Table 1: Stormwater Loads at SAR Mass Loading Sites: 2012-13

Station	Period	Volume Sampled	Type	Nitrate As NO_3	NH_3 as N	TKN	Total Phos. as PO_4	Ortho Phos. as P	TSS	VSS	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
		ac-ft									lbs									
BARSED	Nov 29-Dec 2, 2012	490	Total	21177	478.7	2106	1249	289.8	37486	7664	0.333	1.87	26.58	1.44	4.27	0.333	34.8	6.32	12.10	298926
			Dissolved								0.333	0.783	17.33	0.333	3.80	0.333	18.6	5.97	11.88	
CARB01	Feb 19-20, 2013	53.5	Total	600.7	12.88	202.9	28.43	1.45	6323	2324	0.036	0.321	3.21	0.723	0.47	0.036	11.7	0.24	0.091	14690
			Dissolved								0.036	0.080	1.71	0.036	0.26	0.036	3.18	0.168	0.08	
CMCG02	Oct 11, 2012	1.23	Total	28.41	3.79	30.32	8.76	1.59	627.9	321.2	0.002	0.022	0.429	0.046	0.08	0.001	1.33	0.012	0.004	451
			Dissolved								0.001	0.010	0.263	0.010	0.07	0.001	0.8	0.010	0.003	
	Nov 29-Dec 1, 2012	3.26	Total	48.24	2.42	21.44	15.08	3.85	218.1	115.6	0.002	0.026	0.527	0.033	0.06	0.002	1.42	0.021	0.002	722
			Dissolved								0.002	0.018	0.42	0.010	0.05	0.002	0.939	0.019	0.002	
EGWC05	Feb 19-21, 2013	8.37	Total	121.3	4.55	35.64	7.39	0.23	789.9	206.9	0.006	0.036	0.464	0.068	0.08	0.006	0.979	0.044	0.017	3645
			Dissolved								0.006	0.011	0.315	0.006	0.06	0.006	0.406	0.033	0.015	
FCVA03	Feb 19-20, 2013	38.0	Total	762.4	7.18	112.8	30.5	1.03	2519	952.0	0.027	0.158	2.06	0.312	0.31	0.026	6.26	0.179	0.099	22468
			Dissolved								0.026	0.066	1.49	0.026	0.24	0.026	2.24	0.153	0.09	
SADF01	Oct 11-12, 2012	15.9	Total	336.6	33.91	282.9	19.27	1.58	10651	2980	0.031	0.230	3.43	0.580	0.710	0.011	12.7	0.162	0.162	14591
			Dissolved								0.011	0.075	1.156	0.080	0.552	0.011	5.47	0.097	0.148	
	Nov 29-Dec 1, 2012	60.3	Total	1619	75.92	375.2	157.9	27.99	3318	1077	0.041	0.252	6.04	0.385	0.937	0.041	11.7	0.347	0.476	45985
			Dissolved								0.075	0.155	4.37	0.121	0.808	0.041	7.66	0.288	0.451	
SDMF05	Nov 29-Dec 2, 2012	277.9	Total	9670	192.8	1187	605.6	110.3	17979	3000	0.189	0.917	13.34	0.796	2.75	0.189	16.3	3.01	5.52	225833
			Dissolved								0.189	0.189	9.57	0.189	2.24	0.189	7.94	2.65	5.31	
WYLSED	Dec 1-4, 2012	195.5	Total	8951	29.98	661.9	598.6	103.5	48597	7585	0.152	1.463	8.72	1.03	2.69	0.133	15.0	1.99	0.722	97886
			Dissolved								0.133	0.264	5.42	0.133	1.60	0.133	3.38	1.71	0.676	

Table 2: Stormwater Event Mean Concentrations at SAR Mass Loading Sites: 2012-13

Station	Period	Volume Sampled	Type	Nitrate As NO_3	NH_3 as N	TKN	Total Phos. as PO_4	Ortho Phos. as P	TSS	VSS	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as $CaCO_3$
		ac-ft		mg/L							ug/L									mg/L
BARSED	Nov 29-Dec 2, 2012	490.40	Total	15.9	0.36	1.58	0.94	0.22	28	6	0.25	1.4	19.9	1.08	3.2	0.25	26	4.7	9.1	224
			Dissolved								0.25	0.6	13.0	0.25	2.8	0.25	14	4.5	8.9	
CARB01	Feb 19-20, 2013	53.49	Total	4.1	0.09	1.40	0.20	0.01	43	16	0.25	2.2	22.1	4.97	3.2	0.25	81	1.6	0.6	101
			Dissolved								0.25	0.6	11.8	0.25	1.8	0.25	22	1.2	0.6	
CMCG02	Oct 11, 2012	1.23	Total	8.5	1.13	9.07	2.62	0.48	188	96	0.60	6.6	128.3	13.76	24.8	0.30	399	3.6	1.2	135
			Dissolved								0.30	3.0	78.7	2.99	21.5	0.30	239	3.0	0.9	
	Nov 29-Dec 1, 2012	3.26	Total	5.4	0.27	2.42	1.70	0.43	25	13	0.23	2.9	59.5	3.72	6.4	0.23	160	2.4	0.2	81
			Dissolved								0.23	2.0	47.4	1.13	5.5	0.23	106	2.1	0.2	
EGWC05	Feb 19-21, 2013	8.37	Total	5.3	0.20	1.57	0.32	0.01	35	9	0.26	1.6	20.4	2.99	3.3	0.26	43	1.9	0.7	160
			Dissolved								0.26	0.5	13.8	0.26	2.5	0.26	18	1.5	0.7	
FCVA03	Feb 19-20, 2013	37.96	Total	7.4	0.07	1.09	0.30	0.01	24	9	0.26	1.5	20.0	3.02	3.0	0.25	61	1.7	1.0	218
			Dissolved								0.25	0.6	14.4	0.25	2.3	0.25	22	1.5	0.9	
SADF01	Oct 11-12, 2012	15.88	Total	7.8	0.79	6.55	0.45	0.04	247	69	0.72	5.3	79.5	13.44	16.4	0.25	295	3.8	3.8	338
			Dissolved								0.25	1.7	26.8	1.85	12.8	0.25	127	2.2	3.4	
	Nov 29-Dec 1, 2012	60.32	Total	9.9	0.46	2.29	0.96	0.17	20	7	0.25	1.5	36.9	2.35	5.7	0.25	72	2.1	2.9	280
			Dissolved								0.46	0.9	26.6	0.74	4.9	0.25	47	1.8	2.8	
SDMF05	Nov 29-Dec 2, 2012	277.89	Total	12.8	0.26	1.57	0.80	0.15	24	4	0.25	1.2	17.7	1.05	3.6	0.25	22	4.0	7.3	299
			Dissolved								0.25	0.3	12.7	0.25	3.0	0.25	11	3.5	7.0	
WYLSED	Dec 1-4, 2012	195.50	Total	16.8	0.06	1.25	1.13	0.19	91	14	0.29	2.8	16.4	1.94	5.1	0.25	28	3.8	1.4	184
			Dissolved								0.25	0.5	10.2	0.25	3.0	0.25	6	3.2	1.3	

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

Station	Composite Begin	Composite End	Samp	Type	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	Total Ammonia as N	TKN	TotalPhosphorus as PO	OrthoPhosphate as P	TSS	VSS	Cl	SO_4	DOC	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hg	Field Hardness
					uS/cm	SU	NTU	mg/L										ug/L											mg/L
BARSED	7/24/12 11:02	7/25/12 10:02	24	DT	2460	8.14	28.7	22.6	<0.1	1.65	0.35	<0.02	54	9				<0.5	9.1	<0.5	1.4	7.7	840	3.9	0.53	29	8.4		675
BARSED	7/24/12 11:02	7/25/12 10:02	24	DF														<0.5	9.4	<0.5	<0.5	4.2	<20	1.6	<0.5	28	3		
BARSED	8/6/12 9:45	8/7/12 8:45	24	DT	2470	8.22	11.4	22.2	<0.1	0.9	0.17	<0.02	23	9				<0.5	11	<0.5	0.73	5.4	410	1.8	<0.5	32	4.1		585
BARSED	8/6/12 9:45	8/7/12 8:45	24	DF														<0.5	11	<0.5	<0.5	4.2	<20	1.5	<0.5	30	2.6		
BARSED	9/10/12 9:53	9/11/12 8:53	24	DT	2350	8.23	14.8	24.7	<0.1	0.9	0.16	<0.02	32	6	292	675	4.42	<0.5	9.8	<0.5	0.61	6.8	310	1.8	<0.5	29	4.7	<0.05	655
BARSED	9/10/12 9:53	9/11/12 8:53	24	DF														<0.5	9.7	<0.5	<0.5	5.4	<20	1.7	<0.5	30	2.6	<0.05	
BARSED	10/9/12 10:45	10/10/12 9:45	24	DT	2220	8.21	11	26.1	<0.1	1	0.28	0.04	16	<5				<0.5	9.2	<0.5	0.67	7.7	370	2.2	<0.5	23	6.4	<0.05	580
BARSED	10/9/12 10:45	10/10/12 9:45	24	DF														<0.5	9	<0.5	<0.5	6.4	<20	2.1	<0.5	24	4.6	<0.05	
BARSED	11/26/12 11:42	11/27/12 10:42	24	DT	2560	8.25	19	45.9	<0.1	1.11	0.4	0.04	34	<5	222	532	4.05	<0.5	7.9	<0.5	0.93	9.1	300	1.6	<0.5	29	8.9	<0.05	750
BARSED	11/26/12 11:42	11/27/12 10:42	24	DF														<0.5	7.7	<0.5	0.54	5.1	<20	1.4	<0.5	29	4.7	<0.05	
BARSED	11/29/12 6:04	11/29/12 7:04	6	ST	1720	8.15	70.3	36.1	0.3	1.71	0.41	<0.02	133	22	161	306	7.21	<0.5	7.1	<0.5	3.9	20	2800	4.1	2.3	18	44	<0.05	490
BARSED	11/29/12 6:04	11/29/12 7:04	6	SF														<0.5	5.3	<0.5	0.65	7.7	25	2.5	<0.5	17	15	<0.05	
BARSED	11/29/12 9:04	11/30/12 7:04	12	ST	852	7.86	14.1	16	0.3	1.76	0.99	0.23	20	<5	62.8	142	10	<0.5	4	<0.5	1.2	23	590	3.3	0.96	7.4	28	<0.05	210
BARSED	11/29/12 9:04	11/30/12 7:04	12	SF														<0.5	3.6	<0.5	0.5	15	71	2.8	<0.5	7.2	17	<0.05	
BARSED	11/30/12 9:04	12/2/12 9:04	24	ST	911	7.82	22.2	14.8	0.4	1.46	0.93	0.22	28	7	63	153	9.7	<0.5	5.1	<0.5	1.4	18	630	3.1	1.1	9.7	24	<0.05	220
BARSED	11/30/12 9:04	12/2/12 9:04	24	SF														<0.5	5	<0.5	0.64	12	55	2.9	<0.5	9.6	12	<0.05	
BARSED	12/10/12 10:58	12/11/12 9:58	24	DT	2680	8.31	8.41	46.1	<0.1	0.6	0.34	0.07	12	<5				<0.5	8.8	<0.5	0.76	6.6	280	1.3	<0.5	39	5.6	<0.05	820
BARSED	12/10/12 10:58	12/11/12 9:58	24	DF														<0.5	8.2	<0.5	<0.5	7.4	<20	1.1	<0.5	33	3.8	<0.05	
BARSED	1/22/13 11:01	1/23/13 10:01	24	DT	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR				<0.5	8.2	<0.5	0.98	7.5	340	1.6	<0.5	34	8.3	<0.05	685
BARSED	1/22/13 11:01	1/23/13 10:01	24	DF														<0.5	7.6	<0.5	0.64	5.4	<20	1.4	<0.5	33	4.4	<0.05	
BARSED	2/25/13 10:44	2/26/13 9:44	24	DT	1670	8.26	8.1	31	<0.1	0.5	0.65	0.12	14	<5				<0.5	7.9	<0.5	1.2	8	420	3.7	<0.5	18	7.3	<0.05	480
BARSED	2/25/13 10:44	2/26/13 9:44	24	DF														<0.5	7.2	<0.5	0.86	5	20	3.5	<0.5	18	2.7	<0.05	
BARSED	3/18/13 7:48	3/19/13 6:48	24	DT	2390	8.26	6.58	41.2	<0.1	0.6	0.18	<0.02	17	<5	179	430	3.65	<0.5	7	<0.5	0.99	10	410	5.3	<0.5	30	7.6	<0.05	655
BARSED	3/18/13 7:48	3/19/13 6:48	24	DF														<0.5	7.3	<0.5	0.56	8.3	20	4.1	<0.5	29	4.3	<0.05	
BARSED	4/8/13 9:27	4/9/13 8:27	24	DT	2570	8.24	16	34.5	<0.1	0.7	0.22	<0.02	31	5				<0.5	7.8	<0.5	1.2	9	620	4.1	<0.5	33	8.6	<0.05	710
BARSED	4/8/13 9:27	4/9/13 8:27	24	DF														<0.5	7.9	<0.5	0.57	6.4	<20	4	<0.5	34	3.7	<0.05	
BARSED	5/14/13 10:11	5/15/13 9:11	24	DT	2390	8.25	22	28.7	<0.1	1.21	0.25	<0.02	54	7				<0.5	8.3	<0.5	1.7	12	1400	2.3	0.84	26	16	<0.05	625
BARSED	5/14/13 10:11	5/15/13 9:11	24	DF														<0.5	7.7	<0.5	<0.5	8.4	<20	1.5	<0.5	25	5.7	<0.05	
BARSED	6/17/13 10:25	6/18/13 9:25	24	DT	2220	8.4	7.41	20.3	<0.1	1.03	0.16	<0.02	15	<5	265	633	4.86	<0.5	7.6	<0.5	0.77	12	390	3.8	<0.5	27	6.1	<0.05	580
BARSED	6/17/13 10:25	6/18/13 9:25	24	Dup	2220	8.28	7.09	20.2	<0.1	1	0.17	<0.02	16	<5	262	660	4.99	<0.5	7.7	<0.5	0.74	11	340	3.8	<0.5	25	6.2	<0.05	580
BARSED	6/17/13 10:25	6/18/13 9:25	24	DF														<0.5	7.7	<0.5	<0.5	10	<20	3.5	<0.5	25	3.6	<0.05	
BARSED	6/17/13 10:25	6/18/13 9:25	24	DF														<0.5	7.4	<0.5	<0.5	10	<20	3.6	<0.5	26	3.9	<0.05	
BCC02	9/17/12 10:12	9/18/12 9:12	24	DT	2210	8.15	17.5	<0.4	0.7	1.57	0.18	<0.02	39	8	241	534	5.61	<0.5	3.3	<0.5	0.53	5.2	490	1.9	1.1	0.94	7.2	<0.05	350
BCC02	9/17/12 10:12	9/18/12 9:12	24	DF														<0.5	3	<0.5	<0.5	3.2	31	1.6	<0.5	0.93	2.8	<0.05	
BCC02	5/28/13 9:37	5/29/13 8:37	24	DT	2300	8.37	5.7	0.7	<0.1	1	0.09	<0.02	7	<5	208	564	6.93	<0.5	2.9	<0.5	<0.5	8.2	200	2.6	0.51	1.3	5.6	<0.05	345
BCC02	5/28/13 9:37	5/29/13 8:37	24	DF														<0.5	2.6	<0.5	<0.5	6.7	<20	2.5	<0.5	1.3	2.7	<0.05	
CARB01	9/17/12 9:41	9/18/12 8:41	24	DT	1460	8.51	2.19	0.6	<0.1	1.28	0.14	<0.02	<5	<5	148	265	5.82	<0.5	3.4	<0.5	<0.5	7.9	24	1.3	<0.5	1.5	2.9	<0.05	300
CARB01	9/17/12 9:41	9/18/12 8:41	24	DF														<0.5	3.3	<0.5	<0.5	7.2	<20	1.3	<0.5	1.4	3.4	<0.05	
CARB01	2/19/13 22:03	2/19/13 23:03	6	ST	1050	7.74	59.5	4.4	0.4	2.25	0.16	<0.02	104	32	78.7	199		<0.5	2.7	<0.5	3.9	31	2400	4.8	9.6	0.93	150	<0.05	150
CARB01	2/19/13 22:03	2/19/13 23:03	6	SF														<0.5	1.6	<0.5	0.61	10	35	1.9	<0.5	0.82	21	<0.05	
CARB01	2/20/13 1:04	2/20/13 23:04	12	ST	403	7.66	21.7	4.1	<0.1	1.29	0.2	<0.02	36	14	25.9	51.3	9.48	<0.5	1.5	<0.5	2	21	970	3	4.4	0.59	72	<0.05	95
CARB01	2/20/13 1:04	2/20/13 23:04	12	SF														<0.5	1.1	<0.5	0.54	12	34	1.8	<0.5	0.52	22	<0.05	
CARB01	5/28/13 10:18	5/29/13 9:18	24	DT	1530	8.66	5.76	0.9	<0.1	1.49	0.17	<0.02	8	<5	122	277	6.49	<0.5	4	<0.5	<0.5	12	130	2.3	<0.5	2	8.4	<0.05	265
CARB01	5/28/13 10:18	5/29/13 9:18	24	Dup	1530	8.65	5.56	0.9	<0.1	1.56	0.15	<0.02	8	<5	124	284	6.62	<0.5	4	<0.5	<0.5	13	140	2.2	<0.5	1.9	8	<0.05	265
CARB01	5/28/13 10:18	5/29/13 9:18	24	DF														<0.5	3.7	<0.5	<0.5	9.8	<20	2.1	<0.5	1.9	3.6	<0.05	
CARB01	5/28/13 10:18	5/29/13 9:18	24	Dup														<0.5	3.6	<0.5	<0.5	10	<20	2	<0.5	1.9	3.5	<0.05	

