Cheseboro Canyon TS26 2013-14Event08 10/15/2013	Cheseboro Canyon TS26 2013-14Event14 3/5/2014	Cheseboro Canyon TS26 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0004	0.0002	0.1623	0.0002	0.0003	0.0045
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0004	0.0002	0.1623	0.0002	0.0003	0.0045
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0004	0.0002	0.1623	0.0002	0.0003	0.0045
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0000	0.0000	0.0107	0.0000	0.0000	0.0003
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0009	0.0004	0.3247	0.0004	0.0005	0.0089
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0006	0.0002	0.2175	0.0002	0.0003	0.0060
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0000	0.0000	0.0055	0.0000	0.0000	0.0002
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0000	0.0000	0.0107	0.0000	0.0000	0.0003
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0000	0.0000	0.0055	0.0000	0.0000	0.0002
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0015	0.0006	0.5422	0.0006	0.0009	0.0149
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0001	0.0000	0.0218	0.0000	0.0000	0.0006
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0003	0.0001	0.1071	0.0001	0.0002	0.0030
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0000	0.0000	0.0055	0.0000	0.0000	0.0002
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0000	0.0000	0.0055	0.0000	0.0000	0.0002
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0030	0.0012	1.0812	0.0012	0.0017	0.0298

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Lower Lindero Creek TS27 2013-14Event08 10/15/2013	Lower Lindero Creek TS27 2013-14Event14 3/5/2014	Lower Lindero Creek TS27 2013-14Event13 2/27/2014	Medea Creek TS28 2013-14Event08 10/15/2013	Medea Creek TS28 2013-14Event14 3/5/2014	Medea Creek TS28 2013-14Event09 11/21/2013	Medea Creek TS28 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet	
Bacteria	E. Coli	MPN	1.344E+10	6.274E+06	1.321E+14	1.981E+10	5.156E+07	4.741E+12	3.121E+13
Bacteria	Fecal Coliform	MPN	4.267E+10	1.255E+08	1.462E+15	2.405E+10	1.031E+09	5.366E+12	1.539E+14
Bacteria	Fecal Enterococcus	MPN	3.103E+11	1.255E+08	1.462E+15	4.123E+11	1.031E+09	9.390E+12	2.172E+13
Bacteria	Fecal Streptococcus	MPN	3.103E+11	1.255E+08	1.462E+15	4.123E+11	1.031E+09	9.390E+12	2.172E+13
Bacteria	Total Coliform	MPN	9.698E+11	1.255E+08	1.462E+15	2.405E+11	1.031E+09	5.366E+13	2.715E+15
Chlorinated Pesticides	4-4'-DDD	pounds	0.0000	0.0000	0.0197	0.0002	0.0001	0.0004	0.0110
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0000	0.0072	0.0001	0.0000	0.0001	0.0040
Chlorinated Pesticides	4-4'-DDT	pounds	0.0000	0.0000	0.0179	0.0002	0.0001	0.0004	0.0100
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0000	0.0072	0.0001	0.0000	0.0001	0.0040
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0000	0.0036	0.0000	0.0000	0.0001	0.0020
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0000	0.0000	0.0179	0.0002	0.0001	0.0004	0.0100
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0000	0.0072	0.0001	0.0000	0.0001	0.0040
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0001	0.0001	0.0895	0.0009	0.0006	0.0018	0.0499
Chlorinated Pesticides	Endrin	pounds	0.0000	0.0000	0.0107	0.0001	0.0001	0.0002	0.0060
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0000	0.0000	0.0179	0.0002	0.0001	0.0004	0.0100
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0000	0.0054	0.0001	0.0000	0.0001	0.0030
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0000	0.0000	0.0179	0.0002	0.0001	0.0004	0.0100
Chlorinated Pesticides	Methoxychlor	pounds	0.0011	0.0007	0.8953	0.0095	0.0057	0.0185	0.4989
Chlorinated Pesticides	Toxaphene	pounds	0.0005	0.0003	0.4297	0.0045	0.0027	0.0089	0.2395
Chlorinated Pesticides	alpha-BHC	pounds	0.0000	0.0000	0.0179	0.0002	0.0001	0.0004	0.0100
Chlorinated Pesticides	alpha-chlordane	pounds	0.0001	0.0000	0.0591	0.0006	0.0004	0.0012	0.0329
Chlorinated Pesticides	beta-BHC	pounds	0.0000	0.0000	0.0090	0.0001	0.0001	0.0002	0.0050
Chlorinated Pesticides	delta-BHC	pounds	0.0000	0.0000	0.0090	0.0001	0.0001	0.0002	0.0050
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0000	0.0072	0.0001	0.0000	0.0001	0.0040
Chlorinated Pesticides	gamma-chlordane	pounds	0.0001	0.0000	0.0591	0.0006	0.0004	0.0012	0.0329
Conventionals	Cyanide	pounds	0.0107	0.0069	8.9527	0.0947	0.0568	0.1848	4.9887
Conventionals	Dissolved Oxygen	pounds	44.8990	12.7814	32,516.2866	484.7243	187.1006	1,219.8985	16,203.3950
Conventionals	Oil and Grease	pounds	3.0788	1.9919	2,578.3840	27.2657	16.3685	53.2319	1,436.7542
General	Alkalinity as CaCO3	pounds	1,021.9871	467.5434	340,203.4390	8,331.1990	4,865.0695	16,782.8462	141,679.9320
General	Ammonia	pounds	1.1374	0.7359	519.2579	13.7465	10.7304	271.3350	554.7468
General	BioChemical Oxygen Demand- Five-Day	pounds	8.5950	8.5762	25,031.8109	18.9345	11.3670	191.4871	11,952.9971
General	Chemical Oxygen Demand	pounds	21.3805	13.8326	17,905.4442	189.3454	113.6698	3,696.6622	9,977.4600
General	Chloride	pounds	979.2261	539.4732	350,230.4877	9,694.4862	6,092.7039	12,051.1186	134,296.6116
General	Dissolved Phosphorus	pounds	1.0263	0.3596	393.9198	3.6354	3.1373	38.4453	458.9632
General	Fluoride	pounds	2.6897	1.3169	1,102.9754	30.9769	16.3457	35.9316	480.9136
General	Hardness as CaCO3	pounds	4,276.0966	2,586.7047	1,325,002.8675	51,123.2668	31,827.5578	58,037.5959	518,827.9198
General	Kjeldahl-N	pounds	4.9603	3.0985	3,867.5759	40.8986	32.7369	295.7330	1,596.3936
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
General	Methylene Blue Active Substances (MBAS)	pounds	0.0214	0.0138	17.9054	0.1893	0.1137	0.3697	997.7460
General	NH3-N	pounds	0.9407	0.6086	429.7307	11.3607	8.8662	224.0177	458.9632
General	Nitrate (NO3)	pounds	27.7946	11.8407	7,914.2063	1.8935	1.1367	543.4093	6,166.0703
General	Nitrate-N	pounds	6.2859	2.6725	1,790.5444	0.5680	0.3410	122.7292	1,388.8624
General	Nitrite-N	pounds	0.0214	0.0138	17.9054	0.1893	0.1137	4.2216	9.9775
General	Phosphorus- Total (as P)	pounds	1.1118	0.3873	716.2178	3.6733	3.1828	39.1846	518.8279
General	Sulfate	pounds	3,694.5475	1,823.1427	1,178,178.2255	45,064.2130	26,144.0653	46,947.6094	389,120.9399
General	Total Dissolved Solids	pounds	8,723.2371	4,675.4342	2,771,762.7553	95,051.4072	57,744.2834	111,639.1972	1,037,655.8396
General	Total Organic Carbon	pounds	33.6956	15.7969	30,009.5244	238.9539	117.0799	1,286.4384	18,797.5346
General	Total Petroleum Hydrocarbons	pounds	3.2071	2.0749	2,685.8166	28.4018	17.0505	55.4499	1,496.6190
General	Total Suspended Solids	pounds	68.4175	22.1322	655,339.2561	2,726.5742	11.3670	24,989.4362	243,450.0239
General	Volatile Suspended Solids	pounds	34.2088	16.5992	307,973.6395	681.6436	11.3670	5,544.9932	51,882.7920
Herbicides	2-4-5-TP-SILVEX	pounds	0.0001	0.0001	0.1200	0.0013	0.0008	0.0025	0.0668
Herbicides	2-4-D	pounds	0.0000	0.0000	0.0358	0.0004	0.0002	0.0007	0.0200
Herbicides	Glyphosate	pounds		0.0069	8.9527		0.0568	0.1848	4.9887

Table 4-9 Estimated Loads

Group	Parameter	Units	Lower Lindero Creek TS27 2013-14Event08 10/15/2013	Lower Lindero Creek TS27 2013-14Event14 3/5/2014	Lower Lindero Creek TS27 2013-14Event13 2/27/2014	Medea Creek TS28 2013-14Event08 10/15/2013	Medea Creek TS28 2013-14Event14 3/5/2014	Medea Creek TS28 2013-14Event09 11/21/2013	Medea Creek TS28 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet	