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

Station	Composite Begin	Composite End	Samp	Type	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	Total Ammonia as N	TKN	TotalPhosphorus as PO	OrthoPhosphate as P	TSS	VSS	Cl	SO_4	DOC	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hg	Field Hardness
					uS/cm	SU	NTU	mg/L										ug/L											mg/L
CCBA01	9/17/12 8:49	9/18/12 7:49	24	DT	1220	8.57	4.25	7.4	<0.1	1.13	0.67	0.02	<5	<5	156	201	4.77	<0.5	2.7	<0.5	<0.5	7.3	44	1.6	<0.5	1.9	4.5	<0.05	370
CCBA01	9/17/12 8:49	9/18/12 7:49	24	DF														<0.5	2.6	<0.5	<0.5	6.6	<20	1.5	<0.5	1.9	4.5	<0.05	
CCBA01	5/28/13 9:22	5/29/13 8:22	24	DT	1320	8.61	5.13	7.4	<0.1	1.46	0.1	<0.02	6	<5	154	243	6.64	<0.5	2.1	<0.5	0.56	11	66	3	<0.5	2.5	6	<0.05	315
CCBA01	5/28/13 9:22	5/29/13 8:22	24	DF														<0.5	2	<0.5	<0.5	10	<20	2.8	<0.5	2.5	2.7	<0.05	
CICF25	7/24/12 10:37	7/25/12 9:37	24	DT	1350	9.15	4.83	0.7	<0.1	4.83	1.06	0.17	6	<5				<0.5	4.1	<0.5	0.54	18	41	4.4	<0.5	2	8.7		290
CICF25	7/24/12 10:37	7/25/12 9:37	24	DF														<0.5	4	<0.5	<0.5	16	<20	4.2	<0.5	2	6.4		
CICF25	8/14/12 10:26	8/15/12 9:26	24	DT	1270	9.08	6.24	<0.4	0.2	2.16	1.28	0.22	12	7				<0.5	4.6	<0.5	<0.5	17	56	3.7	<0.5	1.2	15		250
CICF25	8/14/12 10:26	8/15/12 9:26	24	DF														<0.5	4.1	0.6	<0.5	14	<20	3.3	<0.5	1.1	9.3		
CICF25	9/10/12 9:17	9/11/12 8:17	24	DT	1200	9.09	32.4	<0.4	<0.1	2.96	2	0.26	58	23	157	227	13.4	<0.5	6.1	<0.5	0.97	22	360	22	0.74	1.2	28	<0.05	310
CICF25	9/10/12 9:17	9/11/12 8:17	24	DF														<0.5	5.4	<0.5	<0.5	15	<20	3.9	<0.5	1	4.7	<0.05	
CICF25	10/9/12 10:08	10/10/12 9:08	23	DT	1310	8.46	111	30	<0.1	4.43	4	0.78	149	27				<0.5	8.1	1.6	4.3	23	3700	6.9	3	2.7	52	<0.05	365
CICF25	10/9/12 10:08	10/10/12 9:08	23	DF														<0.5	7.1	1.2	<0.5	13	<20	4.1	<0.5	2.7	8.8	<0.05	
CICF25	11/26/12 9:21			DT	797	10.23	9.8	0.4	<0.1	2.05	0.84	0.13	16	6				<0.5	2.9	<0.5	0.94	17	290	<0.05	2.8	<0.5	0.97	17	200
CICF25	11/26/12 9:21			DF														<0.5	2.8	<0.5	0.58	**14**	<20	<0.05	2.3	<0.5	0.96	5.8	
CICF25	11/29/12 3:25	11/29/12 4:25	6	ST	328	7.63	59.5	9.4	0.8	3.66	0.31	0.05	129	44	27	28.3	19.5	<0.5	2.8	<0.5	3.4	85	2100	7.5	3.8	1.2	160	<0.05	80
CICF25	11/29/12 3:25	11/29/12 4:25	6	SF														<0.5	2.1	<0.5	0.56	33	78	5	<0.5	1.2	45	<0.05	
CICF25	11/29/12 6:25	11/30/12 4:25	12	ST	403	7.91	15.9	12	0.1	1.58	1.12	0.26	30	7	27.1	44.8	11.3	<0.5	3	<0.5	1.4	23	690	3.9	0.76	0.64	27	<0.05	95
CICF25	11/29/12 6:25	11/30/12 4:25	12	SF														<0.5	3	<0.5	0.64	17	46	3.3	<0.5	0.67	20	<0.05	
CICF25	11/30/12 12:25	12/2/12 10:25	24	ST	332	8.02	23.6	9.1	0.3	1.38	1.22	0.25	40	9	20.7	34.9	10.3	<0.5	3.5	<0.5	2	31	940	4	1.3	<0.5	38	<0.05	110
CICF25	11/30/12 12:25	12/2/12 10:25	24	Dup	330	8.12	26.4	9.1	0.2	1.44	1.27	0.26	37	9	20.7	34.9	9.26	<0.5	3.3	<0.5	2.1	31	1100	3.9	1.4	<0.5	40	<0.05	110
CICF25	11/30/12 12:25	12/2/12 10:25	24	SF														<0.5	3.1	<0.5	0.93	20	46	3.1	<0.5	<0.5	13	<0.05	
CICF25	11/30/12 12:25	12/2/12 10:25	24	Dup														<0.5	3	<0.5	0.88	19	45	2.9	<0.5	<0.5	12	<0.05	
CICF25	12/10/12 10:36	12/11/12 9:36	24	DT	832	9.05	5.04	9.1	0.2	3.36	1.47	0.28	7	5				<0.5	3.8	<0.5	1.2	29	110	4.5	0.51	0.92	27	<0.05	160
CICF25	12/10/12 10:36	12/11/12 9:36	24	DF														<0.5	3.7	0.97	1.1	24	21	4	<0.5	0.87	16	<0.05	
CICF25	1/22/13 10:31	1/23/13 9:31	24	DT														<0.5	3	<0.5	0.8	21	39	2.5	<0.5	0.92	16	<0.05	160
CICF25	1/22/13 10:31	1/23/13 9:31	24	DF														<0.5	2.9	<0.5	0.72	19	<20	2.4	<0.5	0.74	14	<0.05	
CICF25	2/25/13 10:11	2/26/13 9:11	24	DT	1030	8.93	2.85	8.3	<0.1	2.38	0.66	0.06	<5	<5				<0.5	3	<0.5	1.5	41	61	4.5	<0.5	1.7	22	<0.05	165
CICF25	2/25/13 10:11	2/26/13 9:11	24	DF														<0.5	2.8	<0.5	1.4	33	37	4.3	<0.5	1.6	19	<0.05	
CICF25	3/18/13 7:17	3/19/13 6:17	24	DT	1100	9.36	8.91	13.1	<0.1	1.78	0.75	0.1	19	7				<0.5	2.7	<0.5	1.1	26	210	4.2	<0.5	2.1	22	<0.05	1280
CICF25	3/18/13 7:17	3/19/13 6:17	24	DF														<0.5	2.6	<0.5	0.81	23	23	4	<0.5	2	14	<0.05	
CICF25	4/8/13 9:05	4/9/13 8:05	24	DT	1270	8.97	14.1	12.9	0.1	4.48	1.28	0.09	33	<5				<0.5	3.4	<0.5	0.98	24	200	5.6	0.53	2.7	28	<0.05	265
CICF25	4/8/13 9:05	4/9/13 8:05	24	DF														<0.5	3.3	<0.5	0.77	22	25	4.8	<0.5	2.5	16	<0.05	
CICF25	5/14/13 9:40	5/15/13 8:40	24	DT	4240	8.99	2.25	9.7	<0.1	4.71	0.28	0.03	<5	<5				<0.5	2.9	<0.5	1.1	19	39	1.6	<0.5	0.98	21	<0.05	285
CICF25	5/14/13 9:40	5/15/13 8:40	24	DF														<0.5	2.8	<0.5	1.1	18	<20	1.6	<0.5	1	21	<0.05	
CICF25	6/17/13 9:56	6/18/13 8:56	24	DT	1330	9.28	5.04	5.1	0.3	2.41	1.26	0.2	12	8	207	240	13.6	<0.5	3.2	<0.5	0.77	25	68	4.9	<0.5	2.3	15	<0.05	285
CICF25	6/17/13 9:56	6/18/13 8:56	24	DF														<0.5	3.4	<0.5	0.68	22	21	4.7	<0.5	2.3	10	<0.05	
CMCG02	7/24/12 13:05	7/25/12 12:05	24	DT	877	8.81	6.01	0.6	0.2	2.5	1.15	0.13	10	8				<0.5	2.5	<0.5	0.64	22	130	4.3	1.2	1.2	21		320
CMCG02	7/24/12 13:05	7/25/12 12:05	24	DF														<0.5	2.6	<0.5	0.51	17	53	3.1	0.63	0.84	14		
CMCG02	8/6/12 12:07	8/7/12 11:07	24	DT	900	8.71	11.6	<0.4	<0.1	2.18	2.59	0.47	22	16				<0.5	2.8	<0.5	0.72	23	310	2.8	1.8	0.85	25		180
CMCG02	8/14/12 8:56	8/15/12 7:56	24	DT	1130	8.62	19.1	0.5	0.1	2.62	1.69	0.35	30	18															
CMCG02	9/10/12 9:18	9/11/12 8:18	24	DT	831	8.21	7.33	<0.4	0.4	2.84	1.78	0.42	11	7	123	112	13.6	<0.5	2.7	<0.5	0.58	16	230	2.8	1.5	0.73	26	<0.05	220
CMCG02	9/10/12 9:18	9/11/12 8:18	24	DF														<0.5	2.6	<0.5	<0.5	9.5	73	2.4	<0.5	0.69	9	<0.05	
CMCG02	10/9/12 9:11	10/10/12 8:11	24	DT	824	8.41	18.19	0.8	0.3	2.07	1.19	0.23	34	11				<0.5	2.6	<0.5	1.3	19	670	2.6	2.8	0.63	22	<0.05	190
CMCG02	10/9/12 9:11	10/10/12 8:11	24	DF														<0.5	2.4	<0.5	<0.5	13	41	1.9	<0.5	0.62	6.1	NR	
CMCG02	10/11/12 2:37	10/11/12 3:40	10	ST	1460	7.03	781	14.2	3.5	34.7	2.29	0.74	1280	668	119	99.2	158	0.95	10	2.8	28	400	16000	52	70	4.5	1100	0.15	240
CMCG02	10/11/12 2:37	10/11/12 3:40	10	SF														<0.5	3.7	<0.5	3.4	57	790	26	3.6	1.7	95	<0.05	
CMCG02	10/11/12 4:40	10/11/12 22:40	19	ST	495	6.9	21.1	7.7	0.8	5.44	2.67	0.44	33	15	49.4	51.6	68.4	<0.5	2.7	<0.5	3.7	90	860	21	5.9	0.86	300	<0.05	120
CMCG02	10/11/12 4:40	10/11/12 22:40	19	SF														<0.5	2.8	<0.5	3	82	380	21	2.9	0.87	260	<0.05	

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

Station	Composite Begin	Composite End	Samp	Type	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	Total Ammonia as N	TKN	TotalPhosphorus as PO	OrthoPhosphate as P	TSS	VSS	Cl	SO_4	DOC	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hg	Field Hardness
					uS/cm	SU	NTU	mg/L										ug/L											mg/L
CMCG02	11/26/12 11:53	11/27/12 10:53	24	DT	761	9.04	3.39	1.4	<0.1	1.52	0.82	0.11	<5	<5				<0.5	2.2	<0.5	0.56	15	88	2.1	0.65	0.69	24	<0.05	190
CMCG02	11/26/12 11:53	11/27/12 10:53	24	DF														<0.5	2.1	<0.5	<0.5	13	29	1.9	<0.5	0.72	16	<0.05	
CMCG02	11/29/12 2:22	11/29/12 3:22	6	ST	304	7.47	70.3	11	1.15	4.59	1.02	0.09	158	80	29.6	24.8	33.3	<0.5	2.5	<0.5	4.4	86	2000	11	11	0.5	380	0.058	80
CMCG02	11/29/12 2:22	11/29/12 3:22	6	SF														<0.5	2	<0.5	1	45	120	7.7	1.2	<0.5	160	<0.05	
CMCG02	11/29/12 5:22	11/30/12 3:22	12	ST	354	7.74	14.3	5.6	0.2	2.1	1.69	0.44	14	8	33.7	33.8	18.6	<0.5	2.3	<0.5	2	51	420	5.5	2.4	<0.5	130	<0.05	110
CMCG02	11/29/12 5:22	11/30/12 3:22	12	SF														<0.5	2.1	<0.5	1.4	39	110	4.9	0.89	<0.5	90	<0.05	
CMCG02	11/30/12 5:22	12/1/12 1:22	11	ST	257	7.28	33.9	4.5	0.2	2.34	1.81	0.48	13	7	20.5	22.9	18.3	<0.5	2.4	<0.5	3.4	62	580	6.4	3.6	<0.5	150	<0.05	60
CMCG02	11/30/12 5:22	12/1/12 1:22	11	SF														<0.5	2.2	<0.5	2.6	54	120	5.7	1.4	<0.5	110	<0.05	
CMCG02	12/10/12 11:01	12/11/12 10:01	24	DT	713	9.36	1.92	1.4	<0.1	1.25	0.52	0.1	<5	<5				<0.5	2.2	<0.5	4.1	21	58	3.2	<0.5	0.63	8.8	<0.05	140
CMCG02	12/10/12 11:01	12/11/12 10:01	24	DF														<0.5	2.2	<0.5	4	18	<20	1.6	<0.5	0.65	5.3	<0.05	
CMCG02	1/22/13 11:44	1/23/13 10:44	24	DT														<0.5	2.1	<0.5	0.52	22	100	1.6	0.56	1.1	14	<0.05	135
CMCG02	1/22/13 11:44	1/23/13 10:44	24	DF														<0.5	2.1	<0.5	<0.5	19	23	1.5	<0.5	1.1	9.2	<0.05	
CMCG02	2/25/13 11:50	2/26/13 10:50	24	DT	799	8.76	7.06	1.7	<0.1	1.78	1.11	0.15	12	6				<0.5	2	<0.5	1.1	22	220	3.4	1.9	1	28	<0.05	180
CMCG02	2/25/13 11:50	2/26/13 10:50	24	DF														<0.5	2.1	<0.5	1	19	92	3.3	1.1	1.2	15	<0.05	
CMCG02	3/12/13 12:26	3/13/13 11:26	24	DT	1480	8.92	2.85	7.9	0.2	3.92	0.5	0.12	<5	<5															
CMCG02	3/18/13 10:56	3/19/13 9:56	24	DT	1200	9.15	18.6	0.8	<0.1	2.55	1.19	0.03	36	23				<0.5	2.4	<0.5	1.2	31	360	4.1	1.4	1.4	34	<0.05	205
CMCG02	3/18/13 10:56	3/19/13 9:56	24	DF														<0.5	2.1	<0.5	0.52	22	37	3.1	<0.5	1.2	5.1	<0.05	
CMCG02	4/8/13 11:18	4/9/13 10:18	24	DT	894	8.23	9.75	0.7	0.2	2.32	1.41	0.13	14	10				<0.5	2.5	<0.5	0.74	20	190	3.9	2.2	1.1	35	<0.05	220
CMCG02	4/8/13 11:18	4/9/13 10:18	24	DF														<0.5	2.3	<0.5	0.57	17	93	3.7	1.5	0.96	25	<0.05	
CMCG02	5/14/13 12:20	5/15/13 10:29	24	DT	1150	8.95	3.21	<0.4	<0.1	4.57	0.83	0.11	<5	<5				<0.5	2.4	<0.5	0.7	22	75	2.5	0.82	0.77	13	<0.05	255
CMCG02	5/14/13 12:20	5/15/13 10:29	24	DF														<0.5	2.3	<0.5	0.6	19	38	2.3	<0.5	0.84	8.8	<0.05	
CMCG02	6/17/13 11:11	6/18/13 10:11	24	DT	763	8.3	7.07	0.6	<0.1	3.42	1.85	0.28	16	15	103	81.4	16.8	<0.5	2.8	<0.5	0.63	15	180	3.8	1.8	0.74	20	<0.05	235
CMCG02	6/17/13 11:11	6/18/13 10:11	24	DF														<0.5	2.6	<0.5	<0.5	12	80	3.6	0.89	0.71	40	<0.05	
EGWC05	9/17/12 10:40	9/18/12 9:40	24	DT	1580	8.22	40	0.8	0.2	2.06	0.67	0.04	104	20	165	311	6.18	<0.5	4.2	<0.5	0.91	8.7	970	3.2	1.6	1.1	16	<0.05	420
EGWC05	9/17/12 10:40	9/18/12 9:40	24	DF														<0.5	3.7	<0.5	<0.5	3.6	28	2.6	<0.5	1.1	3	<0.05	
EGWC05	2/19/13 23:47	2/20/13 0:47	6	ST	1530	7.98	73.5	5.7	0.2	2.95	0.38	<0.02	174	34	168	281		<0.5	3.8	<0.5	3.6	25	3000	5.5	7.7	1.7	91	<0.05	460
EGWC05	2/19/13 23:47	2/20/13 0:47	6	SF														<0.5	1.8	0.6	<0.5	12	35	3	<0.5	1.4	16	<0.05	
EGWC05	2/20/13 2:47	2/21/13 0:47	12	ST	558	7.69	16.4	5.3	0.2	1.45	0.32	<0.02	23	7	40.1	66.7	10.8	<0.5	1.8	<0.5	1.4	20	760	3.1	2.6	0.69	39	<0.05	135
EGWC05	2/20/13 2:47	2/21/13 0:47	12	SF														<0.5	1.4	<0.5	0.51	14	40	2.4	<0.5	0.61	18	<0.05	
EGWC05	5/28/13 10:10	5/29/13 9:10	24	DT	1680	8.28	7.69	<0.4	<0.1	1.1	0.19	<0.02	10	<5	162	330	8.07	<0.5	2.9	<0.5	<0.5	11	260	4	<0.5	1.4	6	<0.05	400
EGWC05	5/28/13 10:10	5/29/13 9:10	24	DF														<0.5	2.6	<0.5	<0.5	9.5	53	4.1	<0.5	9.2	4	<0.05	
FCVA03	9/17/12 9:11	9/18/12 8:11	24	DT	1330	8.43	16.6	0.7	<0.1	1.29	0.27	<0.02	26	10	206	205	6.64	<0.5	4.2	<0.5	<0.5	17	160	2.7	0.64	1.8	12	<0.05	280
FCVA03	9/17/12 9:11	9/18/12 8:11	24	Dup	1330	8.45	12.8	0.8	<0.1	1.43	0.28	<0.02	25	7	204	189	6.62	<0.5	3.9	<0.5	<0.5	16	130	2.5	0.64	1.8	12	<0.05	280
FCVA03	9/17/12 9:11	9/18/12 8:11	24	DF														<0.5	3.8	<0.5	<0.5	12	<20	2.4	<0.5	1.6	5.4	<0.05	
FCVA03	9/17/12 9:11	9/18/12 8:11	24	Dup														<0.5	3.9	<0.5	<0.5	13	<20	2.4	<0.5	1.8	6.5	<0.05	
FCVA03	2/19/13 21:33	2/19/13 22:33	6	ST	313	7.56	71.5	5	0.5	3.14	0.2	<0.02	209	80	31.5	34.8		<0.5	2.4	0.59	8.8	63	4100	10	21	1	470	<0.05	60
FCVA03	2/19/13 21:33	2/19/13 22:33	6	SF														<0.5	1.2	<0.5	0.65	23	56	2.8	<0.5	0.94	59	<0.05	
FCVA03	2/20/13 0:34	2/20/13 22:34	12	ST	798	8.21	11.9	7.5	<0.1	1	0.3	<0.02	16	6	97.2	84.3	7.47	<0.5	1.7	<0.5	1.2	18	440	2.7	2.2	0.96	42	<0.05	225
FCVA03	2/20/13 0:34	2/20/13 22:34	12	SF														<0.5	1.5	<0.5	0.64	14	21	2.3	<0.5	0.87	20	<0.05	
FCVA03	5/28/13 9:42	5/29/13 8:42	24	DT	1370	8.68	2.46	0.5	<0.1	3.41	0.11	<0.02	<5	<5	180	194	8.74	<0.5	3.9	<0.5	<0.5	17	40	3.3	<0.5	2.1	6.7	<0.05	280
FCVA03	5/28/13 9:42	5/29/13 8:42	24	DF														<0.5	3.9	<0.5	<0.5	16	<20	3.3	<0.5	2.3	5.6	<0.05	
SADF01	7/24/12 12:30	7/25/12 11:30	24	DT	2390	8.07	4.06	7	<0.1	0.6	0.15	<0.02	8	<5				<0.5	1.7	<0.5	<0.5	9	64	4.4	<0.5	8.7	6.3		825
SADF01	7/24/12 12:30	7/25/12 11:30	24	DF														<0.5	1.9	<0.5	<0.5	6.4	<20	1.4	<0.5	7.3	5.5		
SADF01	8/6/12 11:54	8/7/12 10:54	24	DT	2540	8.12	4.12	9.2	<0.1	1.02	0.17	<0.02	6	<5				<0.5	2.2	<0.5	<0.5	9.1	94	1.7	<0.5	7.3	6.6		835
SADF01	8/6/12 11:54	8/7/12 10:54	24	DF														<0.5	2.1	0.85	<0.5	7.3	25	1.7	<0.5	7.2	8.2		
SADF01	9/10/12 9:57	9/11/12 8:57	24	DT	2350	8.13	14	8.6	<0.1	1.02	0.26	<0.02	42	6	225	892	3.69	<0.5	1.9	<0.5	0.51	15	320	1.7	0.9	7.3	14	<0.05	855
SADF01	9/10/12 9:57	9/11/12 8:57	24	DF														<0.5	1.7	<0.5	<0.5	9	28	1.5	<0.5	7.2	7.9	<0.05	