Metals	Aluminum	pounds	0.5901	0.4897	11,960.8367	0.9467	0.5683	204.7951	5,068.5497
Metals	Antimony	pounds	0.0025	0.0003	7.0906	0.0226	0.0023	0.1575	3.0331
Metals	Arsenic	pounds	0.0082	0.0042	5.4433	0.0769	0.0400	0.1745	2.6340
Metals	Barium	pounds	0.1779	0.1013	193.7369	1.4049	1.1185	5.9294	90.3958
Metals	Beryllium	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Cadmium	pounds	0.0119	0.0032	9.4183	0.0693	0.0318	0.7837	8.8999
Metals	Chromium	pounds	0.0078	0.0046	29.5440	0.0784	0.0298	0.4621	12.6115
Metals	Chromium +6	pounds	0.0005	0.0003	0.4476	0.0047	0.0028	0.0092	0.2494
Metals	Copper	pounds	0.0560	0.0211	90.2434	0.3151	0.1300	3.0682	53.6787
Metals	Dissolved Aluminum	pounds	0.1069	0.0692	1,314.2596	0.9467	0.5683	36.8927	564.7242
Metals	Dissolved Antimony	pounds	0.0004	0.0003	2.8112	0.0038	0.0023	0.0705	1.3889
Metals	Dissolved Barium	pounds	0.1304	0.0764	100.2705	1.0338	0.8480	3.2826	49.4882
Metals	Dissolved Beryllium	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Dissolved Iron	pounds	0.1069	0.0692	2,793.2493	0.9467	0.5683	105.7245	1,476.6641
Metals	Dissolved Mercury	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Dissolved Selenium	pounds	0.0182	0.0154	6.5534	0.1946	0.1557	0.3445	4.0508
Metals	Dissolved Thallium	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Iron	pounds	0.9279	0.6169	16,580.4413	7.0437	0.5683	342.3109	7,443.1852
Metals	Lead	pounds	0.0028	0.0003	15.6135	0.0038	0.0114	0.3808	7.2436
Metals	Mercury	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Nickel	pounds	0.0804	0.0456	60.8785	0.8975	0.5479	2.3067	29.3337
Metals	Selenium	pounds	0.0203	0.0155	7.7710	0.2060	0.1591	0.3955	5.6872
Metals	Silver	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Thallium	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals	Zinc	pounds	0.3305	0.0902	401.0819	2.4388	0.6275	12.4947	198.3519
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0004	0.0003	0.3581	0.0038	0.0023	0.1449	0.1995
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0092	0.0025	7.1264	0.0583	0.0268	0.6070	6.5851
Metals-CMCCCC	Dissolved Chromium	pounds	0.0041	0.0041	8.4872	0.1401	0.0246	0.3127	3.0132
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0005	0.0003	0.4476	0.0047	0.0028	0.0092	0.2494
Metals-CMCCCC	Dissolved Copper	pounds	0.0363	0.0165	44.4055	0.1920	0.1018	2.0997	30.1319
Metals-CMCCCC	Dissolved Lead	pounds	0.0004	0.0003	7.5919	0.0038	0.0023	0.2684	4.0508
Metals-CMCCCC	Dissolved Nickel	pounds	0.0650	0.0354	36.8852	0.7309	0.4297	1.7744	18.6379
Metals-CMCCCC	Dissolved Silver	pounds	0.0002	0.0001	0.1791	0.0019	0.0011	0.0037	0.0998
Metals-CMCCCC	Dissolved Zinc	pounds	0.0834	0.0335	214.1491	0.4696	0.2523	9.3156	109.7521
Organophosphate Pesticides	Atrazine	pounds	0.0014	0.0009	1.1943	0.0126	0.0076	0.0247	0.6655
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0000	0.0000	0.0358	0.0004	0.0002	0.0007	0.0200
Organophosphate Pesticides	Cyanazine	pounds	0.0014	0.0009	1.1943	0.0126	0.0076	0.0247	0.6655
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0000	0.0054	0.0001	0.0000	0.0001	0.0030
Organophosphate Pesticides	Malathion	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Organophosphate Pesticides	Prometryn	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Organophosphate Pesticides	Simazine	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0001	0.0001	0.1164	0.0012	0.0007	0.0024	0.0649
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.0641	0.0415	53.7163	0.5680	0.3410	1.1090	29.9324

Table 4-9 Estimated Loads

Group	Parameter	Units	Lower Lindero Creek TS27 2013-14Event08 10/15/2013	Lower Lindero Creek TS27 2013-14Event14 3/5/2014	Lower Lindero Creek TS27 2013-14Event13 2/27/2014	Medea Creek TS28 2013-14Event08 10/15/2013	Medea Creek TS28 2013-14Event14 3/5/2014	Medea Creek TS28 2013-14Event09 11/21/2013	Medea Creek TS28 2013-14Event13 2/27/2014
			Dry		Wet	Dry		Wet	
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0011	0.0007	0.8953	0.0095	0.0057	0.0185	0.4989
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0011	0.0007	0.8953	0.0095	0.0057	0.0185	0.4989
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0011	0.0007	0.8953	0.0095	0.0057	0.0185	0.4989
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0036	0.0023	30.4393	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0001	0.0000	0.0591	0.0006	0.0004	0.0012	0.0329
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0021	0.0014	1.7905	0.0189	0.0114	0.0370	0.9977
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0014	0.0009	1.1997	0.0127	0.0076	0.0248	0.6685
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0000	0.0000	0.0304	0.0003	0.0002	0.0006	0.0170
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0001	0.0000	0.0591	0.0006	0.0004	0.0012	0.0329
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0000	0.0000	0.0304	0.0003	0.0002	0.0006	0.0170
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0036	0.0023	2.9902	0.0316	0.0190	0.0617	1.6662
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0001	0.0001	0.1200	0.0013	0.0008	0.0025	0.0668
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0007	0.0005	0.5909	0.0062	0.0038	0.0122	0.3293
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0000	0.0000	0.0304	0.0003	0.0002	0.0006	0.0170
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0000	0.0000	0.0304	0.0003	0.0002	0.0006	0.0170
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0071	0.0046	5.9625	0.0631	0.0379	0.1231	3.3225

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled

Table 4-9 Estimated Loads

Group	Parameter	Units	Liberty Canyon Channel TS29 2013-14Event08 10/15/2013	Liberty Canyon Channel TS29 -2013-14Event14 3/5/2014	Liberty Canyon Channel TS29 2013-14Event09 11/21/2013	Liberty Canyon Channel TS29 2013-14Event13 2/27/2014	PD 728 at Foxfield Dr. TS30 2013-14Event08 10/15/2013	PD 728 at Foxfield Dr. TS30 2013-14Event14 3/5/2014	PD 728 at Foxfield Dr. TS30 2013-14Event13 2/27/2014
			Dry		Wet		Dry		Wet
Bacteria	E. Coli	MPN	1.277E+10	3.242E+06	5.576E+12	2.800E+13	1.106E+10	1.184E+07	2.265E+13
Bacteria	Fecal Coliform	MPN	1.744E+10	6.483E+07	8.921E+12	4.532E+13	1.123E+10	2.367E+08	5.101E+13
Bacteria	Fecal Enterococcus	MPN	3.115E+11	6.483E+07	8.921E+12	8.094E+12	4.211E+11	2.367E+08	1.113E+14
Bacteria	Fecal Streptococcus	MPN	3.115E+11	6.483E+07	8.921E+12	8.094E+12	4.211E+11	2.367E+08	1.113E+14
Bacteria	Total Coliform	MPN	2.180E+11	6.483E+07	8.921E+12	5.666E+13	2.246E+11	2.367E+08	1.299E+14
Chlorinated Pesticides	4-4'-DDD	pounds	0.0000	0.0000	0.0000	0.0020	0.0000	0.0000	0.0056
Chlorinated Pesticides	4-4'-DDE	pounds	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000	0.0020
Chlorinated Pesticides	4-4'-DDT	pounds	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0051
Chlorinated Pesticides	Aldrin	pounds	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000	0.0020
Chlorinated Pesticides	Dieldrin	pounds	0.0000	0.0000	0.0000	0.0004	0.0000	0.0000	0.0010
Chlorinated Pesticides	Endosulfan I (alpha)	pounds	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0051