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

Station	Composite Begin	Composite End	Samp	Type	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	Total Ammonia as N	TKN	TotalPhosphorus as PO	OrthoPhosphate as P	TSS	VSS	Cl	SO_4	DOC	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hg	Field Hardness
					uS/cm	SU	NTU	mg/L										ug/L											mg/L
SADF01	10/9/12 9:42	10/10/12 8:42	24	DT	2290	8.07	4.53	8.6	<0.1	0.7	0.16	<0.02	9	<5				<0.5	1.6	<0.5	<0.5	9.1	120	1.4	0.6	6.8	10	<0.05	740
SADF01	10/9/12 9:42	10/10/12 8:42	24	DF														<0.5	1.6	<0.5	<0.5	6.2	<20	1.4	<0.5	6.8	5.8	<0.05	
SADF01	10/11/12 10:18	10/11/12 11:21	10	ST	923	7.15	502	8.6	1.48	10.4	0.58	<0.02	1680	410	114	382	39.7	<0.5	8.3	1.1	12	140	9700	20	25	5.9	580	0.074	890
SADF01	10/11/12 10:18	10/11/12 11:21	10	SF														<0.5	2.7	<0.5	1.2	17	210	11	0.62	3.6	100	<0.05	
SADF01	10/11/12 12:21	10/12/12 9:21	22	ST	1000	7.16	33.1	7.7	0.7	6.08	0.43	0.04	70	27	72.4	226	49.4	<0.5	3.2	0.68	4.5	72	2700	16	12	3.5	260	<0.05	270
SADF01	10/11/12 12:21	10/12/12 9:21	22	SF														<0.5	2.2	<0.5	1.8	28	360	13	2	3.4	130	<0.05	
SADF01	11/26/12 11:53	11/27/12 10:53	24	DT	2490	8.22	1.52	15.6	<0.1	0.7	0.11	<0.02	<5	<5	172	719	3.45	<0.5	1.3	<0.5	<0.5	11	34	1.2	<0.5	7.6	6.9	<0.05	880
SADF01	11/26/12 11:53	11/27/12 10:53	24	DF														<0.5	1.2	<0.5	<0.5	9.7	<20	1.3	<0.5	7.7	7	<0.05	
SADF01	11/29/12 3:53	11/29/12 4:53	6	ST	1130	7.91	68.2	10.3	0.8	3.49	0.4	0.03	154	46	78.3	249	13.6	<0.5	2.5	<0.5	3	52	1800	6.3	6.8	3.1	160	<0.05	330
SADF01	11/29/12 3:53	11/29/12 4:53	6	SF														<0.5	1.5	<0.5	0.71	27	100	4.3	0.67	3	56	<0.05	
SADF01	11/29/12 6:53	11/30/12 4:53	12	ST	925	7.75	19.7	11	0.4	2.85	1.2	0.18	29	9	58.8	200	14	<0.5	2	<0.5	1.5	37	700	5.7	2.5	2.9	74	<0.05	290
SADF01	11/29/12 6:53	11/30/12 4:53	12	SF														<0.5	1.6	<0.5	0.78	25	120	5	0.77	2.8	47	<0.05	
SADF01	11/30/12 6:53	12/1/12 14:53	17	ST	914	7.74	9.01	8.9	0.5	1.75	0.79	0.17	6	<5	55.8	197	15.1	<0.5	2.2	<0.5	1.5	36	360	5.7	2	2.9	65	<0.05	270
SADF01	11/30/12 6:53	12/1/12 14:53	17	SF														<0.5	1.9	0.64	1.1	28	110	4.9	0.71	2.7	46	<0.05	
SADF01	12/10/12 10:31	12/11/12 9:31	24	DT	2260	8.23	2.72	39	<0.1	0.6	1.14	0.34	<5	<5				<0.5	1.2	<0.5	<0.5	17	110	2.6	<0.5	6	11	<0.05	730
SADF01	12/10/12 10:31	12/11/12 9:31	24	DF														<0.5	1.1	<0.5	<0.5	15	<20	2.5	<0.5	6	9.4	<0.05	
SADF01	1/22/13 11:18	1/23/13 10:18	24	DT														<0.5	1.3	<0.5	<0.5	15	65	1.4	<0.5	9.3	9.2	<0.05	925
SADF01	1/22/13 11:18	1/23/13 10:18	24	DF														<0.5	1.2	<0.5	<0.5	11	<20	1.4	<0.5	9.2	9.6	<0.05	
SADF01	2/25/13 11:31	2/26/13 10:31	24	DT	2330	8.24	3.4	12.4	<0.1	0.9	0.17	<0.02	7	<5				<0.5	1.2	<0.5	0.63	12	280	6.5	<0.5	9.6	12	<0.05	850
SADF01	2/25/13 11:31	2/26/13 10:31	24	DF														<0.5	1.3	<0.5	0.68	9.5	88	6.5	<0.5	10	7.8	<0.05	
SADF01	3/18/13 10:26	3/19/13 9:26	24	DT	2490	8.2	1.01	12.5	<0.1	0.8	0.12	<0.02	5	<5	151	790	3.44	<0.5	1.3	5.2	<0.5	15	100	6.3	<0.5	9.7	10	<0.05	840
SADF01	3/18/13 10:26	3/19/13 9:26	24	DF														<0.5	1.3	5.3	<0.5	14	60	6.5	<0.5	9.9	9.9	<0.05	
SADF01	4/8/13 10:55	4/9/13 9:55	24	DT	2430	8.08	1	10.7	<0.1	0.4	<0.06	<0.02	<5	<5				<0.5	1.2	<0.5	<0.5	9.3	36	5.3	<0.5	9.7	6.3	<0.05	970
SADF01	4/8/13 10:55	4/9/13 9:55	24	DF														<0.5	1.2	<0.5	<0.5	8.3	22	5.4	<0.5	9.5	6.5	<0.05	
SADF01	5/14/13 11:53	5/15/13 10:13	24	DT	2450	8.32	5.53	6.6	<0.1	1.49	0.32	<0.02	22	8				<0.5	1.8	<0.5	0.52	15	260	1.8	0.56	7.8	14	<0.05	875
SADF01	5/14/13 11:53	5/15/13 10:13	24	DF														<0.5	1.6	<0.5	<0.5	11	20	1.6	<0.5	7.4	6.8	<0.05	
SADF01	6/17/13 10:48	6/18/13 9:48	24	DT	2560	8.34	3.26	6.6	<0.1	1.18	0.14	<0.02	15	<5	267	1050	3.62	<0.5	1.5	<0.5	0.62	16	240	6.5	0.58	8	9.4	<0.05	870
SADF01	6/17/13 10:48	6/18/13 9:48	24	DF														<0.5	1.4	<0.5	<0.5	12	31	6.3	<0.5	7.9	4.6	<0.05	
SDMF05	7/24/12 11:51	7/25/12 10:51	24	DT	3110	8.29	26.5	<0.4	<0.1	1.22	0.43	<0.02	30	9				<0.5	7.8	<0.5	0.73	5.3	620	4.6	0.78	11	4.8		700
SDMF05	7/24/12 11:51	7/25/12 10:51	24	DF														<0.5	7.7	<0.5	<0.5	2.5	<20	2.3	<0.5	11	<2		
SDMF05	8/6/12 11:28	8/7/12 10:28	24	DT	3020	8.3	28.8	<0.4	<0.1	1.19	0.5	<0.02	42	10				<0.5	8.8	<0.5	1.3	7.5	1200	3.1	0.86	9.4	7.3		670
SDMF05	8/14/12 9:43	8/15/12 8:43	24	DT	3150	8.26	37	<0.4	0.1	1.7	0.57	<0.02	48	9															
SDMF05	9/10/12 10:39	9/11/12 9:39	24	DT	3250	8.26	59	<0.4	<0.1	1.72	0.58	<0.02	72	14	462	987	5.99	<0.5	10	<0.5	2.3	11	2200	3.8	1.7	11	14	<0.05	760
SDMF05	9/10/12 10:39	9/11/12 9:39	24	DF														<0.5	9.7	<0.5	<0.5	3.1	<20	2.4	<0.5	11	<2	<0.05	
SDMF05	10/10/12 9:30			DT	2890	8.35	21.6	15.9	<0.1	1.03	0.28	<0.02	35	8				<0.5	4.9	<0.5	1.1	6	970	<0.05	3	0.87	21	12	630
SDMF05	10/10/12 9:30			DF														<0.5	4.7	<0.5	<0.5	3.3	<20		2.4	<0.5	20	4.3	
SDMF05	11/26/12 10:53	11/27/12 9:53	24	DT	2790	8.34	22.5	10.9	<0.1	1.59	0.36	<0.02	28	7	260	620	6.97	<0.5	4.2	<0.5	0.86	15	620	2.9	0.78	16	7	<0.05	650
SDMF05	11/26/12 10:53	11/27/12 9:53	24	DF														<0.5	3.7	<0.5	<0.5	9.9	<20	2.4	<0.5	16	3.5	<0.05	
SDMF05	11/29/12 10:09	11/29/12 11:09	6	ST	2690	8.28	21.2	10.8	<0.1	1.43	0.44	<0.02	36	8	264	627	7.09	<0.5	4.7	<0.5	0.92	14	840	2.8	1.6	17	14	<0.05	630
SDMF05	11/29/12 10:09	11/29/12 11:09	6	SF														<0.5	4	<0.5	<0.5	9.2	<20	2	<0.5	17	3	<0.05	
SDMF05	11/29/12 13:11	11/30/12 11:11	12	ST	1360	7.91	20.9	15.5	0.2	1.87	0.88	0.15	21	6	109	272	13.1	<0.5	3.9	<0.5	1.1	19	570	3.6	0.94	8	23	<0.05	320
SDMF05	11/29/12 13:11	11/30/12 11:11	12	SF														<0.5	3.5	<0.5	<0.5	14	57	3	<0.5	7.9	13	<0.05	
SDMF05	11/30/12 13:11	12/2/12 7:11	22	ST	1140	7.88	25.4	11.2	0.3	1.39	0.77	0.15	25	<5	90.2	208	10.5	<0.5	4	<0.5	1.3	17	690	3.7	1.1	6.4	21	<0.05	270
SDMF05	11/30/12 13:11	12/2/12 7:11	22	SF														<0.5	3.5	<0.5	<0.5	12	47	3	<0.5	6	9.3	<0.05	
SDMF05	12/10/12 10:02	12/11/12 9:02	24	DT	2500	8.48	27.1	6.8	<0.1	1.84	0.5	<0.02	38	12				<0.5	3.8	<0.5	0.86	8.5	700	2.4	0.77	14	8.1	<0.05	610
SDMF05	12/10/12 10:02	12/11/12 9:02	24	DF														<0.5	3.1	<0.5	<0.5	5	<20	1.8	<0.5	13	<2	<0.05	
SDMF05	1/22/13 10:46	1/23/13 9:46	24	DT														<0.5	3.7	<0.5	1	9.9	800	2.3	0.86	13	12	<0.05	410
SDMF05	1/22/13 10:46	1/23/13 9:46	24	DF														<0.5	3.2	<0.5	<0.5	5.5	<20	1.6	<0.5	13	2.2	<0.05	

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

Station	Composite Begin	Composite End	Samp	Type	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	Total Ammonia as N	TKN	TotalPhosphorus as PO	OrthoPhosphate as P	TSS	VSS	Cl	SO_4	DOC	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hg	Field Hardness
					uS/cm	SU	NTU	mg/L										ug/L											mg/L
SDMF05	2/25/13 11:12	2/26/13 10:12	24	DT	2280	8.21	30.5	17.5	<0.1	1.45	0.68	<0.02	53	11				<0.5	4.9	<0.5	1.6	13	1300	5.4	0.98	18	14	<0.05	605
SDMF05	2/25/13 11:12	2/26/13 10:12	24	DF														<0.5	4.6	<0.5	<0.5	6	20	4.6	<0.5	19	2.5	<0.05	
SDMF05	3/12/13 12:03	3/13/13 11:03	24	DT	2050	8.24	27.2	9.1	<0.1	1.2	0.51	0.14	36	10															
SDMF05	3/18/13 10:26	3/19/13 9:26	24	DT	2500	8.2	36.6	9.1	<0.1	1.36	0.62	<0.02	52	11	211	660	4.58	<0.5	4.4	<0.5	1.8	12	1500	5.5	0.99	17	13	<0.05	600
SDMF05	3/18/13 10:26	3/19/13 9:26	24	DF														<0.5	3.9	<0.5	<0.5	5.7	<20	4.4	<0.5	17	<2	<0.05	
SDMF05	4/8/13 10:30	4/9/13 9:30	24	DT	2780	8.37	58.9	1.1	<0.1	1.65	1.07	<0.02	96	22				<0.5	4.5	<0.5	3.1	13	2600	6.1	1.6	13	19	<0.05	675
SDMF05	4/8/13 10:30	4/9/13 9:30	24	DF														<0.5	3.7	<0.5	<0.5	5	<20	4.6	<0.5	13	<2	<0.05	
SDMF05	5/14/13 11:16	5/15/13 10:16	24	DT	3090	8.35	69.7	<0.4	<0.1	1.86	0.84	<0.02	80	19				<0.5	7	<0.5	2.5	13	2400	3.4	1.6	11	19	<0.05	750
SDMF05	5/14/13 11:16	5/15/13 10:16	24	DF														<0.5	6.3	<0.5	<0.5	5.3	<20	2.1	<0.5	11	3.1	<0.05	
SDMF05	6/17/13 10:18	6/18/13 9:18	24	DT	2880	8.38	48.4	<0.4	<0.1	1.97	0.16	<0.02	67	18	379	939	6.39	<0.5	5.5	<0.5	2.5	13	2100	5.9	1.2	14	13	<0.05	625
SDMF05	6/17/13 10:18	6/18/13 9:18	24	DF														<0.5	4.8	<0.5	<0.5	5.8	22	5.1	<0.5	13	<2	<0.05	
WYLSED	7/24/12 11:31	7/25/12 10:31	24	DT	2210	8.12	1.31	47.1	<0.1	0.6	0.12	<0.02	<5	<5				<0.5	4.1	<0.5	0.81	5.5	24	4.7	<0.5	5.7	4.2		540
WYLSED	7/24/12 11:31	7/25/12 10:31	24	DF														<0.5	4.5	<0.5	0.75	4.5	<20	2.6	<0.5	5	3.1		
WYLSED	8/6/12 10:30	8/7/12 9:30	24	DT	2240	8.17	9.19	50	<0.1	0.7	0.13	<0.02	18	<5				<0.5	4.6	<0.5	0.79	5	67	2.6	<0.5	5.5	3.1		550
WYLSED	8/6/12 10:30	8/7/12 9:30	24	DF														<0.5	4.1	<0.5	0.64	4.1	<20	2.3	<0.5	5.3	2.2		
WYLSED	8/14/12 10:02	8/15/12 9:02	24	DT	2150	8.2	4.92	41.9	<0.1	0.8	0.13	<0.02	7	<5															
WYLSED	9/10/12 10:24	9/11/12 9:24	24	DT	2210	8.09	2.49	46.4	<0.1	0.9	0.1	<0.02	<5	<5	345	489	3.18	<0.5	4.6	<0.5	0.68	5.1	28	2.8	<0.5	5.4	3.6	<0.05	555
WYLSED	9/10/12 10:24	9/11/12 9:24	24	DF														<0.5	4.7	<0.5	0.68	4.5	<20	2.8	<0.5	5.4	2.9	<0.05	
WYLSED	10/9/12 10:30	10/10/12 9:30	24	DT	2210	8.16	1.81	60	<0.1	0.5	0.08	<0.02	<5	<5				<0.5	4.1	<0.5	0.69	4.7	<20	2.3	<0.5	5.5	3.3	<0.05	520
WYLSED	10/9/12 10:30	10/10/12 9:30	24	DF														<0.5	4.1	<0.5	0.68	4.4	<20	2.3	<0.5	5.8	3.7	<0.05	
WYLSED	11/26/12 10:42	11/27/12 9:42	24	DT	2110	8.21	3.31	74.7	<0.1	0.5	0.15	<0.02	<5	<5	219	320	3.4	<0.5	3.6	<0.5	1	4.7	<20	2.1	<0.5	5.1	3	<0.05	570
WYLSED	11/26/12 10:42	11/27/12 9:42	24	DF														<0.5	3.4	<0.5	0.99	4.7	<20	2.2	<0.5	4.8	4.4	<0.05	
WYLSED	12/1/12 0:28	12/1/12 1:28	6	ST	735	7.67	380	9.1	0.2	3.1	1.87	0.21	410	66	66.7	86.4	12.5	<0.5	5.8	1.1	7.6	29	6300	10	7	1	85	0.068	170
WYLSED	12/1/12 0:28	12/1/12 1:28	6	SF														<0.5	3.8	<0.5	0.52	12	41	3.7	<0.5	0.88	9	<0.05	
WYLSED	12/1/12 3:28	12/2/12 1:28	12	ST	1120	8	38.1	24.6	<0.1	1.35	0.77	0.16	44	6	111	138	9.89	<0.5	4	<0.5	1.6	15	1100	3.9	1.2	1.8	18	<0.05	270
WYLSED	12/1/12 3:28	12/2/12 1:28	12	SF														<0.5	3.7	<0.5	<0.5	12	<20	2.9	<0.5	1.8	7.6	<0.05	
WYLSED	12/2/12 3:28	12/4/12 7:28	19	ST	722	7.48	61.8	15.9	<0.1	1.13	1.15	0.2	83	13	65.2	85.7	8.22	<0.5	3.6	<0.5	2.7	16	2100	5	1.8	1.3	27	<0.05	170
WYLSED	12/2/12 3:28	12/4/12 7:28	19	SF														<0.5	3.1	<0.5	0.54	9.8	36	3	<0.5	1.2	6	<0.05	
WYLSED	12/10/12 11:18	12/11/12 10:18	24	DT	2070	8.22	1.16	73.5	<0.1	0.4	0.26	0.07	<5	<5				<0.5	3.8	<0.5	0.85	5	<20	1.7	<0.5	5.2	2.8	<0.05	570
WYLSED	12/10/12 11:18	12/11/12 10:18	24	DF														<0.5	3.8	<0.5	0.93	4.5	<20	1.7	<0.5	5.2	3	<0.05	
WYLSED	1/22/13 10:05	1/23/13 9:05	24	DT														<0.5	3.8	<0.5	1.1	4.8	<20	1.7	<0.5	6	3.6	<0.05	600
WYLSED	1/22/13 10:05	1/23/13 9:05	24	DF														<0.5	3.9	<0.5	1	4.4	<20	1.8	<0.5	5.9	3.6	<0.05	
WYLSED	2/25/13 10:31	2/26/13 9:31	24	DT	1920	8.13	1.77	78	<0.1	0.6	0.17	0.04	<5	<5				<0.5	3.6	<0.5	5.9	7.5	43	8	0.6	6.3	4.5	<0.05	535
WYLSED	2/25/13 10:31	2/26/13 9:31	24	DF														<0.5	3.5	<0.5	1.3	6.7	<20	5.2	<0.5	6.1	5.3	<0.05	
WYLSED	3/12/13 11:23	3/13/13 11:03	24	DT	1780	8.2	1.67	54.4	<0.1	0.6	0.12	0.03	<5	<5															
WYLSED	3/18/13 9:11	3/19/13 8:11	24	DT	1620	8.25	4.68	51	<0.1	0.5	0.15	<0.02	9	<5	145	190	2.56	<0.5	2.9	<0.5	0.89	7.3	120	4.1	<0.5	4.4	4.7	<0.05	395
WYLSED	3/18/13 9:11	3/19/13 8:11	24	DF														<0.5	2.9	<0.5	0.73	6.7	<20	3.9	<0.5	5.3	3.3	<0.05	
WYLSED	4/8/13 9:54	4/9/13 8:54	24	DT	2200	8.19	0.4	73	<0.1	0.4	0.08	<0.02	<5	<5				<0.5	3.2	<0.5	1.1	7.4	<20	4.5	<0.5	6.5	2.9	<0.05	565
WYLSED	4/8/13 9:54	4/9/13 8:54	24	DF														<0.5	3.1	<0.5	1.1	6.8	<20	4.8	<0.5	6.4	3.6	<0.05	
WYLSED	5/14/13 10:29	5/15/13 9:29	24	DT	1980	8.22	0.7	51.5	<0.1	0.5	0.16	0.03	<5	<5				<0.5	3.8	<0.5	0.74	7.4	34	2.1	<0.5	4.6	4.6	<0.05	540
WYLSED	5/14/13 10:29	5/15/13 9:29	24	DF														<0.5	3.9	<0.5	0.69	7	<20	2	<0.5	4.6	3.9	<0.05	
WYLSED	6/17/13 10:54	6/18/13 9:45	24	DT	2290	8.32	1.47	53.3	<0.1	0.9	0.16	<0.02	5	<5	344	568	3.78	<0.5	3.5	<0.5	0.79	7.2	39	5.3	<0.5	7.7	5	<0.05	
WYLSED	6/17/13 10:54	6/18/13 9:45	24	DF														<0.5	3.5	<0.5	0.75	7	<20	5.4	<0.5	8	4.3	<0.05	565