Chlorinated Pesticides	Endosulfan II (beta)	pounds	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000	0.0020
Chlorinated Pesticides	Endosulfan sulfate	pounds	0.0000	0.0000	0.0002	0.0089	0.0001	0.0001	0.0256
Chlorinated Pesticides	Endrin	pounds	0.0000	0.0000	0.0000	0.0011	0.0000	0.0000	0.0031
Chlorinated Pesticides	Endrin aldehyde	pounds	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0051
Chlorinated Pesticides	Heptachlor	pounds	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000	0.0015
Chlorinated Pesticides	Heptachlor Epoxide	pounds	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0051
Chlorinated Pesticides	Methoxychlor	pounds	0.0003	0.0004	0.0020	0.0892	0.0008	0.0013	0.2556
Chlorinated Pesticides	Toxaphene	pounds	0.0002	0.0002	0.0010	0.0428	0.0004	0.0006	0.1227
Chlorinated Pesticides	alpha-BHC	pounds	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0051
Chlorinated Pesticides	alpha-chlordane	pounds	0.0000	0.0000	0.0001	0.0059	0.0001	0.0001	0.0169
Chlorinated Pesticides	beta-BHC	pounds	0.0000	0.0000	0.0000	0.0009	0.0000	0.0000	0.0026
Chlorinated Pesticides	delta-BHC	pounds	0.0000	0.0000	0.0000	0.0009	0.0000	0.0000	0.0026
Chlorinated Pesticides	gamma-BHC (lindane)	pounds	0.0000	0.0000	0.0000	0.0007	0.0000	0.0000	0.0020
Chlorinated Pesticides	gamma-chlordane	pounds	0.0000	0.0000	0.0001	0.0059	0.0001	0.0001	0.0169
Conventionals	Cyanide	pounds	0.0034	0.0036	0.0205	0.8922	0.0309	0.0130	2.5560
Conventionals	Dissolved Oxygen	pounds	14.9692	6.6178	83.5864	3,400.9476	44.8732	36.6373	9,559.4946
Conventionals	Oil and Grease	pounds	0.9888	1.0291	5.9002	256.9446	2.2282	3.7577	736.1322
General	Alkalinity as CaCO3	pounds	234.8377	221.5471	876.8379	17,129.6417	835.5699	730.6581	49,075.4802
General	Ammonia	pounds	0.6482	1.0377	45.8906	228.7521	1.9466	3.6011	569.4801
General	BioChemical Oxygen Demand- Five-Day	pounds	0.6867	10.0196	181.9234	2,458.8173	13.4929	41.8041	8,169.0226
General	Chemical Oxygen Demand	pounds	31.5864	67.1788	1,114.4856	15,345.3040	77.3676	26.0949	84,859.6844
General	Chloride	pounds	288.3972	327.3179	453.1695	20,662.6303	823.1911	1,607.4478	39,055.9030
General	Dissolved Phosphorus	pounds	1.1261	0.1429	6.1461	103.4916	1.2379	0.5741	429.4105
General	Fluoride	pounds	1.3101	1.4079	3.4828	94.9268	2.0642	2.9644	181.9882
General	Hardness as CaCO3	pounds	604.2607	1,164.9088	1,434.0807	57,098.8056	2,259.1334	4,383.9486	117,576.6712
General	Kjeldahl-N	pounds	3.9552	3.3161	39.6626	499.6145	12.3788	11.0643	1,226.8870
General	Methyl Tertiary Butyl Ether (MTBE)	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
General	Methylene Blue Active Substances (MBAS)	pounds	0.0069	1.0434	4.8349	217.6892	0.0155	0.0261	797.4766
General	NH3-N	pounds	0.5356	0.8576	37.9417	189.1398	1.6092	2.9748	470.3067
General	Nitrate (NO3)	pounds	16.8918	0.0715	140.1302	2,030.5763	11.5123	0.2609	3,036.5453
General	Nitrate-N	pounds	3.8041	0.0214	31.6317	460.3591	2.5965	0.0783	686.0343
General	Nitrite-N	pounds	0.0434	0.0469	1.8520	14.6316	0.0155	0.0261	5.1120
General	Phosphorus- Total (as P)	pounds	1.1948	0.1715	6.9655	117.7663	1.2688	1.2004	470.3067
General	Sulfate	pounds	469.6754	1,160.6208	950.5906	36,757.3561	1,575.2040	3,627.1955	55,721.1181
General	Total Dissolved Solids	pounds	1,441.9859	2,558.5113	3,687.6361	123,476.1672	4,703.9490	10,437.9728	263,780.7059
General	Total Organic Carbon	pounds	15.5185	15.1510	340.9015	4,246.7237	32.4944	30.9486	10,633.0207
General	Total Petroleum Hydrocarbons	pounds	1.0300	1.0720	6.1461	267.6507	2.3210	3.9142	766.8044
General	Total Suspended Solids	pounds	0.6867	48.5974	3,327.0672	161,660.9935	37.1364	36.5329	71,568.4086
General	Volatile Suspended Solids	pounds	0.6867	15.7227	1,065.3171	29,976.8730	27.8523	26.0949	23,515.3342
Herbicides	2-4-5-TP-SILVEX	pounds	0.0000	0.0000	0.0003	0.0120	0.0001	0.0002	0.0343
Herbicides	2-4-D	pounds	0.0000	0.0000	0.0001	0.0036	0.0000	0.0001	0.0102
Herbicides	Glyphosate	pounds	0.0034	0.0036	0.0205	0.8922	0.0077	0.0130	2.5560

Table 4-9 Estimated Loads

Group	Parameter	Units	Liberty Canyon Channel TS29 2013-14Event08 10/15/2013	Liberty Canyon Channel TS29 -2013-14Event14 3/5/2014	Liberty Canyon Channel TS29 2013-14Event09 11/21/2013	Liberty Canyon Channel TS29 2013-14Event13 2/27/2014	PD 728 at Foxfield Dr. TS30 2013-14Event08 10/15/2013	PD 728 at Foxfield Dr. TS30 2013-14Event14 3/5/2014	PD 728 at Foxfield Dr. TS30 2013-14Event13 2/27/2014
			Dry		Wet		Dry		Wet
Metals	Aluminum	pounds	0.0343	1.2507	49.5782	3,229.6512	0.3776	0.6472	3,281.9227
Metals	Antimony	pounds	0.0010	0.0009	0.0321	1.0099	0.0028	0.0005	2.2084
Metals	Arsenic	pounds	0.0029	0.0020	0.0406	1.1741	0.0066	0.0096	1.3700
Metals	Barium	pounds	0.0758	0.0758	0.8523	39.9692	0.1306	0.2698	51.5293
Metals	Beryllium	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Cadmium	pounds	0.0008	0.0011	0.0388	1.4346	0.0027	0.0026	1.2678
Metals	Chromium	pounds	0.0030	0.0047	0.1155	5.3887	0.0082	0.0076	8.6700
Metals	Chromium +6	pounds	0.0002	0.0002	0.0010	0.0446	0.0004	0.0007	0.1278
Metals	Copper	pounds	0.0216	0.0979	0.9834	13.4539	0.0418	0.0376	26.5826
Metals	Dissolved Aluminum	pounds	0.0343	0.2387	10.4073	385.4169	0.0774	0.1305	402.8279
Metals	Dissolved Antimony	pounds	0.0007	0.0001	0.0129	0.3098	0.0021	0.0005	0.9539
Metals	Dissolved Barium	pounds	0.0577	0.0530	0.4515	16.7014	0.1000	0.2171	27.9117
Metals	Dissolved Beryllium	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Dissolved Iron	pounds	0.0343	0.2559	20.0771	610.2435	0.0774	0.1305	672.7430
Metals	Dissolved Mercury	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Dissolved Selenium	pounds	0.0024	0.0078	0.0100	0.9921	0.0103	0.0371	2.3822
Metals	Dissolved Thallium	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Iron	pounds	0.1648	1.5008	77.0306	4,746.3382	0.5632	0.8089	4,294.1045
Metals	Lead	pounds	0.0009	0.0022	0.0901	6.0311	0.0019	0.0005	5.7050
Metals	Mercury	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Nickel	pounds	0.0135	0.0203	0.1852	7.7083	0.0467	0.0934	12.3711
Metals	Selenium	pounds	0.0029	0.0086	0.0172	1.1598	0.0108	0.0396	3.6295
Metals	Silver	pounds	0.0001	0.0001	0.0045	0.0178	0.0002	0.0003	0.0511
Metals	Thallium	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals	Zinc	pounds	0.1015	0.0718	2.2945	63.1656	0.2702	0.1921	169.7194
Metals-CMCCCC	Dissolved Arsenic	pounds	0.0018	0.0001	0.0316	0.6281	0.0038	0.0005	1.3598
Metals-CMCCCC	Dissolved Cadmium	pounds	0.0005	0.0009	0.0283	0.9957	0.0019	0.0020	0.8977
Metals-CMCCCC	Dissolved Chromium	pounds	0.0011	0.0014	0.0434	0.8850	0.0073	0.0059	1.7790
Metals-CMCCCC	Dissolved Chromium +6	pounds	0.0002	0.0002	0.0010	0.0446	0.0004	0.0007	0.1278
Metals-CMCCCC	Dissolved Copper	pounds	0.0154	0.0803	0.6408	7.6013	0.0253	0.0291	14.4159
Metals-CMCCCC	Dissolved Lead	pounds	0.0001	0.0012	0.0552	3.2511	0.0003	0.0005	3.0877
Metals-CMCCCC	Dissolved Nickel	pounds	0.0104	0.0144	0.1205	3.3046	0.0368	0.0757	5.6232
Metals-CMCCCC	Dissolved Silver	pounds	0.0001	0.0001	0.0004	0.0178	0.0002	0.0003	0.0511
Metals-CMCCCC	Dissolved Zinc	pounds	0.0221	0.0422	1.5242	36.4005	0.1195	0.1148	97.8442
Organophosphate Pesticides	Atrazine	pounds	0.0005	0.0005	0.0027	0.1190	0.0010	0.0017	0.3410
Organophosphate Pesticides	Chlorpyrifos	pounds	0.0000	0.0000	0.0001	0.0036	0.0000	0.0001	0.0102