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

									Organophosphate				Synthetic Pyrethroid									Fipronil and Metabolites			
	Composite	Composite			Turbidity	TSS	TOC	Glyphosphate	Chlorpyrifos	Diazinon	Dimethoate	Malathion	Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Esfenvalerate	L-Cyhalothrin	Permethrin	Prallethrin	Desulfinyl Fipronil	Fipronil	Fipronil Sulfide	Fipronil Sulfone
Station	Begin	End	Samp	Type	NTU		mg/L	ug/L	ng/L				ng/L									ng/L			
BARSED	7/24/12 11:02	7/25/12 10:02	24	DT	28.7	54			<10	<10	<10	<10													
BARSED	8/6/12 9:45	8/7/12 8:45	24	DT	11.4	23			<10	<10	<10	<10													
BARSED	9/10/12 9:53	9/11/12 8:53	24	DT	14.8	32	4.41	<5	<10	<10	<10	<10													
BARSED	10/9/12 10:45	10/10/12 9:45	24	DT	11	16			<10	<10	<10	<10													
BARSED	11/26/12 11:42	11/27/12 10:42	24	DT	19	34	4.1	<5	<10	<10	<10	<10													
BARSED	11/29/12 6:04	11/29/12 7:04	6	ST	70.3	133	8.95	6.7	<10	<10	<10	<10	<2	7.4	<2	<2	<2	NR	<2	<5	<2				
BARSED	11/29/12 9:04	11/30/12 7:04	12	ST	14.1	20	11.9	6.6	<10	<10	<10	<10	<2	19	<2	<2	<2	NR	<2	18	<2		47	4.5	47
BARSED	11/30/12 9:04	12/2/12 9:04	24	ST	22.2	28	10.8	<5	<10	<10	<10	<10													
BARSED	12/10/12 10:58	12/11/12 9:58	24	DT	8.41	12			<10	<10	<10	<10													
BARSED	1/22/13 11:01	1/23/13 10:01	24	DT	NR	NR			<10	<10	<10	<10													
BARSED	2/25/13 10:44	2/26/13 9:44	24	DT	8.1	14			<10	<10	<10	<10													
BARSED	3/18/13 7:48	3/19/13 6:48	24	DT	6.58	17	3.67	<5	<10	<10	<10	<10													
BARSED	4/8/13 9:27	4/9/13 8:27	24	DT	16	31			<10	<10	<10	<10													
BARSED	5/14/13 10:11	5/15/13 9:11	24	DT	22	54			<10	<10	<10	<10													
BARSED	6/17/13 10:25	6/18/13 9:25	24	DT	7.41	15	4.88		<10	<10	<10	<10													
BARSED	6/17/13 10:25	6/18/13 9:25	24	Dup	7.09	16	4.76	9.3	<10	<10	<10	<10													
BCC02	9/17/12 10:12	9/18/12 9:12	24	DT	17.5	39	6.17	<5	<10	<10	<10	<10													
BCC02	5/28/13 9:37	5/29/13 8:37	24	DT	5.7	7	6.93	<5	<10	<10	<10	<10													
CARB01	9/17/12 9:41	9/18/12 8:41	24	DT	2.19	<5	6.29	<5	<10	<10	<10	<10													
CARB01	2/19/13 22:03	2/19/13 23:03	6	ST	59.5	104		12	<10	<10	<10	<10	<2	170	<2	<2	19	NR	72	96	<2				
CARB01	2/20/13 1:04	2/20/13 23:04	12	ST	21.7	36	10.6	22	<10	<10	<10	<10	<2	21	<2	<2	18	NR	6.5	41	<2				
CARB01	5/28/13 10:18	5/29/13 9:18	24	DT	5.76	8	7.11	<5	<10	<10	<10	<10													
CARB01	5/28/13 10:18	5/29/13 9:18	24	Dup	5.56	8	6.88	<5	<10	<10	<10	<10													
CCBA01	9/17/12 8:49	9/18/12 7:49	24	DT	4.25	<5	4.99	840	<10	<10	<10	<10													
CCBA01	5/28/13 9:22	5/29/13 8:22	24	DT	5.13	6	6.61	<5	<10	<10	<10	<10													
CICF25	7/24/12 10:37	7/25/12 9:37	24	DT	4.83	6			<10	<10	<10	<10													
CICF25	8/14/12 10:26	8/15/12 9:26	24	DT	6.24	12			<10	<10	<10	<10													
CICF25	9/10/12 9:17	9/11/12 8:17	24	DT	32.4	58	14.8	<5	<10	12	<10	<10													
CICF25	10/9/12 10:08	10/10/12 9:08	23	DT	111	149			<10	<10	<10	<10													
CICF25	11/26/12 9:21			DT	9.8	16			<10	<10	<10	<10													
CICF25	11/29/12 3:25	11/29/12 4:25	6	ST	59.5	129	25.2	<5	<10	<10	<10	<10	<2	24	<2	<2	<2	NR	<2	32	<2				
CICF25	11/29/12 6:25	11/30/12 4:25	12	ST	15.9	30	10.9	<5	<10	<10	<10	<10	<2	13	<2	<2	<2	NR	<2	8.4	<2		65	5.9	60
CICF25	11/30/12 12:25	12/2/12 10:25	24	ST	23.6	40	11.2	<5	<10	<10	<10	<10													
CICF25	11/30/12 12:25	12/2/12 10:25	24	Dup	26.4	37	11.2	<5	<10	<10	<10	<10													
CICF25	12/10/12 10:36	12/11/12 9:36	24	DT	5.04	7			<10	<10	<10	10													
CICF25	1/22/13 10:31	1/23/13 9:31	24	DT					<10	<10	<10	<10													
CICF25	2/25/13 10:11	2/26/13 9:11	24	DT	2.85	<5			<10	<10	<10	<10													
CICF25	3/18/13 7:17	3/19/13 6:17	24	DT	8.91	19			<10	<10	<10	<10													
CICF25	4/8/13 9:05	4/9/13 8:05	24	DT	14.1	33			<10	<10	<10	<10													
CICF25	5/14/13 9:40	5/15/13 8:40	24	DT	2.25	<5			<10	<10	<10	<10													

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

									Organophosphate				Synthetic Pyrethroid									Fipronil and Metabolites			
Station	Composite Begin	Composite End	Samp	Type	Turbidity	TSS	TOC	Glyphosphate	Chlorpyrifos	Diazinon	Dimethoate	Malathion	Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Esfenvalerate	L-Cyhalothrin	Permethrin	Prallethrin	Desulfinyl Fipronil	Fipronil	Fipronil Sulfide	Fipronil Sulfone
					NTU		mg/L	ug/L	ng/L				ng/L									ng/L			
CICF25	6/17/13 9:56	6/18/13 8:56	24	DT	5.04	12	14.9	<5	<10	<10	<10	<10													
CMCG02	7/24/12 13:05	7/25/12 12:05	24	DT	6.01	10			<10	<10	<10	<10													
CMCG02	8/6/12 12:07	8/7/12 11:07	24	DT	11.6	22			<10	<10	<10	<10													
CMCG02	8/14/12 8:56	8/15/12 7:56	24	DT	19.1	30																			
CMCG02	9/10/12 9:18	9/11/12 8:18	24	DT	7.33	11	14.7	<5	<10	<10	<10	<10													
CMCG02	10/9/12 9:11	10/10/12 8:11	24	DT	18.19	34			<10	<10	<10	<10													
CMCG02	10/11/12 2:37	10/11/12 3:40	10	ST	781	1280	171	<100	<10	<10	<10	<10	3800	2000	<10	<10	<10	<10	<10	<25	<10				
CMCG02	10/11/12 4:40	10/11/12 22:40	19	ST	21.1	33	82.2	180	<10	<10	<10	440	<2	85	<2	<2	<2	<2	<2	<5	<2	82	93	20	74
CMCG02	11/26/12 11:53	11/27/12 10:53	24	DT	3.39	<5			<10	<10	<10	<10													
CMCG02	11/29/12 2:22	11/29/12 3:22	6	ST	70.3	158	41.2	<5	<10	<10	<10	<10	<2	65	67	78	<2	NR	<2	130	<2				
CMCG02	11/29/12 5:22	11/30/12 3:22	12	ST	14.3	14	20.4	<5	<10	<10	<10	<10	<2	29	<2	<2	<2	NR	<2	33	<2		87	11	50
CMCG02	11/30/12 5:22	12/1/12 1:22	11	ST	33.9	13	23.3	<5	<10	<10	<10	<10													
CMCG02	12/10/12 11:01	12/11/12 10:01	24	DT	1.92	<5			<10	<10	<10	<10													
CMCG02	1/22/13 11:44	1/23/13 10:44	24	DT					<10	<10	<10	<10													
CMCG02	2/25/13 11:50	2/26/13 10:50	24	DT	7.06	12			<10	<10	<10	<10													
CMCG02	3/12/13 12:26	3/13/13 11:26	24	DT	2.85	<5																			
CMCG02	3/18/13 10:56	3/19/13 9:56	24	DT	18.6	36			<10	<10	<10	<10													
CMCG02	4/8/13 11:18	4/9/13 10:18	24	DT	9.75	14			<10	<10	<10	<10													
CMCG02	5/14/13 12:20	5/15/13 10:29	24	DT	3.21	<5			<10	<10	<10	<10													
CMCG02	6/17/13 11:11	6/18/13 10:11	24	DT	7.07	16	19.3	33	<10	10	<10	<10													
EGWC05	9/17/12 10:40	9/18/12 9:40	24	DT	40	104	6.96	<5	<10	<10	<10	<10													
EGWC05	2/19/13 23:47	2/20/13 0:47	6	ST	73.5	174		12	<10	<10	<10	<10	<2	15	<2	<2	<2	NR	3.4	21	<2				
EGWC05	2/20/13 2:47	2/21/13 0:47	12	ST	16.4	23	12.1	17	<10	<10	<10	25	<2	4.7	4.7	12	<2	NR	<2	<5	<2				
EGWC05	5/28/13 10:10	5/29/13 9:10	24	DT	7.69	10	8.12	<5	<10	<10	<10	<10													
FCVA03	9/17/12 9:11	9/18/12 8:11	24	DT	16.6	26	7.39	<5	<10	<10	<10	<10													
FCVA03	9/17/12 9:11	9/18/12 8:11	24	Dup	12.8	25	7.34	<5	<10	<10	<10	<10													
FCVA03	2/19/13 21:33	2/19/13 22:33	6	ST	71.5	209		21	<10	<10	<10	<10	<2	160	<2	<2	22	NR	9.8	71	<2				
FCVA03	2/20/13 0:34	2/20/13 22:34	12	ST	11.9	16	7.53	13	<10	<10	<10	<10	<2	8.6	<2	<2	<2	NR	2.2	25	<2				
FCVA03	5/28/13 9:42	5/29/13 8:42	24	DT	2.46	<5	9.25	<5	<10	<10	<10	<10													
SADF01	7/24/12 12:30	7/25/12 11:30	24	DT	4.06	8			<10	<10	<10	<10													
SADF01	8/6/12 11:54	8/7/12 10:54	24	DT	4.12	6			<10	<10	<10	<10													
SADF01	9/10/12 9:57	9/11/12 8:57	24	DT	14	42	3.91	<5	<10	<10	<10	<10													
SADF01	10/9/12 9:42	10/10/12 8:42	24	DT	4.53	9			<10	<10	<10	<10													
SADF01	10/11/12 10:18	10/11/12 11:21	10	ST	502	1680	72.3	<25	<10	<10	<10	<10	2000	160	<2	<2	<2	<2	<2	<5	<2				
SADF01	10/11/12 12:21	10/12/12 9:21	22	ST	33.1	70	59.3	29	<10	<10	<10	150	<2	<2	<2	<2	<2	<2	<2	<5	<2	20	44	5.5	17
SADF01	11/26/12 11:53	11/27/12 10:53	24	DT	1.52	<5	3.52	<5	<10	<10	<10	<10													
SADF01	11/29/12 3:53	11/29/12 4:53	6	ST	68.2	154	18.7	10	<10	<10	<10	<10	<2	6.5	<2	<2	<2	NR	<2	29	<2				
SADF01	11/29/12 6:53	11/30/12 4:53	12	ST	19.7	29	18.1	12	<10	<10	<10	<10	<2	10	<2	<2	<2	NR	<2	<5	<2		14	<2	9.5
SADF01	11/30/12 6:53	12/1/12 14:53	17	ST	9.01	6	17.4	<5	<10	<10	<10	<10													
SADF01	12/10/12 10:31	12/11/12 9:31	24	DT	2.72	<5			<10	<10	<10	<10													
SADF01	1/22/13 11:18	1/23/13 10:18	24	DT					<10	<10	<10	<10													
SADF01	2/25/13 11:31	2/26/13 10:31	24	DT	3.4	7			<10	<10	<10	<10													
SADF01	3/18/13 10:26	3/19/13 9:26	24	DT	1.01	5	3.21	<5	<10	<10	<10	<10													
SADF01	4/8/13 10:55	4/9/13 9:55	24	DT	1	<5			<10	<10	<10	<10													
SADF01	5/14/13 11:53	5/15/13 10:13	24	DT	5.53	22			<10	<10	<10	<10													
SADF01	6/17/13 10:48	6/18/13 9:48	24	DT	3.26	15	3.63	<5	<10	<10	<10	<10													
SDMF05	7/24/12 11:51	7/25/12 10:51	24	DT	26.5	30			<10	<10	<10	<10													
SDMF05	8/6/12 11:28	8/7/12 10:28	24	DT	28.8	42			<10	<10	<10	<10													
SDMF05	8/14/12 9:43	8/15/12 8:43	24	DT	37	48																			

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

									Organophosphate				Synthetic Pyrethroid									Fipronil and Metabolites			
Station	Composite Begin	Composite End	Samp	Type	Turbidity	TSS	TOC	Glyphosphate	Chlorpyrifos	Diazinon	Dimethoate	Malathion	Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Esfenvalerate	L-Cyhalothrin	Permethrin	Prallethrin	Desulfinyl Fipronil	Fipronil	Fipronil Sulfide	Fipronil Sulfone
					NTU		mg/L	ug/L	ng/L				ng/L									ng/L			
SDMF05	9/10/12 10:39	9/11/12 9:39	24	DT	59	72	5.94	<5	<10	<10	<10	<10													
SDMF05	10/10/12 9:30			DT	21.6	35			<10	<10	<10	<10													
SDMF05	11/26/12 10:53	11/27/12 9:53	24	DT	22.5	28	7.18	<5	<10	<10	<10	<10													
SDMF05	11/29/12 10:09	11/29/12 11:09	6	ST	21.2	36	6.93	<5	<10	<10	<10	<10	<2	<2	<2	<2	<2	NR	<2	<5	<2				
SDMF05	11/29/12 13:11	11/30/12 11:11	12	ST	20.9	21	14	5.4	<10	<10	<10	<10	<2	6.8	<2	<2	<2	NR	<2	<5	<2				
SDMF05	11/30/12 13:11	12/2/12 7:11	22	ST	25.4	25	12.1	<5	<10	<10	<10	<10													
SDMF05	12/10/12 10:02	12/11/12 9:02	24	DT	27.1	38			<10	<10	<10	<10													
SDMF05	1/22/13 10:46	1/23/13 9:46	24	DT					<10	<10	<10	<10													
SDMF05	2/25/13 11:12	2/26/13 10:12	24	DT	30.5	53			<10	<10	<10	<10													
SDMF05	3/12/13 12:03	3/13/13 11:03	24	DT	27.2	36																			
SDMF05	3/18/13 10:26	3/19/13 9:26	24	DT	36.6	52	4.58	<5	<10	<10	<10	<10													
SDMF05	4/8/13 10:30	4/9/13 9:30	24	DT	58.9	96			<10	<10	<10	<10													
SDMF05	5/14/13 11:16	5/15/13 10:16	24	DT	69.7	80			<10	<10	<10	<10													
SDMF05	6/17/13 10:18	6/18/13 9:18	24	DT	48.4	67	7.1	<5	<10	<10	<10	<10													
WYLSED	7/24/12 11:31	7/25/12 10:31	24	DT	1.31	<5			<10	<10	<10	<10													
WYLSED	8/6/12 10:30	8/7/12 9:30	24	DT	9.19	18			<10	<10	<10	<10													
WYLSED	8/14/12 10:02	8/15/12 9:02	24	DT	4.92	7																			
WYLSED	9/10/12 10:24	9/11/12 9:24	24	DT	2.49	<5	3.13	<5	<10	<10	<10	<10													
WYLSED	10/9/12 10:30	10/10/12 9:30	24	DT	1.81	<5			<10	<10	<10	<10													
WYLSED	11/26/12 10:42	11/27/12 9:42	24	DT	3.31	<5	3.46	<5	<10	<10	<10	<10													
WYLSED	12/1/12 0:28	12/1/12 1:28	6	ST	380	410	12.6	15	<10	<10	<10	<10	<2	22	<2	<2	<2	NR	<2	15	<2				
WYLSED	12/1/12 3:28	12/2/12 1:28	12	ST	38.1	44	9.9	<5	<10	<10	<10	<10	<2	3.1	<2	<2	<2	NR	<2	<5	<2		16	<2	14
WYLSED	12/2/12 3:28	12/4/12 7:28	19	ST	61.8	83	8.42	5.5	<10	<10	<10	<10													
WYLSED	12/10/12 11:18	12/11/12 10:18	24	DT	1.16	<5			<10	<10	<10	<10													
WYLSED	1/22/13 10:05	1/23/13 9:05	24	DT					<10	<10	<10	<10													
WYLSED	2/25/13 10:31	2/26/13 9:31	24	DT	1.77	<5			<10	<10	<10	<10													
WYLSED	3/12/13 11:23	3/13/13 11:03	24	DT	1.67	<5																			
WYLSED	3/18/13 9:11	3/19/13 8:11	24	DT	4.68	9	2.51	<5	<10	<10	<10	<10													
WYLSED	4/8/13 9:54	4/9/13 8:54	24	DT	0.4	<5			<10	<10	<10	<10													
WYLSED	5/14/13 10:29	5/15/13 9:29	24	DT	0.7	<5			<10	<10	<10	<10													
WYLSED	6/17/13 10:54	6/18/13 9:45	24	DT	1.47	5	3.84	5.3	<10	<10	<10	<10													

Table 3: Aqueous Chemistry at SAR Mass Loadings Sites: 2012-13

	Site	CMCG02	SADF01
	Begin	10/11/12 2:37	10/11/12 10:18
	End	10/11/12 3:40	10/11/12 11:21
Acid Extractable Compounds			
2,4-Dinitrophenol	**ng/L**	<1000	<200
2-chlorophenol	**ng/L**	<500	<100
2-Nitrophenol	**ng/L**	<1000	<200
4-Nitrophenol	**ng/L**	<1000	<200
Pentachlorophenol	**ng/L**	<500	<100
Phenol	**ng/L**	<1000	310
Base/Neutral Extractable Compounds			
1,2,4-Trichlorobenzene	**ng/L**	<250	<50
1,2-Dichlorobenzene	**ng/L**	<250	<50
1,3-Dichlorobenzene	**ng/L**	<250	<50
1,4-Dichlorobenzene	**ng/L**	<250	<50
2,4-Dinitrotoluene	**ng/L**	<500	<100
2,6-Dinitrotoluene	**ng/L**	<500	<100
2-Chloronaphthalene	**ng/L**	<500	<100
3,3'-dichlorobenzidine	**ng/L**	<500	<100
Benzidine	**ng/L**	<500	<100
bis(2-Chloroethoxy)methane	**ng/L**	<500	<100
bis(2-Chloroethyl)ether	**ng/L**	<500	<100
bis(2-Chloroisopropyl)ether	**ng/L**	<500	<100
bis(2-Ethylhexyl) Phthalate	**ng/L**	5600	3800
Di-n-butyl Phthalate	**ng/L**	120	120
Di-n-octyl Phthalate	**ng/L**	<50	740
Diethyl Phthalate	**ng/L**	<50	460
Dimethyl Phthalate	**ng/L**	<50	<10
Hexachlorobenzene	**ng/L**	<25	<5
Hexachlorobutadiene	**ng/L**	<500	<100
Hexachlorocyclopentadiene	**ng/L**	<500	<100
Hexachloroethane	**ng/L**	<500	<100
Isophorone	**ng/L**	<500	<100
N-Nitrosodi-n-propylamine	**ng/L**	<500	<100
N-Nitrosodiphenylamine	**ng/L**	<500	<100
Nitrobenzene	**ng/L**	<500	<100
Organochlorine Pesticides and PCB Arochlors			
4,4'-DDD	**ng/L**	<0.01	<0.01
4,4'-DDE	**ng/L**	<0.01	<0.01
4,4'-DDT	**ng/L**	<0.01	<0.01
Aldrin	**ng/L**	<0.01	<0.01
Dieldrin	**ng/L**	<0.01	<0.01
Endrin	**ng/L**	<0.01	<0.01
Endrin Aldehyde	**ng/L**	<0.01	<0.01
Heptachlor	**ng/L**	<0.01	<0.01
Heptachlor Epoxide	**ng/L**	<0.01	<0.01
Hexachlorobenzene	**ng/L**	<25	<5
Hexachlorocyclopentadiene	**ng/L**	<500	<100
Toxaphene	**ng/L**	<1	<1
PCB-1016	**ng/L**	<0.1	<0.1
PCB-1221	**ng/L**	<0.1	<0.1
PCB-1232	**ng/L**	<0.1	<0.1
PCB-1242	**ng/L**	<0.1	<0.1
PCB-1248	**ng/L**	<0.1	<0.1
PCB-1254	**ng/L**	<0.1	<0.1
PCB-1260	**ng/L**	<0.1	<0.1
Polynuclear Aromatic Hydrocarbons			
Acenaphthene	**ng/L**	<25	<5
Acenaphthylene	**ng/L**	<25	<5
Anthracene	**ng/L**	<25	<5
Chrysene	**ng/L**	53	15
Fluoranthene	**ng/L**	110	27
Fluorene	**ng/L**	<25	<5
Indeno[1,2,3-c,d]pyrene	**ng/L**	210	57
Naphthalene	**ng/L**	<25	14
Phenanthrene	**ng/L**	42	200
Pyrene	**ng/L**	120	51