Organophosphate Pesticides	Cyanazine	pounds	0.0005	0.0005	0.0027	0.1190	0.0010	0.0017	0.3410
Organophosphate Pesticides	Diazinon	pounds	0.0000	0.0000	0.0000	0.0005	0.0000	0.0000	0.0015
Organophosphate Pesticides	Malathion	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Organophosphate Pesticides	Prometryn	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Organophosphate Pesticides	Simazine	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Polychlorinated Biphenyls	PCB-1016 (Aroclor 1016)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1221 (Aroclor 1221)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1232 (Aroclor 1232)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1242 (Aroclor 1242)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1248 (Aroclor 1248)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1254 (Aroclor 1254)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Polychlorinated Biphenyls	PCB-1260 (Aroclor 1260)	pounds	0.0000	0.0000	0.0003	0.0116	0.0001	0.0002	0.0332
Semivolatile Organic Compounds (Acids)	2-4-6-Trichlorophenol	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023
Semivolatile Organic Compounds (Acids)	2-4-Dichlorophenol	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Acids)	2-4-Dimethylphenol	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Acids)	2-4-Dinitrophenol	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Acids)	2-Chlorophenol	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Acids)	2-Nitrophenol	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Acids)	4-Chloro-3-methylphenol	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Acids)	4-Nitrophenol	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Acids)	Pentachlorophenol	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Acids)	Phenol	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Acids)	Phenolics- Total recoverable	pounds	0.0206	0.0214	0.1229	5.3530	0.0464	0.0783	15.3361

Table 4-9 Estimated Loads

Group	Parameter	Units	Liberty Canyon Channel TS29 2013-14Event08 10/15/2013	Liberty Canyon Channel TS29 -2013-14Event14 3/5/2014	Liberty Canyon Channel TS29 2013-14Event09 11/21/2013	Liberty Canyon Channel TS29 2013-14Event13 2/27/2014	PD 728 at Foxfield Dr. TS30 2013-14Event08 10/15/2013	PD 728 at Foxfield Dr. TS30 2013-14Event14 3/5/2014	PD 728 at Foxfield Dr. TS30 2013-14Event13 2/27/2014
			Dry		Wet		Dry		Wet
Semivolatile Organic Compounds (Base/Neutral)	1-2-4-Trichlorobenzene	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	1-2-Benzanthracene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	1-2-Dichlorobenzene	pounds	0.0003	0.0004	0.0020	0.0892	0.0008	0.0013	0.2556
Semivolatile Organic Compounds (Base/Neutral)	1-2-Diphenylhydrazine	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	1-3-Dichlorobenzene	pounds	0.0003	0.0004	0.0020	0.0892	0.0008	0.0013	0.2556
Semivolatile Organic Compounds (Base/Neutral)	1-4-Dichlorobenzene	pounds	0.0003	0.0004	0.0020	0.0892	0.0008	0.0013	0.2556
Semivolatile Organic Compounds (Base/Neutral)	2-4-Dinitrotoluene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	2-6-Dinitrotoluene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	2-Chloroethyl vinyl ether	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	2-Chloronaphthalene	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023
Semivolatile Organic Compounds (Base/Neutral)	3-3-Dichlorobenzidine	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	4-6-Dinitro-2-methylphenol	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Base/Neutral)	4-Bromophenyl phenyl ether	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	4-Chlorophenyl phenyl ether	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthene	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Acenaphthylene	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Anthracene	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Benzidine	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Benzo(a)pyrene	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Benzo(k)flouranthene	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Benzo[b]fluoranthene	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023
Semivolatile Organic Compounds (Base/Neutral)	Benzo[g-h-i]perylene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethoxy) methane	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroethyl) ether	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Chloroisopropyl) ether	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Bis(2-Ethylhexyl) phthalate	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Butyl benzyl phthalate	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023
Semivolatile Organic Compounds (Base/Neutral)	Chrysene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Dibenzo(a-h)anthracene	pounds	0.0000	0.0000	0.0001	0.0059	0.0001	0.0001	0.0169
Semivolatile Organic Compounds (Base/Neutral)	Diethyl phthalate	pounds	0.0007	0.0007	0.0041	0.1784	0.0015	0.0026	0.5112
Semivolatile Organic Compounds (Base/Neutral)	Dimethyl phthalate	pounds	0.0005	0.0005	0.0027	0.1196	0.0010	0.0017	0.3425
Semivolatile Organic Compounds (Base/Neutral)	Fluoranthene	pounds	0.0000	0.0000	0.0001	0.0030	0.0000	0.0000	0.0087
Semivolatile Organic Compounds (Base/Neutral)	Fluorene	pounds	0.0000	0.0000	0.0001	0.0059	0.0001	0.0001	0.0169
Semivolatile Organic Compounds (Base/Neutral)	Hexachloro-cyclopentadiene	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobenzene	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Hexachlorobutadiene	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Hexachloroethane	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Indeno(1-2-3-c-d)pyrene	pounds	0.0000	0.0000	0.0001	0.0030	0.0000	0.0000	0.0087
Semivolatile Organic Compounds (Base/Neutral)	Isophorone	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-di-n-propyl amine	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-dimethyl amine	pounds	0.0011	0.0012	0.0068	0.2980	0.0026	0.0044	0.8537
Semivolatile Organic Compounds (Base/Neutral)	N-Nitroso-diphenyl amine	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Naphthalene	pounds	0.0000	0.0000	0.0003	0.0120	0.0001	0.0002	0.0343
Semivolatile Organic Compounds (Base/Neutral)	Nitrobenzene	pounds	0.0002	0.0002	0.0014	0.0589	0.0005	0.0009	0.1687
Semivolatile Organic Compounds (Base/Neutral)	Phenanthrene	pounds	0.0000	0.0000	0.0001	0.0030	0.0000	0.0000	0.0087
Semivolatile Organic Compounds (Base/Neutral)	Pyrene	pounds	0.0000	0.0000	0.0001	0.0030	0.0000	0.0000	0.0087
Semivolatile Organic Compounds (Base/Neutral)	di-n-Butyl phthalate	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023
Semivolatile Organic Compounds (Base/Neutral)	di-n-Octyl phthalate	pounds	0.0023	0.0024	0.0136	0.5942	0.0052	0.0087	1.7023

-Wet weather volumes were estimated using the total flow from the beginning of each storm event until the flow returned to approximately 10% of anticedent flow for each event at each site. In some cases, the storm volumes were larger than the proportion of flow captured during sampling. Hydrographs with the flow, sample start and stop times, and proportion of event captured are presented in Appendix A.

NS = Not Sampled