Table 3: Microbiology at SAR Mass Loadings Sites: 2012-13

Station	Date	Type	SpecCond	Field pH	WaterTemperature	DO	Total Coliform	Fecal Coliform	Enterococci	OilAndGrease
			uS/cm	SU	°C	mg/L	CFU/100 ml			mg/L
BARSED	7/25/12 10:45	D	2467	8.38	25.94	21.91				
BARSED	8/7/12 9:27	D	2514	8.08	24.77	NR				
BARSED	9/11/12 10:09	D	2232	8.24	25.47	12.87	>380	150	70	<5
BARSED	10/10/12 13:00	D	2078	8.5	25.66	21.66				
BARSED	11/26/12 10:52	D	2329	8.23	17.59	21.11	>7200	>1100	300	<5
BARSED	11/29/12 9:30	S	639	7.98	17.48	10.17	>240000	40000	43000	NR
BARSED	11/30/12 8:40	S	1060	7.73	18.54	7.64	34000	4100	5100	NR
BARSED	12/2/12 8:51	S	682	7.66	18.04	7.87	>102000	8400	9600	NR
BARSED	12/11/12 10:25	D	2648	8.06	15.38	13.86				
BARSED	1/23/13 10:44	D	2482	8.3	14.99	17.77				
BARSED	2/26/13 9:50	D	1697	8.27	17.76	12.5				
BARSED	3/19/13 10:22	D	1770	8.3	17.3	14.14	>4200	90	220	<5
BARSED	4/9/13 10:25	D	2367	8.2	19.33	20.55				
BARSED	5/15/13 11:28	D	2313	8.48	26.7	21.49				
BARSED	6/18/13 10:02	D	2010	8.29	21.06	15.93	>1370	220	90	NR
BARSED	6/18/13 10:02	S	2010	8.29	21.06	15.93	>2300	280	70	<5
BCC02	9/18/12 10:00	D	2246	7.92	23.86	8.42				
BCC02	5/28/13 9:32	D	1311	8.09	22.37	12.25	>1030	810	880	<5
CARB01	9/18/12 9:45	D	1498	8	24.17	14.78				
CARB01	2/20/13 11:08	D	384	8.41	12.58	12.32	66000	4300	7700	NR
CARB01	2/21/13 10:34	S	1085	8.71	17.28	19.42	>43000	2400	270	
CARB01	5/28/13 10:01	S	1667	8.48	25.15	15.64	>750	>680	270	<5
CARB01	5/28/13 10:01	S	1667	8.48	25.15	15.64	>1070	>680	180	<5
CCBA01	9/18/12 9:02	D	1268	8.43	21.83	15.3				
CCBA01	5/28/13 9:06	D	1357	8.71	23.39	17.73	>2100	>850	>40	<5
CICF25	7/25/12 10:15	D	1379	9.99	28.28	25.39				
CICF25	8/15/12 9:10	D	1108	9.19	24.83	16.56				
CICF25	9/11/12 9:41	D	1186	8.82	26.37	15.87	>7200	3900	2300	<5
CICF25	10/10/12 8:41	D	1220	8.8	19.9	14.86				
CICF25	11/26/12 9:21	D	818	9.92	15.93	34.85				
CICF25	11/29/12 8:56	D	450	8.07	17.3	10.71	>58000	13000	32000	NR
CICF25	11/30/12 9:30	S	464	8.1	18.19	10.33	33000	7000	5400	NR
CICF25	12/2/12 8:31	S	409	7.83	17.97	9.89	18000	6700	12900	NR
CICF25	12/11/12 9:55	D	597	9.97	17.28	21.55				
CICF25	1/23/13 10:41	D	780	10.17	16.49	21.78				
CICF25	2/26/13 9:23	D	892	9.63	16.22	19.33				
CICF25	3/19/13 10:07	D	1149	9.46	17.1	22.15				
CICF25	4/9/13 9:57	D	1335	9.17	21.92	18.51				
CICF25	5/15/13 11:55	D	3748	10.89	33.17	14.23				
CICF25	6/18/13 9:32	D	1277	9.47	20.87	17.85	>600	>140	690	<5
CMCG02	7/25/12 11:55	D	904	10.03	28.82	20.84				
CMCG02	8/7/12 11:13	D	866	9.15	26.41	10.62				
CMCG02	8/15/12 10:10	D	854	8.92	24.47	13.01				
CMCG02	9/11/12 9:31	D	725	8.39	23.69	10.11	>7100	5600	3800	<5
CMCG02	10/10/12 11:40	D	902	8.68	25.41	14.7				
CMCG02	10/11/12 11:51	S	538	8.27	22.65	11.45				
CMCG02	10/12/12 10:33	S	382	8.29	21.25	9.28	>2.4e+07	76000	28000	<5
CMCG02	11/26/12 11:12	D	731	9.61	20.21	39				
CMCG02	11/29/12 10:19	D	290	8.44	18.23	11.87	>210000	76000	48000	
CMCG02	11/30/12 8:39	S	304	8.18	17.89	10.78	150000	17000	28000	
CMCG02	12/2/12 9:30	S	649	9.05	17.93	12.93	>4800	870	570	
CMCG02	12/11/12 11:45	D	704	10.06	21.83	18.81				
CMCG02	1/23/13 12:15	D	518	9.39	15.03	21.18				
CMCG02	2/26/13 11:09	D	854	9.06	19.19	16.76				
CMCG02	3/13/13 10:55	D		8.9	17.3	18.14				
CMCG02	3/19/13 11:55	D	535	9.93	17.79	14.81				
CMCG02	4/9/13 11:55	D	917	8.59	22.07	12.86				
CMCG02	5/15/13 10:31	D	1598	9.64	21.02	17.03				
CMCG02	6/18/13 12:20	D	731	9.67	26.69	11.6	>32000	>2100	2800	<5

Table 3: Microbiology at SAR Mass Loadings Sites: 2012-13

Station	Date	Type	SpecCond	Field pH	WaterTemperature	DO	Total Coliform	Fecal Coliform	Enterococci	OilAndGrease
			uS/cm	SU	°C	mg/L	CFU/100 ml			mg/L
EGWC05	9/18/12 10:40	D	1538	8	25.56	15.71				
EGWC05	2/20/13 9:23	D	424	8.82	10.52	12.56	90000	6400	26000	
EGWC05	2/21/13 11:40	S	790	8.54	14.72	16.69	>68000	>860	230	
EGWC05	5/28/13 10:01	S	1959	8.09	24.71	10.95	>2800	810	460	<5
FCVA03	9/18/12 9:25	D	1313	8.06	23.69	14.06				
FCVA03	9/18/12 9:25	D	1313	8.06	23.69	14.06				
FCVA03	2/20/13 10:02	D	879	8.78	9.22	13.39	20000	3800	4100	NR
FCVA03	2/21/13 10:02	S	1163	8.52	14.15	19.94	>7700	760	210	
FCVA03	5/28/13 9:28	S	1252	8.97	24.62	20.85	>4500	>540	110	<5
SADF01	7/25/12 11:25	D	2343	8.38	25	30.48				
SADF01	8/7/12 10:51	D	2498	8.18	25.79	12.58				
SADF01	9/11/12 10:00	D	1843	8.04	24.37	13.3	>3400	280	140	<5
SADF01	10/10/12 10:30	D	2445	8.2	22.29	23.21				
SADF01	10/11/12 10:49	S	1340	8.07	20.36	7.49				
SADF01	10/12/12 10:07	S	1459	8.02	20.03	10.13	>2e+07	2000000	2700000	<5
SADF01	11/26/12 10:45	S	2479	8.19	16.68	43.49	>9400	>840	370	<5
SADF01	11/29/12 9:48	S	672	7.91	17.15	10.21	>330000	39000	57000	
SADF01	11/30/12 9:03	S	1257	7.67	17.74	8.03	280000	17000	15000	
SADF01	12/2/12 9:03	S	1952	7.81	17.53	9.23	89000	2100	1800	
SADF01	12/11/12 11:25	D	2426	8.05	18.02	16.42				
SADF01	1/23/13 11:50	D	2593	7.94	14.05	10.31				
SADF01	2/26/13 10:51	D	1375	8.52	18.72	12.2				
SADF01	3/19/13 11:02	D	2435	8.16	16.19	13.37				
SADF01	4/9/13 11:30	D	2424	8.14	19.84	20.7				
SADF01	5/15/13 10:15	D	2484	8.24	20.48	13.09				
SADF01	6/18/13 11:58	D	2381	8.39	23.89	20	>5500	230	9	<5
SDMF05	7/25/12 11:00	D	3094	8.24	25.51	13.33				
SDMF05	8/7/12 10:20	D	3011	8.16	25.79	12.58				
SDMF05	8/15/12 9:45	D	3104	8.13	26.63	6.83				
SDMF05	9/11/12 10:30	D	3713	8.06	27.18	7.63	>180	<9	<9	<5
SDMF05	10/10/12 9:30	D	2800	8.19	22.49	12.63				
SDMF05	11/26/12 9:36	D	2619	8.17	16.27	25.25	>360	60	30	<5
SDMF05	11/30/12 8:44	S	2753	8.42	21.12	17.44	>230000	25000	6800	
SDMF05	11/30/12 9:30	S	1329	7.79	17.44	8.46				
SDMF05	12/2/12 8:31	S	1531	7.9	17.75	9.72	>7600	790	210	
SDMF05	12/11/12 11:00	D	2492	8.24	15.85	14.23				
SDMF05	1/23/13 11:30	D	2063	8.22	11.54	14.9				
SDMF05	2/26/13 10:30	D	2390	8.31	14.29	10.98				
SDMF05	3/13/13 11:17	D	2206	8.38	18.55	14.42				
SDMF05	3/19/13 10:08	D	2440	8.26	17.75	9.94	>2300	9	40	<5
SDMF05	4/9/13 11:05	D	2808	8.14	18.01	13.02				
SDMF05	5/15/13 11:00	D	2016	8.26	21.87	10.35				
SDMF05	6/18/13 11:04	D	2677	8.38	22.49	15.95	>140	<9	<9	<5
WYLSED	7/25/12 10:36	D	2118	8.31	27.1	20.36				
WYLSED	8/7/12 9:48	D	2068	8.27	28.21	12.31				
WYLSED	8/15/12 9:21	D	2049	8.2	25.59	14.22				
WYLSED	9/11/12 10:52	D	2088	8.28	27.52	13.4	>680	170	160	<5
WYLSED	10/10/12 13:12	D	2100	8.39	28.75	18.08				
WYLSED	11/26/12 10:05	D	2100	8.21	16.23	22.42	>1040	130	170	<5
WYLSED	12/2/12 9:01	S	839	7.68	17.36	9.34	17000	2200	2500	
WYLSED	12/2/12 9:02	S	839	7.68	17.36	9.34				
WYLSED	12/4/12 10:31	S	780	7.94	18.31	12.87	>3600	470	940	
WYLSED	12/11/12 10:40	D	2054	7.98	16.66	14.84				
WYLSED	1/23/13 11:10	D	2108	8.13	16.4	12.77				
WYLSED	2/26/13 9:57	D	1993	8.15	17.37	11.2				
WYLSED	3/13/13 11:40	D	1871	8.28	23.79	15.77				
WYLSED	3/19/13 11:00	D	1246	8.27	17.76	10.21	2000	320	830	<5
WYLSED	4/9/13 10:39	D	2194	8.15	22.94	15.51				
WYLSED	5/15/13 11:15	D	2016	8.28	29.19	12.18				
WYLSED	6/18/13 10:37	D	2083	8.31	25.23	14.13	>4800	>320	310	<5

Table 4: Toxicity Testing on Dry Weather Samples from SAR Mass Loading Sites: 2012-13

					Hyallela Survival 96 Hour							Selenastrum Cell Density						
	Composite		Sample Number	Type	Survival in Control	Survival in 100% sample	Survival in 50% sample	NOEC	IC25	IC50	TUc	Cell Dt in Control	Cell Dt in 100% sample	Cell Dt in 50% sample	NOEC	IC25	IC50	TUc
Station	Begin	End			%	%	%	conc				Cells	Cells	Cells	conc			
BARSED	3/18/13 7:48	3/19/13 6:48	24	DT	100	100	95	100	>100	>100	1	1258750	1459000	1705500	100	>100	>100	1
BARSED	6/17/13 10:25	6/18/13 9:25	24	DT	90	100	90	100	>100	>100	1	1103750	1122250	1346750	100	>100	>100	1
BCC02	9/17/12 10:12	9/18/12 9:12	24	DT	100	100	100	100	>100	>100	1	1225500	1599500	1627250	100	>100	>100	1
BCC02	5/28/13 9:37	5/29/13 8:37	24	DT	100	100	100	100	>100	>100	1	1076250	1371750	1309000	100	>100	>100	1
CARB01	9/17/12 9:41	9/18/12 8:41	24	DT	100	100	100	100	>100	>100	1	1225500	1510250	1646250	100	>100	>100	1
CARB01	5/28/13 10:18	5/29/13 9:18	24	DT	100	100	100	100	>100	>100	1	1076250	1478250	1542250	100	>100	>100	1
CCBA01	9/17/12 8:49	9/18/12 7:49	24	DT	100	100	100	100	>100	>100	1	1225500	1804500	1831000	100	>100	>100	1
CCBA01	5/28/13 9:22	5/29/13 8:22	24	DT	100	100	100	100	>100	>100	1	1076250	1259750	1319500	100	>100	>100	1
CICF25	9/10/12 9:17	9/11/12 8:17	24	DT	100	100	100	100	>100	>100	1	1207750	2151000	1821750	100	>100	>100	1
CICF25	6/17/13 9:56	6/18/13 8:56	24	DT	90	10	80	50	58.9	75	2	1103750	2012500	2008250	100	>100	>100	1
CMCG02	9/10/12 9:18	9/11/12 8:18	24	DT	100	95	95	100	>100	>100	1	1207750	1902250	1876000	100	>100	>100	1
CMCG02	6/17/13 11:11	6/18/13 10:11	24	DT	100	5	75	50	50	67.9	2	1103750	2354750	2232250	100	>100	>100	1
EGWC05	9/17/12 10:40	9/18/12 9:40	24	DT	100	100	100	100	>100	>100	1	1225500	1893000	1897250	100	>100	>100	1
EGWC05	5/28/13 10:10	5/29/13 9:10	24	DT	100	100	100	100	>100	>100	1	1076250	1250500	1122000	100	>100	>100	1
FCVA03	9/17/12 9:11	9/18/12 8:11	24	DT	100	100	100	100	>100	>100	1	1225500	1629000	1705750	100	>100	>100	1
FCVA03	5/28/13 9:42	5/29/13 8:42	24	DT	100	100	100	100	>100	>100	1	1076250	1263500	1236500	100	>100	>100	1
SADF01	9/10/12 9:57	9/11/12 8:57	24	DT	95	100	100	100	>100	>100	1	1207750	1812250	1557250	100	>100	>100	1
SADF01	11/26/12 11:53	11/27/12 10:53	24	DT	100	100	95	100	>100	>100	1	1069000	1374000	1577750	100	>100	>100	1
SADF01	3/18/13 10:26	3/19/13 9:26	24	DT	100	100	100	100	>100	>100	1	1258750	1621500	1717500	100	>100	>100	1
SADF01	6/17/13 10:48	6/18/13 9:48	24	DT	100	100	95	100	>100	>100	1	1103750	1604000	1503000	100	>100	>100	1
SDMF05	9/10/12 10:39	9/11/12 9:39	24	DT	95	95	95	100	>100	>100	1	1207750	1545750	1853500	100	>100	>100	1
SDMF05	11/26/12 10:53	11/27/12 9:53	24	DT	100	100	100	100	>100	>100	1	1069000	1406500	1712750	100	>100	>100	1
SDMF05	3/18/13 10:26	3/19/13 9:26	24	DT	100	100	100	100	>100	>100	1	1258750	1454250	1716750	100	>100	>100	1
SDMF05	6/17/13 10:18	6/18/13 9:18	24	DT	100	95	100	100	>100	>100	1	1103750	1444000	1552250	100	>100	>100	1
WYLSED	9/10/12 10:24	9/11/12 9:24	24	DT	100	95	100	100	>100	>100	1	1207750	1781750	1896000	100	>100	>100	1
WYLSED	11/26/12 10:42	11/27/12 9:42	24	DT	100	100	100	100	>100	>100	1	1069000	1489750	1825250	100	>100	>100	1
WYLSED	3/18/13 9:11	3/19/13 8:11	24	DT	100	100	95	100	>100	>100	1	1258750	1623250	1654750	100	>100	>100	1
WYLSED	6/17/13 10:54	6/18/13 9:45	24	DT	90	100	100	100	>100	>100	1	1103750	1651250	1789500	100	>100	>100	1

Table 4: Toxicity Testing on Dry Weather Samples from SAR Mass Loading Sites: 2012-13

					Ceriodaphnia Survival and Reproduction																				
					Acute Survival							Chronic Survival							Reproduction						
	Composite		Sample Number	Type	Survival in Control	Survival in 100% sample	Survival in 50% sample	NOEC	IC25	IC50	TUa (computed)	Survival in Control	Survival in 100% sample	Survival in 50% sample	NOEC	IC25	IC50	TUc	Control - Reprod	Reprod in 100% sample	Reprod in 50% sample	NOEC	IC25	IC50	TUc
Station	Begin	End			%	%	%	conc				%	%	%	conc				young/indiv			conc			
BARSED	3/18/13 7:48	3/19/13 6:48	24	DT	100	90	90	100	>100	>100	0.59	100	90	90	100	>100	>100	1	31.1	20.5	29.5	50	84.306	>100	2
BARSED	6/17/13 10:25	6/18/13 9:25	24	DT	100	100	100	100	>100	>100	0	100	100	70	100	>100	>100	1	21	19	19.5	100	>100	>100	1
BCC02	9/17/12 10:12	9/18/12 9:12	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	18.9	28.3	30.7	100	>100	>100	1
BCC02	5/28/13 9:37	5/29/13 8:37	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	25.7	26.1	23.9	100	>100	>100	1
CARB01	9/17/12 9:41	9/18/12 8:41	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	15.5	26.9	19.9	100	>100	>100	1
CARB01	5/28/13 10:18	5/29/13 9:18	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	25.7	26	22.8	100	>100	>100	1
CCBA01	9/17/12 8:49	9/18/12 7:49	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	17	27.5	26.1	100	>100	>100	1
CCBA01	5/28/13 9:22	5/29/13 8:22	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	23.1	25.1	28	100	>100	>100	1
CICF25	9/10/12 9:17	9/11/12 8:17	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	21.1	28.7	30.1	100	>100	>100	1
CICF25	6/17/13 9:56	6/18/13 8:56	24	DT	100	100	100	100	>100	>100	0	100	60	100	50	81.25	>100	2	21	14	24.2	50	82.849	>100	2
CMCG02	9/10/12 9:18	9/11/12 8:18	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	21.1	20.2	23.7	100	>100	>100	1
CMCG02	6/17/13 11:11	6/18/13 10:11	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	21	22.8	22.5	100	>100	>100	1
EGWC05	9/17/12 10:40	9/18/12 9:40	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	18.9	29	25.9	100	>100	>100	1
EGWC05	5/28/13 10:10	5/29/13 9:10	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	25.7	24.7	27.1	100	>100	>100	1
FCVA03	9/17/12 9:11	9/18/12 8:11	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	18.9	31.3	36	100	>100	>100	1
FCVA03	5/28/13 9:42	5/29/13 8:42	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	22.2	27.8	31.3	100	>100	>100	1
SADF01	9/10/12 9:57	9/11/12 8:57	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	21.1	24.4	24.9	100	>100	>100	1
SADF01	11/26/12 11:53	11/27/12 10:53	24	DT	100	100	100	100	>100	>100	0	100	80	100	100	>100	>100	1	19.4	20	29.9	100	>100	>100	1
SADF01	3/18/13 10:26	3/19/13 9:26	24	DT	90	100	100	100	>100	>100	0	90	100	100	100	>100	>100	1	25.2	36.2	40.8	100	>100	>100	1
SADF01	6/17/13 10:48	6/18/13 9:48	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	24.5	22	26.9	100	>100	>100	1
SDMF05	9/10/12 10:39	9/11/12 9:39	24	DT	100	100	100	100	>100	>100	0	100	90	100	100	>100	>100	1	23.8	23	23.7	100	>100	>100	1
SDMF05	11/26/12 10:53	11/27/12 9:53	24	DT	100	100	100	100	>100	>100	0	100	70	100	100	91.667	>100	1	23.4	19	24.9	100	>100	>100	1
SDMF05	3/18/13 10:26	3/19/13 9:26	24	DT	90	100	100	100	>100	>100	0	90	100	100	100	>100	>100	1	26.4	21.5	26.8	100	>100	>100	1
SDMF05	6/17/13 10:18	6/18/13 9:18	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	21	10.2	21.1	50	74.251	98.5	2
WYLSED	9/10/12 10:24	9/11/12 9:24	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	22.4	19.8	21.9	50	>100	>100	2
WYLSED	11/26/12 10:42	11/27/12 9:42	24	DT	100	100	100	100	>100	>100	0	100	80	90	100	>100	>100	1	23.8	22.4	19	100	>100	>100	1
WYLSED	3/18/13 9:11	3/19/13 8:11	24	DT	90	100	100	100	>100	>100	0	90	100	100	100	>100	>100	1	26.4	34.7	34.2	100	>100	>100	1
WYLSED	6/17/13 10:54	6/18/13 9:45	24	DT	100	100	100	100	>100	>100	0	100	100	100	100	>100	>100	1	27.9	18.4	27	50	85.32	>100	2

Table 4: Toxicity Testing on Stormwater Samples from SAR Mass Emissions Sites: 2012-13

					Ceriodaphnia Survival and Reproduction																														
					Acute Survival											Chronic Survival											Reproduction									
	Composite		Sample Number	Type	Survival in Control	Survival in 100% sample	Survival in 50% sample	Survival in 25% sample	Survival in 12.5% sample	Survival in 6.25% sample	NOEC	IC25	IC50	TUa (computed)	Survival in Control	Survival in 100% sample	Survival in 50% sample	Survival in 25% sample	Survival in 12.5% sample	Survival in 6.25% sample	NOEC	IC25	IC50	TUc	Probability	Control - Reprod	Reprod in 100% sample	Reprod in 50% sample	Reprod in 25% sample	Reprod in 12.5% sample	Reprod in 6.25% sample	NOEC	IC25	IC50	TUc
Station	Begin	End			%	%	%	%	%	%	conc				%	%	%	%	%	%	conc					young/indiv						conc			
BARSED	11/29/12 9:04	11/30/12 7:04	12	ST	100	100	100				100	>100	>100	0	100	100	100				100	>100	>100	1	1	21.4	26.3	26.3				100	>100	>100	1
CARB01	2/20/13 1:04	2/20/13 23:04	12	ST	90	100	100	100	100	100	100	>100	>100	0	90	100	100	100	100	100	100	>100	>100	1	0.5	17.4	24.3	30.1	21.4	20.5	26.3	100	>100	>100	1
CICF25	11/29/12 6:25	11/30/12 4:25	12	ST	100	100	100				100	>100	>100	0	100	100	100				100	>100	>100	1	1	17.9	23.5	27.4				100	>100	>100	1
CMCG02	10/11/12 2:37	10/11/12 3:40	10	ST	100	100	NR	NR	NR	NR	100	>100	>100	0	100	100	NR	NR	NR	NR	100	>100	>100	1	1	23.6	33.5	NR	NR	NR	NR	100	>100	>100	1
CMCG02	11/29/12 5:22	11/30/12 3:22	12	ST	100	100	100				100	>100	>100	0	100	100	100				100	>100	>100	1	0.2	17.6	22	17.9				100	>100	>100	1
EGWC05	2/20/13 2:47	2/21/13 0:47	12	ST	90	100	100	100	100	100	100	>100	>100	0	90	100	100	100	100	100	100	>100	>100	1	0.5	17	20	19.2	25.8	25.9	24.1	100	>100	>100	1
FCVA03	2/20/13 0:34	2/20/13 22:34	12	ST	100	100	100	90	100	100	100	>100	>100	0	100	100	100	90	100	90	100	>100	>100	1	1	20.2	20.2	32.7	21.5	29.2	27.2	100	>100	>100	1
SADF01	10/11/12 10:18	10/11/12 11:21	10	ST	100	100	90	100	100	100	100	>100	>100	0	100	90	90	100	100	100	100	>100	>100	1	0.5	17.4	42.9	36.5	36.3	33.2	15	100	>100	>100	1
SADF01	11/29/12 6:53	11/30/12 4:53	12	ST	100	100	100				100	>100	>100	0	100	100	100				100	>100	>100	1	1	21.6	26.2	22.8				100	>100	>100	1
SDMF05	11/29/12 13:11	11/30/12 11:11	12	ST	100	100	90				100	>100	>100	0	100	100	90				100	>100	>100	1	1	21.4	30.9	23.6				100	>100	>100	1
WYLSED	12/1/12 3:28	12/2/12 1:28	12	ST	100	100	100				100	>100	>100	0	100	100	100				100	>100	>100	1	1	21.4	26.8	28				100	>100	>100	1

Table 4: Toxicity Testing on Stormwater Samples from SAR Mass Emissions Sites: 2012-13

					Mysidopsis Bahia Survival and Growth																											
					Acute Survival										Chronic Survival										Growth								
	Composite		Sample Number	Type	Survival in Control	Survival in 100% sample	Survival in 50% sample	Survival in 25% sample	Survival in 12.5% sample	Survival in 6.25% sample	NOEC	IC25	IC50	TUa (computed)	Survival in Control	Survival in 100%	Survival in 50%	Survival in 25%	Survival in 12.5%	Survival in 6.25%	NOEC	IC25	IC50	TUc	Growth in Control	Growth in 100% sample	Growth in 50% sample	Growth in 25% sample	Growth in 12.5% sample	Growth in 6.25% sample	NOEC	IC25	IC50	TUc
Station	Begin	End			%	%	%	%	%	%	conc				%	%	%	%	%	%	conc				mg/indiv						conc			
BARSED	11/29/12 9:04	11/30/12 7:04	12	ST	97.5	7.5	2.5				<50	13.176	26.351	>3.79	92.5	7.5	2.5				<50	13.214	26.429	>2	22.4	3.2	6.5				<50	17.618	35.236	>2
CARB01	2/20/13 1:04	2/20/13 23:04	12	ST	100	12.5	32.5	80	90	87.5	25	27.632	40.789	2.45	90	7.5	32.5	70	82.5	85	25	26.667	41.667	4	24.1	2.7	11.4	22	32.2	31.2	50	25.324	42.471	2
CICF25	11/29/12 6:25	11/30/12 4:25	12	ST	97.5	2.5	0				<50	12.662	25.325	>3.95	97.5	0	0				<50	12.5	25	>2	27.4	0	0				<50	12.5	25	>2
CMCG02	10/11/12 2:37	10/11/12 3:40	10	ST	87.5	0	NR	NR	NR	NR	NR	25	50	>2	85	0	NR	NR	NR	NR	<100	25	50	>1	30.1	0	NR	NR	NR	NR	<100	25	50	>1
CMCG02	11/29/12 5:22	11/30/12 3:22	12	ST	100	22.5	12.5				<50	15.152	30.303	>3.5	100	10	12.5				<50	14.286	28.571	>2	19.2	1.6	2.5				<50	14.39	28.78	>2
EGWC05	2/20/13 2:47	2/21/13 0:47	12	ST	97.5	0	27.5	55	95	100	12.5	19.043	30.114	3.32	82.5	0	25	55	92.5	97.5	50	20.422	32.986	2	18	0	12.63	28.18	29.53	23.58	50	37.721	50.854	2
FCVA03	2/20/13 0:34	2/20/13 22:34	12	ST	100	22.5	55	62.5	72.5	92.5	50	11.719	57.692	1.73	97.5	7.5	37.5	70	85	85	25	22.396	41.346	4	25.6	41.6	6.8	24.4	28.2	22.8	100	>100	>100	1
SADF01	10/11/12 10:18	10/11/12 11:21	10	ST	87.5	42.5	55	67.5	52.5	60	25	4.972	95	1.05	85	5	52.5	45	47.5	55	50	4.427	56.731	2	30.1	0.6	17.2	13	10.4	12.4	<6.25	2.792	5.584	>16
SADF01	11/29/12 6:53	11/30/12 4:53	12	ST	100	25	15				<50	15.625	31.25	>3.2	95	22.5	10				<50	15.079	30.159	>2	24.5	4	2.8				<50	14.549	29.097	>2
SDMF05	11/29/12 13:11	11/30/12 11:11	12	ST	97.5	37.5	0				<50	15.476	30.952	>3.23	92.5	20	0				<50	14.015	28.03	>2	22.4	4.2	0				<50	13.812	27.623	>2
WYLSED	12/1/12 3:28	12/2/12 1:28	12	ST	97.5	3.5	0				<50	15.234	30.469	>3.28	92.5	20	0				<50	14.015	28.03	>2	22.4	4	0				<50	13.71	27.42	>2

Table 4: Toxicity Testing on Stormwater Samples from SAR Mass Emissions Sites: 2012-13

					Chronic Sea Urchin Fertilization									
	Composite		Sample Number	Type	Fert inControl	Fert in 100% sample	Fert in 50% sample	Fert in 25% sample	Fert in 12.5% sample	Fert in 6.25% sample	NOEC	IC25	IC50	TUc
Station	Begin	End			%	%	%	%	%	%	conc			
BARSED	11/29/12 9:04	11/30/12 7:04	12	ST	100	100	100	100	100	100	100	>100	>100	1
CARB01	2/20/13 1:04	2/20/13 23:04	12	ST	100	100	100	100	100	100	100	>100	>100	1
CICF25	11/29/12 6:25	11/30/12 4:25	12	ST	100	100	100	100	100	100	100	>100	>100	1
CMCG02	10/11/12 2:37	10/11/12 3:40	10	ST	93.75	93.25	93.75	92	93.25	92.5	100	>100	>100	1
CMCG02	11/29/12 5:22	11/30/12 3:22	12	ST	100	100	100	100	100	100	100	>100	>100	1
EGWC05	2/20/13 2:47	2/21/13 0:47	12	ST	100	100	100	100	100	100	100	>100	>100	1
FCVA03	2/20/13 0:34	2/20/13 22:34	12	ST	100	97.5	98.8	97.5	100	100	100	>100	>100	1
SADF01	10/11/12 10:18	10/11/12 11:21	10	ST	93	91.25	92	93.5	93.5	93.75	100	>100	>100	1
SADF01	11/29/12 6:53	11/30/12 4:53	12	ST	100	100	100	100	100	100	100	>100	>100	1
SDMF05	11/29/12 13:11	11/30/12 11:11	12	ST	100	100	100	100	100	100	100	>100	>100	1
WYLSED	12/1/12 3:28	12/2/12 1:28	12	ST	100	100	100	100	100	100	100	>100	>100	1

Table 5: Toxicity of Bed Sediment at SAR Mass Loading Sites: 2012-13

				Hyallela 10 day Survival in Sediment				
				Survival in Control	Survival in sample	IC25	IC50	Probability
Station	Date	Matrix	Type	%	%	%	%	
BARSED	9/11/12 10:09	SED	DT	80	87.5	>100	>100	>0.05
SADF01	9/11/12 10:01	SED	DT	80	95	>100	>100	>0.05
SDMF05	9/11/12 10:30	SED	DT	80	92.5	>100	>100	>0.05
WYLSED	9/11/12 10:52	SED	DT	80	92.5	>100	>100	0.043
SDMF05	11/26/12 9:36	SED	DT	90	100	>100	>100	0.045
WYLSED	11/26/12 10:05	SED	DT	90	95	>100	>100	0.367
SADF01	11/26/12 10:45	SED	DT	90	85	>100	>100	0.580
BARSED	11/26/12 10:52	SED	DT	90	97.5	>100	>100	0.167
SDMF05	3/19/13 10:08	SED	DT	87.5	97.5	>100	>100	0.267
BARSED	3/19/13 10:22	SED	DT	87.5	42.5	48.611	97.222	0.006
WYLSED	3/19/13 11:00	SED	DT	87.5	90	>100	>100	0.855
SADF01	3/19/13 11:02	SED	DT	87.5	87.5	>100	>100	0.931
BARSED	6/18/13 10:02	SED	DT	92.5	100	>100	>100	>0.05
SADF01	6/18/13 11:58	SED	DT	92.5	100	>100	>100	>0.05
SDMF05	6/18/13 11:04	SED	DT	92.5	97.5	>100	>100	0.207
WYLSED	6/18/13 10:37	SED	DT	92.5	100	>100	>100	>0.05

Table 6: Benthic Sediment Chemistry at SAR Mass Loading Sites: 2012-13

	Site	BARSED			BCC02	SADF01		
	Date	9/11/12	11/26/12	3/19/13	5/28/13	9/11/12	11/26/12	3/19/13
	Time	10:09	10:52	10:22	11:45	10:01	10:45	11:02
pH		7.2	7.5	7.2	8	7.1	7.6	7.3
TOC-S	mg/kg	36300	24000	14000	861	41200	8980	5390
Chlorinated Herbicides								
2,4'-D	ug/Kg	<320	<320	<340	<340	<310	<290	<330
2,4,5 TP-Silvex	ug/Kg	<320	<320	<340	<340	<310	<290	<330
Metals								
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	1.2	1.7	1.6	<0.5	0.83	1.1	0.93
Be	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cd	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Cr	mg/kg	2.3	3.3	3.2	1.8	1.8	3.4	4
Cu	mg/kg	3.7	5.8	6.4	2.2	9.3	7.1	8.2
Fe	mg/kg	2600	3400	3500	2000	1800	3500	4400
Hg	ug/kg	<10	<10	<10	<10	<10	<10	<10
Ni	mg/kg	2.1	2.5	2.6	1.7	2.1	3	4.3
Pb	mg/kg	1.3	1.7	2	3.9	3	4.5	4.1
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	2.4	2.4	1	<0.5	0.79	0.51	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	14	23	29	19	35	52	58
Organochlorine Pesticides and PCB Arochlors								
4,4'-DDD	ug/Kg	<21	<16	<20	<19	<23	<10	<22
4,4'-DDE	ug/Kg	<21	<16	<20	<19	<23	<10	<22
4,4'-DDT	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Aldrin	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Alpha-BHC	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Beta-BHC	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Chlordane	ug/Kg	<420	<320	<390	<370	<460	<210	<430
Chlordane-alpha	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Chlordane-gamma	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Delta-BHC	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Dieldrin	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endosulfan I	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endosulfan II	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endosulfan Sulfate	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endrin	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endrin Aldehyde	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Endrin Ketone	ug/Kg				<19			
Gamma-BHC	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Heptachlor	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Heptachlor Epoxide	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Methoxychlor	ug/Kg	<21	<16	<20	<19	<23	<10	<22
Mirex	ug/Kg				<19			
Toxaphene	ug/Kg	<620	<470	<590	<560	<680	<310	<650
PCB-1016	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1221	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1232	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1242	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1248	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1254	ug/Kg	<420	<320	<390	<370	<460	<210	<430
PCB-1260	ug/Kg	<420	<320	<390	<370	<460	<210	<430
Pyrethroid Pesticides								
Allethrin	ug/Kg	<3.6	21	<4.5	<4.6	<4.3	9.4	<17
Bifenthrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	4.7	6.8	<17
Cyfluthrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17
Cypermethrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17
Deltamethrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17
L-Cyhalothrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17
Permethrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17
Prallethrin	ug/Kg	<3.6	<4.3	<4.5	<4.6	<4.3	<3.3	<17

Table 6: Benthic Sediment Chemistry at SAR Mass Loading Sites: 2012-13

	Site	BARSED			BCC02	SADF01		
	Date	9/11/12	11/26/12	3/19/13	5/28/13	9/11/12	11/26/12	3/19/13
	Time	10:09	10:52	10:22	11:45	10:01	10:45	11:02
PCB Congeners								
PCB018	ug/Kg	<11	<13	<14	NR	<13	<10	<51
PCB028	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB031	ug/Kg				<14			
PCB033	ug/Kg				<14			
PCB037	ug/Kg				<14			
PCB044	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB049	ug/Kg				<14			
PCB052	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB066	ug/Kg				<14			
PCB070	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB074	ug/Kg				<14			
PCB077	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB081	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB087	ug/Kg				<14			
PCB095	ug/Kg				<14			
PCB097	ug/Kg				<14			
PCB099	ug/Kg				<14			
PCB101	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB105	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB110	ug/Kg				<14			
PCB114	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB118	ug/Kg				<14			
PCB119	ug/Kg				<14			
PCB123	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB126	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB128	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB132	ug/Kg				<14			
PCB138	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB141	ug/Kg				<14			
PCB149	ug/Kg				<14			
PCB151	ug/Kg				<14			
PCB153	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB156	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB157	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB158	ug/Kg				<14			
PCB169	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB170	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB177	ug/Kg				<14			
PCB180	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB183	ug/Kg				<14			
PCB187	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB189	ug/Kg	<11	<13	<14	<14	<13	<10	<51
PCB194	ug/Kg				<14			
PCB200	ug/Kg				<14			
PCB201	ug/Kg				<14			
PCB206	ug/Kg	<11	<13	<14	<14	<13	<10	<51

Table 6: Benthic Sediment Chemistry at SAR Mass Loading Sites: 2012-13

	Site	SDMF05			WYLSED		
	Date	9/11/12	11/26/12	3/19/13	9/11/12	11/26/12	3/19/13
	Time	10:30	09:36	10:08	10:52	10:05	11:00
pH		8.1	8	8	7.6	7.8	7.2
TOC-S	mg/kg	901	3210	3640	719	527	687
Chlorinated Herbicides							
2,4'-D	ug/Kg	<320	<340	<320	<300	<320	<280
2,4,5 TP-Silvex	ug/Kg	<320	<340	<320	<300	<320	<280
Metals							
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	2.8	2.6	1.6	<0.5	<0.5	0.5
Be	mg/kg	0.47	<0.3	<0.3	<0.3	<0.3	<0.3
Cd	mg/kg	0.47	0.38	0.26	<0.2	<0.2	<0.2
Cr	mg/kg	18	8.9	6.1	<1	<1	<1
Cu	mg/kg	9.6	9	4.5	<0.5	0.58	0.55
Fe	mg/kg	15000	8000	5200	690	720	880
Hg	ug/kg	11	25	<10	<10	<10	<10
Ni	mg/kg	18	6.7	4	<1	<1	<1
Pb	mg/kg	4.6	4.3	2.5	<0.5	<0.5	<0.5
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	29	41	18	<5	<5	<5
Organochlorine Pesticides and P							
4,4'-DDD	ug/Kg	<25	<18	<19	<14	<10	<14
4,4'-DDE	ug/Kg	<25	<18	<19	<14	<10	<14
4,4'-DDT	ug/Kg	<25	<18	<19	<14	<10	<14
Aldrin	ug/Kg	<25	<18	<19	<14	<10	<14
Alpha-BHC	ug/Kg	<25	<18	<19	<14	<10	<14
Beta-BHC	ug/Kg	<25	<18	<19	<14	<10	<14
Chlordane	ug/Kg	<500	<360	<370	<280	<200	<280
Chlordane-alpha	ug/Kg	<25	<18	<19	<14	<10	<14
Chlordane-gamma	ug/Kg	<25	<18	<19	<14	<10	<14
Delta-BHC	ug/Kg	<25	<18	<19	<14	<10	<14
Dieldrin	ug/Kg	<25	<18	<19	<14	<10	<14
Endosulfan I	ug/Kg	<25	<18	<19	<14	<10	<14
Endosulfan II	ug/Kg	<25	<18	<19	<14	<10	<14
Endosulfan Sulfate	ug/Kg	<25	<18	<19	<14	<10	<14
Endrin	ug/Kg	<25	<18	<19	<14	<10	<14
Endrin Aldehyde	ug/Kg	<25	<18	<19	<14	<10	<14
Endrin Ketone	ug/Kg						
Gamma-BHC	ug/Kg	<25	<18	<19	<14	<10	<14
Heptachlor	ug/Kg	<25	<18	<19	<14	<10	<14
Heptachlor Epoxide	ug/Kg	<25	<18	<19	<14	<10	<14
Methoxychlor	ug/Kg	<25	<18	<19	<14	<10	<14
Mirex	ug/Kg						
Toxaphene	ug/Kg	<750	<550	<560	<420	<300	<430
PCB-1016	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1221	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1232	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1242	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1248	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1254	ug/Kg	<500	<360	<370	<280	<200	<280
PCB-1260	ug/Kg	<500	<360	<370	<280	<200	<280
Pyrethroid Pesticides							
Allethrin	ug/Kg	<4.1	12	<4.2	<2.7	6.2	<4.5
Bifenthrin	ug/Kg	<4.1	8.7	<4.2	<2.7	<2.4	<4.5
Cyfluthrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5
Cypermethrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5
Deltamethrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5
L-Cyhalothrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5
Permethrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5
Prallethrin	ug/Kg	<4.1	<4.8	<4.2	<2.7	<2.4	<4.5

Table 6: Benthic Sediment Chemistry at SAR Mass Loading Sites: 2012-13

	Site	SDMF05			WYLSED		
	Date	9/11/12	11/26/12	3/19/13	9/11/12	11/26/12	3/19/13
	Time	10:30	09:36	10:08	10:52	10:05	11:00
PCB Congeners							
PCB018	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB028	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB031	ug/Kg						
PCB033	ug/Kg						
PCB037	ug/Kg						
PCB044	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB049	ug/Kg						
PCB052	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB066	ug/Kg						
PCB070	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB074	ug/Kg						
PCB077	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB081	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB087	ug/Kg						
PCB095	ug/Kg						
PCB097	ug/Kg						
PCB099	ug/Kg						
PCB101	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB105	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB110	ug/Kg						
PCB114	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB118	ug/Kg						
PCB119	ug/Kg						
PCB123	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB126	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB128	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB132	ug/Kg						
PCB138	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB141	ug/Kg						
PCB149	ug/Kg						
PCB151	ug/Kg						
PCB153	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB156	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB157	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB158	ug/Kg						
PCB169	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB170	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB177	ug/Kg						
PCB180	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB183	ug/Kg						
PCB187	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB189	ug/Kg	<12	<14	<13	<8.2	<7.3	<13
PCB194	ug/Kg						
PCB200	ug/Kg						
PCB201	ug/Kg						
PCB206	ug/Kg	<12	<14	<13	<8.2	<7.3	<13

Table 7: Exceedances of CTR Acute Toxicity Criteria for Dissolved Metals at SAR Monitoring Sites

					Freshwater												Seawater											
			Sample #		Cd		Cu		Ni		Pb		Se		Zn		Cd		Cu		Ni		Pb		Se		Zn	
Site	Watershed	Program Element	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet	dry	wet
BARSED	San Diego Creek	Mass Loadings Monitoring	13	3	0	0	0	0	0	0	0	0	13	3	0	0												
BCC02	Anaheim Bay- Huntington Harbor	Mass Loadings Monitoring	2	0	0	0	0	0	0	0	0	0	0	0	0	0												
CARB01	San Gabriel River/ Coyote Creek	Mass Loadings Monitoring	3	2	0	0	0	0	0	0	0	0	0	0	0	0												
CCBA01	San Gabriel River/ Coyote Creek	Mass Loadings Monitoring	2	0	0	0	0	0	0	0	0	0	0	0	0	0												
CICF25	Newport Bay	Mass Loadings Monitoring	12	4	0	0	2	4	0	0	0	0	0	0	0	0												
CMCG02	Newport Bay	Mass Loadings Monitoring	11	5	0	0	1	5	0	0	0	0	0	0	0	3												
EGWC05	Anaheim Bay- Huntington Harbor	Mass Loadings Monitoring	2	2	0	0	0	0	0	0	0	0	0	0	0	0												
FCVA03	San Gabriel River/ Coyote Creek	Mass Loadings Monitoring	3	2	0	0	0	1	0	0	0	0	0	0	0	0												
SADF01	Newport Bay	Mass Loadings Monitoring	12	5	0	0	0	0	0	0	0	0	12	1	0	0												
SDMF05	Newport Bay	Mass Loadings Monitoring	11	3	0	0	0	0	0	0	0	0	11	3	0	0												
WYLSED	Newport Bay	Mass Loadings Monitoring	12	3	0	0	0	0	0	0	0	0	10	0	0	0												
SMC09118	Santa Ana River	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	1	0	0	0												
SMC13214	Santa Ana River	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	1	0	0	0												
SMC13187	Newport Bay	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	0	0	0	0												
SMC14211	Newport Bay	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	1	0	0	0												
SMC14099	Newport Bay	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	0	0	0	0												
SMC09091	Newport Bay	Bioassessment Monitoring	1	0	0	0	0	0	0	0	0	0	0	0	0	0												
BBOLR	Anaheim Bay- Huntington Harbor	Estuary/ Wetlands Monitoring	2	0													0	0	0	0	0	0	0	0	0	0	0	0
HUNBCC	Anaheim Bay- Huntington Harbor	Estuary/ Wetlands Monitoring	2	0													0	0	2	0	0	0	0	0	0	0	0	0
HUNCRB	Anaheim Bay- Huntington Harbor	Estuary/ Wetlands Monitoring	2	0													0	0	1	0	0	0	0	0	0	0	0	0
HUNWAR	Anaheim Bay- Huntington Harbor	Estuary/ Wetlands Monitoring	2	0													0	0	0	0	0	0	0	0	0	0	0	0
LNBHIR	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	0	0	0	0	0	0	0	0	0	0
LNBTUB	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	1	0	0	0	0	0	0	0	0	0
TBTMAR	San Ana River	Estuary/ Wetlands Monitoring	2	0													0	0	1	0	0	0	0	0	0	0	0	0
TGDC05	Anaheim Bay- Huntington Harbor	Estuary/ Wetlands Monitoring	2	0													0	0	1	0	0	0	0	0	0	0	0	0
UNBCHB	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	0	0	0	0	0	0	0	0	0	0
UNBJAM	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	0	0	0	0	0	0	0	0	0	0
UNBNSB	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	0	0	0	0	0	0	0	0	0	0
UNBSDC	Newport Bay	Estuary/ Wetlands Monitoring	4	0													0	0	1	0	0	0	0	0	0	0	0	0

Number of CTR Exceedances

Table 8: Bacteriological Quality in SAR Coastal Stormdrains and Surfzone Receiving Waters: 2012-13

			Upcoast			Stormdrain					Downcoast			
		Flowed to Ocean	TC	FC	ENT	TC	FC	ENT	PipeDischargeRate	Temperature	TC	FC	ENT	Temperature
Location	Date & Time		CFU/100 ml			CFU/100 ml			CFS	deg C	CFU/100 ml			deg C
HB1	7/2/12 10:53										<18	<18	10	15.7
HB1	7/10/12 10:55										<18	<18	4	13.6
HB1	7/17/12 10:55										55	<18	12	
HB1	7/24/12 10:45										<18	18	10	
HB1	7/31/12 10:45										36	55	10	
HB1	8/7/12 9:50										55	<18	14	
HB1	8/21/12 10:50										<18	<18	6	
HB1	8/28/12 9:50										<18	<18	2	
HB1	9/4/12 9:50										17	17	18	
HB1	9/18/12 11:25										<17	<17	14	
HB1	9/25/12 11:25										<17	<17	<2	
HB1	10/2/12 11:50										33	<17	<2	
HB1	10/9/12 11:50										<17	<17	2	
HB1	10/30/12 11:35										<17	<17	4	
HB1	11/6/12 11:35										67	17	64	
HB1	11/27/12 8:55										<17	<17	8	
HB1	12/11/12 10:20										580	**460**	**>400**	
HB1	12/26/12 9:43										<17	17	6	
HB1	1/15/13 10:20										<17	<17	6	
HB1	1/22/13 11:05										17	17	68	
HB1	1/29/13 11:05										<17	17	32	
HB1	2/5/13 10:15										17	<17	24	
HB1	2/13/13 10:40										<17	17	2	
HB1	3/12/13 10:35										17	<17	<2	
HB1	4/2/13 10:35										50	<17	20	
HB1	4/9/13 10:35										<17	<17	42	
HB1	5/7/13 11:45											**5500**	**124**	
HB1	5/21/13 10:28										<17	17	4	
HB1	5/28/13 10:25										<17	17	24	
HB1	6/4/13 10:25										<17	17	14	
HB1	6/25/13 9:35										17	17	<2	
HB2	7/2/12 10:53										<18	36	8	16.3
HB2	7/10/12 10:55										<18	<18	4	14.2
HB2	7/17/12 10:55										55	36	32	
HB2	7/24/12 10:45										18	<18	8	
HB2	7/31/12 10:45										<18	<18	<2	
HB2	8/7/12 9:50										360	180	6	
HB2	9/4/12 9:50										17	<17	20	
HB2	9/18/12 11:25										<17	17	8	
HB2	10/16/12 11:50										<17	<17	10	
HB2	11/6/12 11:35										<17	<17	18	
HB2	12/11/12 10:20										760	**460**	**382**	
HB2	1/15/13 10:20										33	<17	22	
HB2	1/22/13 11:05										<17	17	28	
HB2	1/29/13 11:05										17	<17	28	
HB2	2/5/13 10:15										<17	<17	24	
HB2	3/5/13 10:35										17	<17	2	
HB2	5/7/13 11:45												**118**	
HB2	5/21/13 10:28										17	33	14	
HB2	5/28/13 10:25										<17	<17	20	

Table 8: Bacteriological Quality in SAR Coastal Stormdrains and Surfzone Receiving Waters: 2012-13

			Upcoast			Stormdrain					Downcoast			
		Flowed to Ocean	TC	FC	ENT	TC	FC	ENT	PipeDischargeRate	Temperature	TC	FC	ENT	Temperature
Location	Date & Time		CFU/100 ml			CFU/100 ml			CFS	deg C	CFU/100 ml			deg C
HB3	7/2/12 10:53										<18	<18	8	16.6
HB3	7/10/12 10:55										<18	<18	<2	14.1
HB3	7/17/12 10:55										36	18	16	
HB3	7/24/12 10:45										<18	18	4	
HB3	7/31/12 10:45										<18	36	6	
HB3	8/7/12 9:50										<18	<18	12	
HB3	8/21/12 10:50										<18	<18	16	
HB3	9/4/12 9:50										<17	17	12	
HB3	9/18/12 11:25										17	<17	26	
HB3	12/11/12 10:20										200	100	82	
HB3	12/18/12 9:43										50	<17	6	
HB3	1/29/13 11:05										<17	<17	30	
HB3	2/5/13 10:15										17	50	34	
HB3	2/13/13 10:40										33	<17	24	
HB3	4/2/13 10:35										<17	<17	22	
HB3	4/9/13 10:35										33	<17	48	
HB3	5/7/13 11:45											**9700**	**116**	
HB3	5/21/13 10:28										17	<17	10	
HB3	6/4/13 10:25										<17	17	20	
HB3	6/11/13 10:45										50	17	26	
HB3	6/25/13 9:35										<17	33	2	
HB4	7/2/12 10:53										<18	18	4	16.7
HB4	7/10/12 10:55										<18	<18	22	16.3
HB4	7/17/12 10:55										18	18	18	
HB4	7/24/12 10:45										<18	36	4	
HB4	7/31/12 10:45										55	36	22	
HB4	8/7/12 9:50										<18	55	22	
HB4	8/21/12 10:50										18	55	4	
HB4	8/28/12 9:50										<18	<18	8	
HB4	9/18/12 11:25										17	<17	14	
HB4	10/23/12 11:35										17	<17	6	
HB4	11/13/12 11:35										67	50	**110**	
HB4	11/27/12 8:55										<17	<17	12	
HB4	12/11/12 10:20										440	270	**>400**	
HB4	12/18/12 9:43										33	<17	8	
HB4	12/26/12 9:43										50	33	20	
HB4	1/22/13 11:05										33	<17	84	
HB4	1/29/13 11:05										17	17	8	
HB4	3/12/13 10:35										17	<17	4	
HB4	3/26/13 10:50										<17	17	10	
HB4	5/7/13 11:45												**150**	
HB4	5/21/13 10:28										67	<17	8	
HB4	5/28/13 10:25											17	34	
HB4	6/4/13 10:25										17	<17	12	
HB4	6/11/13 10:45										120	17	20	
HB5	7/2/12 10:53										36	55	14	15.7
HB5	7/10/12 10:55										<18	18	2	15.1
HB5	7/17/12 10:55										18	<18	10	
HB5	7/24/12 10:45										<18	18	8	
HB5	7/31/12 10:45										18	91	16	
HB5	8/21/12 10:50										<18	18	<2	
HB5	9/4/12 9:50										17	<17	16	
HB5	9/18/12 11:25										33	<17	6	
HB5	9/25/12 11:25										17	17	2	
HB5	11/6/12 11:35										<17	17	<2	
HB5	11/13/12 11:35										50	17	**212**	
HB5	12/11/12 10:20										280	250	58	
HB5	12/26/12 9:43										17	17	10	
HB5	2/5/13 10:15										<17	33	28	
HB5	3/26/13 10:50										17	<17	22	
HB5	5/7/13 11:45											**7900**	76	
HB5	5/21/13 10:28										17	50	10	
HB5	5/28/13 10:25										100	17	18	
HB5	6/4/13 10:25										50	<17	28	
HB5	6/25/13 9:35										33	<17	14	

Table 8: Bacteriological Quality in SAR Coastal Stormdrains and Surfzone Receiving Waters: 2012-13

			Upcoast			Stormdrain					Downcoast			
		Flowed to Ocean	TC	FC	ENT	TC	FC	ENT	PipeDischargeRate	Temperature	TC	FC	ENT	Temperature
Location	Date & Time		CFU/100 ml			CFU/100 ml			CFS	deg C	CFU/100 ml			deg C
BGC	7/5/12 11:00	x	470	250	72	4000	760	124			680	**480**	**108**	
BGC	7/11/12 10:55	x	<18	<18	2	580	330	26	0.75	19.1	18	<18	<2	17.1
BGC	7/18/12 10:45	x	18	<18	10	2000	2000	152	1.5	20.1	360	220	**152**	
BGC	7/25/12 10:45	x	<18	<18	2	2800	91	142	0.75	19.1	250	55	82	
BGC	8/1/12 10:45	x	680	180	**>400**	5600	91	150	1	20	480	**420**	**326**	
BGC	8/8/12 9:50	x	36	<18	40	2200	4800	224	1.5	20.6	18	18	72	
BGC	8/22/12 10:50	x	270	36	8	>5,200	2400	>400	1	21.4	>130	18	18	
BGC	8/29/12 9:50	x	500	180	42	1400	160	>400	1	22.1	<18	<18	6	
BGC	9/5/12 9:50	x	100	<17	10	>800	300	146	0.75	18.5	>1,800	**1400**	**>400**	
BGC	9/12/12 11:25	x	>100	17	10		450	318	0.6	19.6	67	100	12	
BGC	9/26/12 11:25	x	<17	<17	8	4400	100	344	0.6	18.5	<17	50	2	
BGC	10/3/12 11:50	x	200	200	<2	2200	800	266	0.6	21.9	120	100	4	
BGC	10/10/12 11:50	x	100	83	44			296	1	17.7	<17	<17	8	
BGC	10/17/12 11:50	x	67	50	18	2500	640	196	0.75	16.8	<17	17	14	
BGC	10/24/12 11:35	x	33	17	2	2500	320	134	0.75	17	600	350	56	
BGC	10/31/12 11:35	x	100	83	12	1900	270	174	0.75	15.1	1600	**2300**	102	
BGC	11/7/12 11:35	x	<17	17	2	760	230	250	1	15.9	83	150	28	
BGC	11/14/12 11:35	x	120	100	24	>2,100	600	188	1.5	12.5	<17	<17	2	
BGC	11/21/12 8:55	x	17	17	2	800	92	168	0.75	14.5	100	<17	24	
BGC	11/28/12 8:55	x	50	120	16	1500	640	264	1.5	15	230	300	8	
BGC	12/12/12 10:20	x	400	350	100	2400	220	164	1	14.9	370	130	32	
BGC	12/19/12 9:43	x	<17	<17	<2	720	380	238	1	11.7	<17	<17	2	
BGC	12/27/12 9:43	x	50	<17	4	900	<15	198	0.5	12.7	83	83	30	
BGC	1/16/13 10:20	x	17	17	8	420	<15	36	1.5	8.6	50	67	8	
BGC	1/23/13 11:05	x	780	**620**	**332**	290	150	66	1	13.1	<17	<17	2	
BGC	1/30/13 10:15	x	33	<17	4	480	62	76	1	11.2	<17	<17	<2	
BGC	2/6/13 10:15	x	33	17	38	500	62	72	1.5	12.7	33	17	2	
BGC	2/14/13 10:40	x	50	<17	6	660	310	86	1.5	11.1	250	100	54	
BGC	3/6/13 10:35	x	<17	<17	<2	760	260	72	2	12.1	17	17	<2	
BGC	3/13/13 8:45	x	220	67	**106**	800	31	146	1	12.7	1400	**1200**	**>400**	
BGC	3/20/13 8:45	x	33	<17	<2	1400	150	114	1	12.7	130	17	6	
BGC	3/27/13 10:50	x	33	83	34	1600	640	268	1.5	13.6	33	33	34	
BGC	4/3/13 10:35	x	130	83	10	1700	77	126	1	14.2	130	17	4	
BGC	4/10/13 10:35	x	120	33	4	3500	480	226	1.5	14.4	100	17	<2	
BGC	5/1/13 11:45	x	<17	<17	2	2000	140	266	1	17.6	<17	17	2	
BGC	5/8/13 11:45	x	100	17	16	4700	400	368	1	18.2	83	33	6	
BGC	5/15/13 10:28	x	<17	<17	<2	3600	640	118	1	22	83	100	4	
BGC	5/22/13 10:28	x	<17	<17	10	5800	92	344	1	18.4	50	<17	4	
BGC	5/29/13 10:25	x	460	<17	18	>6,600	77	>400	1	19.4	83	<17	<2	
BGC	6/5/13 10:25	x	170	130	42	4900	200	>400	1	18.5	250	120	36	
BGC	6/12/13 9:35	x	250	33	20	>7,800	120	208	1.5	17.1	1300	33	42	
BGC	6/12/13 10:45	x	250	33	20		120	208	1.5	17.1	1300	33	42	
BGC	6/19/13 9:35	x	150	33	22	2000	15	>400	0.75	19.1	300	<17	20	
BGC	6/26/13 10:20	x	300	67	68	5200	200	160	1	19	2400	280	**>400**	
PPC	7/5/12 11:00										18	<18	20	
PPC	7/11/12 10:55										18	<18	<2	15.8
PPC	7/18/12 10:45										55	73	50	
PPC	7/25/12 10:45										18	18	68	
PPC	8/1/12 10:45	x	<18	<18	2	1100	640	158	0.5	19	<18	<18	12	
PPC	8/8/12 9:50										18	<18	2	
PPC	8/22/12 10:50										18	36	6	
PPC	9/5/12 9:50										5900	**7000**	**>400**	
PPC	9/26/12 11:25										33	17	8	
PPC	10/24/12 11:35										250	67	6	
PPC	10/31/12 11:35										67	17	4	
PPC	11/7/12 11:35										50	17	20	
PPC	11/14/12 11:35										<17	50	4	
PPC	11/21/12 8:55										120	130	<2	
PPC	12/12/12 10:20	x	<17	<17	26	67	<17	128	1	16.4	17	<17	22	
PPC	12/19/12 9:43										33	17	<2	
PPC	12/27/12 9:43	x		33	14	27000	290	348	1	14.2	83	17	12	
PPC	3/6/13 10:35	x	<17	<17	<2	8000	340	>400	0.5	14.2	<17	<17	<2	
PPC	4/3/13 10:35										50	<17	<2	

Table 8: Bacteriological Quality in SAR Coastal Stormdrains and Surfzone Receiving Waters: 2012-13

			Upcoast			Stormdrain					Downcoast			
		Flowed to Ocean	TC	FC	ENT	TC	FC	ENT	PipeDischargeRate	Temperature	TC	FC	ENT	Temperature
Location	Date & Time		CFU/100 ml			CFU/100 ml			CFS	deg C	CFU/100 ml			deg C
WFC	7/5/12 11:00	x	36	<18	36	1000	380	140	0.75	19.5	<18	<18	4	
WFC	7/11/12 10:55	x	130	18	20	270	220	22	1	18.7	<18	18	6	17.7
WFC	7/18/12 10:45	x	250	220	24	800	18	42	0.75	18.8	73	18	34	
WFC	7/25/12 10:45	x	<18	<18	<2	330	36	74	0.75	17.7	36	<18	2	
WFC	8/1/12 10:45	x	18	<18	54	>220	18	6	1.33	18.9	<18	18	4	
WFC	8/8/12 9:50	x	91	<18	12	200	110	16	1	19.7	<18	<18	6	
WFC	8/22/12 10:50	x	<18	18	4	>600	600	54	1	19.8	<18	18	10	
WFC	8/29/12 9:50	x	<18	<18	12	2200	200	24	0.75	18.7	<18	<18	<2	
WFC	9/5/12 9:50	x	17	17	<2	100	560	20	1.5	19.5	<17	<17	8	
WFC	9/12/12 11:25	x	>130	67	18	>300	120	66	1	19.2	33	17	18	
WFC	9/26/12 11:25	x	33	<17	2	1000	250	18	0.75	18.6	17	<17	2	
WFC	10/3/12 11:50	x	17	<17	6	130	150	8	1	22	<17	<17	2	
WFC	10/10/12 11:50	x	<17	<17	2	>700	760	22	1	18.1	17	<17	<2	
WFC	10/17/12 11:50	x	<17	<17	2	400	300	46	1	19.8	17	<17	<2	
WFC	10/24/12 11:35	x	120	<17	6	530	1100	76	0.75	18.7	50	33	2	
WFC	10/31/12 11:35	x	17	<17	8	1200	320	34	1	18	33	17	4	
WFC	11/7/12 11:35	x	<17	<17	6	>150	130	44	1	18.4	<17	<17	6	
WFC	11/14/12 11:35	x	<17	<17	2	>300	17	54	1	16.9	<17	<17	8	
WFC	11/21/12 8:55	x	<17	<17	<2	600	140	62	1	17.1	33	<17	<2	
WFC	11/28/12 8:55	x	17	<17	<2	930	200	28	1	16.4	<17	<17	<2	
WFC	12/12/12 10:20	x	67	17	48	520	31	22	1.5	15.5	33	<17	36	
WFC	12/19/12 9:43	x	50	<17	4	17	<17	2	1	13.3	2300	**460**	**164**	
WFC	12/27/12 9:43	x	100	33	<2	15	31	6	1	13.5	370	83	98	
WFC	1/16/13 10:20	x	<17	<17	<2	460	<15	<2	1	13.4	<17	<17	<2	
WFC	1/23/13 11:05	x	<17	17	2	230	31	22	1	14.6	33	<17	4	
WFC	1/30/13 10:15	x	17	17	22	480	<15	10	0.4	11.3	17	<17	<2	
WFC	2/6/13 10:15	x	<17	<17	<2	600	31	10	1	14.9	17	<17	<2	
WFC	2/14/13 10:40	x	50	17	<2	250	31	10	0.75	14.3	100	17	8	
WFC	3/6/13 10:35	x	17	<17	<2	680	280	8	0.75	14.7	<17	50	<2	
WFC	3/13/13 8:45	x	<17	<17	8	760	<15	12	1	13.4	33	<17	4	
WFC	3/20/13 8:45	x	<17	<17	2	930	15	282	1	13.4	<17	<17	2	
WFC	3/27/13 10:50	x	33	<17	6	400	290	6	1	15.9	33	<17	4	
WFC	4/3/13 10:35	x	67	<17	<2	<200	<15	8	1.5	16.6	17	<17	<2	
WFC	4/10/13 10:35	x	33	<17	6	780	15	8	1	14.3	<17	<17	4	
WFC	5/1/13 11:45	x	<17	<17	2	<40,000	46	18	1	19.8	<17	<17	<2	
WFC	5/8/13 11:45	x	<17	<17	<2	630	480	104	1	20.7	<17	<17	<2	
WFC	5/15/13 10:28	x	<17	<17	<2	>1,000	250	14	1	21	<17	<17	<2	
WFC	5/22/13 10:28	x	<17	<17	16	4500	<15	132	1	21.3	<17	<17	10	
WFC	5/29/13 10:25	x	33	<17	<2	600	15	94	1	18.2	<17	<17	4	
WFC	6/5/13 10:25	x	33	17	6	11000	<15	94	0.5	18.7	33	<17	24	
WFC	6/12/13 9:35	x	<17	<17	<2	>1,100	<15	26	1	17.8	33	<17	2	
WFC	6/19/13 9:35	x	<17	<17	2	>5,600	230	16	1	18.5	17	<17	2	
WFC	6/26/13 10:20	x	<17	<17	4	600	15	18	0.5	19.5	17	<17	8	
MDC	7/5/12 11:00										18	<18	<2	
MDC	7/11/12 10:55										<18	<18	<2	17.8
MDC	7/18/12 10:45										<18	<18	4	
MDC	10/17/12 11:50										130	50	68	
MDC	10/24/12 11:35	x	17	17	4	400	320	80	0.75	15.7	<17	17	<2	
MDC	10/31/12 11:35	x	83	50	24		720	48	0.75	15.7	<17	17	6	
MDC	11/21/12 8:55	x	<17	<17	<2		150	64	1	16.1	17	17	<2	
MDC	11/28/12 8:55	x	50	67	6		1500	14	1	15.4	33	<17	<2	
MDC	12/12/12 10:20	x	<17	<17	10	5000	1500	>400	1	15.6	150	100	**256**	
MDC	12/19/12 9:43	x	50	17	6	3100	400	>400	0.75	10.5	67	17	14	
MDC	12/27/12 9:43	x	17	17	8	6800	3500	>400	1.5	14	150	50	44	
MDC	1/16/13 10:20	x	17	<17	<2	620	<15	24	1	11.9	<17	<17	<2	
MDC	1/23/13 11:05	x	33	<17	2	4200	3100	56	1.5	13.7	<17	<17	<2	
MDC	1/30/13 10:15	x	<17	<17	<2	600	31	28	1	11.9	<17	<17	<2	
MDC	2/6/13 10:15	x	33	<17	2	5700	400	150	1	13.8	<17	<17	2	
MDC	2/14/13 10:40	x	<17	<17	<2	860	310	124	0.75	10.9	<17	<17	2	
MDC	3/6/13 10:35	x	130	<17	2	14600	5400	152	1	14.4	<17	<17	2	
MDC	3/13/13 8:45	x	130	33	6	1700	31	24	1	12.6	67	17	16	
MDC	3/20/13 8:45	x	<17	<17	2	3500	520	14	1	12.6	17	<17	<2	
MDC	3/27/13 10:50	x	<17	17	4	2000	1400	126	2	15.3	<17	<17	2	
MDC	4/3/13 10:35	x	17	<17	<2	2700	31	210	1	17.3	<17	<17	<2	
MDC	4/10/13 10:35	x	<17	<17	<2		150	108	1	13.5	<17	<17	<2	
MDC	5/8/13 11:45	x	33	67	2	20000	4600	>400	1	17.6	120	67	2	
MDC	5/15/13 10:28	x	<17	<17	4		5300	24	1	18.2	>500	<17	<2	
MDC	5/22/13 10:28	x	<17	<17	6		3500	>400	1	18.9	17	<17	<2	

Table 8: Bacteriological Quality in SAR Regional Channels: 2012-13

		TC	ENT	FC	Temp
Station	Date	CFU/100 ml			deg C
BCC02	7/12/12 9:42	>1600	99	350	24.2
BCC02	7/19/12 9:30	>520	50	280	25.4
BCC02	7/26/12 7:56	>310	90	200	20.7
BCC02	8/2/12 12:45	>60	30	300	28.6
BCC02	8/9/12 9:31	>250	150	240	26.8
BCC02	8/16/12 10:36	>20	200	160	24.2
BCC02	8/23/12 9:01	>40	3700	270	24.5
BCC02	8/30/12 10:11	>520	1050	430	26.5
BCC02	9/6/12 8:10	>900	810	>360	21.4
BCC02	9/13/12 9:22	>210	1130	760	24.1
BCC02	9/20/12 11:17	>720	140	1700	27.1
BCC02	9/27/12 11:00	>2200	230	940	26.7
BCC02	10/9/12 9:02	>700	240	80	20.4
BCC02	10/18/12 8:34	>10500	1600	4000	25.6
BCC02	10/25/12 10:25	>5900	200	2600	19.8
BCC02	11/1/12 11:05	32000	240	2800	19.8
BCC02	11/8/12 10:24	>6400	940	590	20.7
BCC02	11/13/12 8:29	>5500	380	570	8.6
BCC02	11/19/12 9:55	>5700	340	840	19.8
BCC02	11/29/12 13:56	>300000	44000	23000	18.6
BCC02	12/5/12 10:10	>24000	4700	>3500	19.2
BCC02	12/10/12 9:38	>7000	3900	2100	11.6
BCC02	12/17/12 11:50	>2800	1050	340	19.6
BCC02	12/26/12 11:55	>40000	5700	5900	18.7
BCC02	1/3/13 8:16	2500	2200	520	2.8
BCC02	1/10/13 11:11	>3000	370	250	19.6
BCC02	1/17/13 10:32	>1330	700	300	15.1
BCC02	1/24/13 12:07	>39000	9400	>4900	17.6
BCC02	1/31/13 11:30	>960	130	140	18.2
BCC02	2/7/13 10:49	>950	180	80	17.8
BCC02	2/14/13 8:30	2500	540	400	7.8
BCC02	2/21/13 8:10	>41000	1600	>1000	8.8
BCC02	2/28/13 11:12	>1010	50	110	20.1
BCC02	3/7/13 11:53	>3800	90	140	19.6
BCC02	3/14/13 11:39	>3100	40	240	22.5
BCC02	3/21/13 11:25	>800	220	90	19.1
BCC02	3/28/13 11:29	>720	<9	99	21.3
BCC02	4/4/13 11:57	>430	40	60	23.6
BCC02	4/11/13 12:08	>590	100	260	22.3
BCC02	4/18/13 12:23	>850	<9	360	23.9
BCC02	4/23/13 9:15	>380	60	250	18.9
BCC02	5/2/13 12:53	>370	60	290	28.2
BCC02	5/7/13 12:01	>80000	10900	29000	22.8
BCC02	5/16/13 12:09	>410	160	210	19.1
BCC02	5/23/13 11:50	>80	840	40	20.7
BCC02	5/28/13 11:46	>2000	1330	2000	21.1
BCC02	6/5/13 14:30	300	30	120	24.9
BCC02	6/13/13 11:51	>200	9	230	25.4
BCC02	6/18/13 11:45	>100	20	70	24.7
BCC02	6/27/13 11:55	>700	180	100	28.1

Table 8: Bacteriological Quality in SAR Regional Channels: 2012-13

Station	Date	TC	ENT	FC	Temp
		CFU/100 ml			deg C
CMCG02	7/12/12 8:32	>28000	4400	2700	21.5
CMCG02	7/19/12 10:48	380000	11400	20000	26.7
CMCG02	7/26/12 10:19	>36000	20000	3800	21.7
CMCG02	8/2/12 11:13	>12100	3500	>110	21.6
CMCG02	8/9/12 8:19	>440000	29000	7000	25
CMCG02	8/16/12 9:11	>80000	5500	>2000	23.4
CMCG02	8/23/12 10:26	>61000	6900	>2300	26.7
CMCG02	8/30/12 11:48	49000	10800	9400	30.1
CMCG02	9/6/12 9:40	>11900	5800	>700	25.3
CMCG02	9/13/12 8:00	260000	12400	10500	23.8
CMCG02	9/20/12 9:51	>7300	800	2200	19.1
CMCG02	9/27/12 12:20	>20000	2600	2200	26.2
CMCG02	10/9/12 10:21	>5100	3100	>580	22.9
CMCG02	10/18/12 9:37	>28000	3800	6000	24.8
CMCG02	10/25/12 8:45	>11300	4400	4300	17.6
CMCG02	11/1/12 12:23	>7200	1800	2300	20.6
CMCG02	11/8/12 12:33	>310000	32000	21000	21
CMCG02	11/13/12 10:00	>7500	1600	2100	15
CMCG02	11/19/12 11:42	>72000	1700	860	25.2
CMCG02	11/29/12 12:36	>350000	37000	22000	21
CMCG02	12/5/12 11:30	>23000	8400	2900	NR
CMCG02	12/10/12 11:10	>1200	390	40	21.2
CMCG02	12/17/12 10:40	>38000	21000	2600	18.2
CMCG02	12/26/12 9:57	>46000	15000	6900	14.2
CMCG02	1/3/13 6:57	>4100	560	590	4.7
CMCG02	1/10/13 9:24	>680000	20000	4200	14.7
CMCG02	1/17/13 9:22	>2000	760	290	13.2
CMCG02	1/24/13 10:27	>39000	8300	4900	17.2
CMCG02	1/31/13 10:00	>22000	1550	940	14.6
CMCG02	2/7/13 9:32	>2900	1110	460	15.6
CMCG02	2/14/13 10:35	2800	2600	240	18.2
CMCG02	2/21/13 9:22	>27000	3600	1240	9.6
CMCG02	2/28/13 9:46	>2500	1130	640	19.2
CMCG02	3/7/13 10:34	>4500	2000	490	10.9
CMCG02	3/14/13 9:40	>23000	4700	6000	19.2
CMCG02	3/21/13 9:33	>34000	22000	3400	16.6
CMCG02	3/28/13 10:06	>51000	12400	8400	18
CMCG02	4/4/13 10:46	>60000	10000	8200	22.2
CMCG02	4/11/13 11:00	>5000	5200	790	19.9
CMCG02	4/18/13 11:10	>6500	3800	4000	19.9
CMCG02	4/23/13 10:24	>340	9600	>570	20.1
CMCG02	5/2/13 11:20	>5400	3700	>3300	25.9
CMCG02	5/7/13 10:56	330000	9100	172000	21.6
CMCG02	5/16/13 11:00	>69000	6800	4300	22.9
CMCG02	5/23/13 10:38	>22000	7000	6100	20.8
CMCG02	5/28/13 10:40	>8400	4100	>2600	23.5
CMCG02	6/5/13 13:10	11400	1700	100	29.9
CMCG02	6/13/13 10:44	>340000	>6000	>9000	22.9
CMCG02	6/18/13 10:15	>60000	25000	2000	21
CMCG02	6/27/13 10:31	>46000	3900	>3600	24.3

Table 8: Bacteriological Quality in SAR Regional Channels: 2012-13

Station	Date	TC	ENT	FC	Temp
		CFU/100 ml			deg C
EGWC05	7/12/12 9:22	>710	230	200	23.6
EGWC05	7/19/12 10:00	>6200	420	480	29.1
EGWC05	7/26/12 8:20	>340	410	190	24.6
EGWC05	8/2/12 12:16	>3400	840	500	28.9
EGWC05	8/9/12 9:09	>4200	580	400	27
EGWC05	8/16/12 9:59	>1600	2230	600	23.5
EGWC05	8/23/12 9:19	>5000	1260	460	26.9
EGWC05	8/30/12 10:28	4200	1060	3000	28.2
EGWC05	9/6/12 8:45	>5200	2600	2200	24.5
EGWC05	9/13/12 9:02	4900	2600	1100	23.9
EGWC05	9/20/12 10:55	>3300	1800	2300	28.1
EGWC05	9/27/12 11:26	>2100	270	280	24.1
EGWC05	10/9/12 9:35	>7600	330	760	23.4
EGWC05	10/18/12 8:55	>9100	680	850	25.6
EGWC05	10/25/12 10:04	>4500	260	800	19.5
EGWC05	11/1/12 11:50	>4800	170	280	19.6
EGWC05	11/8/12 10:42	>107000	6400	3100	21.7
EGWC05	11/13/12 9:08	>6800	840	570	9.5
EGWC05	11/19/12 10:15	31000	720	1540	17.7
EGWC05	11/29/12 13:31	>370000	49000	>33000	20.9
EGWC05	12/5/12 10:38	>11200	2700	>420	19
EGWC05	12/10/12 10:17	>27000	2800	>10000	15.4
EGWC05	12/17/12 11:29	>101000	88000	9200	18.9
EGWC05	12/26/12 11:00	>66000	8000	4300	18.6
EGWC05	1/3/13 7:45	20000	2100	2800	4.3
EGWC05	1/10/13 10:26	>5000	400	290	16.6
EGWC05	1/17/13 10:12	>650	90	180	12.6
EGWC05	1/24/13 11:26	>4700	>10900	>4700	17.1
EGWC05	1/31/13 11:08	5000	400	390	19.7
EGWC05	2/7/13 10:22	>4100	250	380	15.9
EGWC05	2/14/13 8:10	4300	500	330	10.8
EGWC05	2/21/13 8:40	>132000	940	>1050	8.8
EGWC05	2/28/13 10:44	>1000	40	60	15.6
EGWC05	3/7/13 11:31	>2600	50	90	18.5
EGWC05	3/14/13 10:46	>3800	210	190	19.7
EGWC05	3/21/13 10:47	>1000	130	200	19.9
EGWC05	3/28/13 11:08	>1000	130	260	23.6
EGWC05	4/4/13 11:22	>2200	30	280	24.6
EGWC05	4/11/13 11:44	>2000	9	60	27.1
EGWC05	4/18/13 11:58	>48000	50	230	24.4
EGWC05	4/23/13 9:37	>62000	240	5900	18.2
EGWC05	5/2/13 12:24	>400	90	140	26.9
EGWC05	5/7/13 11:37	>2.1e+006	10000	500000	20
EGWC05	5/16/13 11:35	>5000	1200	2000	24
EGWC05	5/23/13 11:28	>3100	1050	950	24.7
EGWC05	5/28/13 11:16	>2600	410	660	24.7
EGWC05	6/5/13 14:00	1630	140	99	29.1
EGWC05	6/13/13 11:30	>630	80	99	26.1
EGWC05	6/18/13 11:22	>740	140	160	26.1
EGWC05	6/27/13 11:36	>330	30	60	28.1

Table 8: Bacteriological Quality in SAR Regional Channels: 2012-13

Station	Date	TC	ENT	FC	Temp
		CFU/100 ml			deg C
SUNC07	7/12/12 9:33	>3400	3500	450	24.3
SUNC07	7/19/12 9:41	45000	10000	6400	25.8
SUNC07	7/26/12 8:04	>3100	960	1000	24.3
SUNC07	8/2/12 12:35	>80	20	40	24.6
SUNC07	8/9/12 9:21	>9700	1000	760	26.7
SUNC07	8/16/12 10:25	>120	<9	9	23.3
SUNC07	8/23/12 9:09	>11000	6600	2600	25.8
SUNC07	8/30/12 10:18	>360	140	220	26.1
SUNC07	9/6/12 8:20	>6000	4000	>3200	22.9
SUNC07	9/13/12 9:13	>460	280	360	23.2
SUNC07	9/20/12 11:08	>260	440	280	24.7
SUNC07	9/27/12 11:08	>260	<9	170	24.2
SUNC07	10/9/12 9:13	>3400	3400	1130	20.2
SUNC07	10/18/12 8:44	4200	4100	1140	25.4
SUNC07	10/25/12 10:16	>9200	7300	7100	18.2
SUNC07	11/1/12 11:13	70	140	100	21.1
SUNC07	11/8/12 10:32	>97000	101000	34000	20.7
SUNC07	11/13/12 8:42	90	140	100	15.3
SUNC07	11/19/12 10:02	24000	9600	8600	18.6
SUNC07	11/29/12 13:48	>61000	33000	27000	20.8
SUNC07	12/5/12 10:19	>72000	4800	>6000	19.1
SUNC07	12/10/12 9:53	>7800	1000	3100	14
SUNC07	12/17/12 11:43	370	260	160	17.9
SUNC07	12/26/12 11:47	>24000	68000	3500	15.5
SUNC07	1/3/13 8:06	>14200	32000	5900	8.4
SUNC07	1/10/13 11:00	>3300	3100	410	16.6
SUNC07	1/17/13 10:24	22000	9900	2700	15.5
SUNC07	1/24/13 11:51	>28000	22000	4100	18.1
SUNC07	1/31/13 11:21	20000	1830	2900	17
SUNC07	2/7/13 10:38	>3200	2100	130	18.2
SUNC07	2/14/13 8:25	>115000	32000	13200	12.4
SUNC07	2/21/13 8:23	>4000	4600	>1000	13.3
SUNC07	2/28/13 11:02	3000	4800	910	17.8
SUNC07	3/7/13 11:43	2000	2800	320	17.8
SUNC07	3/14/13 11:28	58000	5200	590	19
SUNC07	3/21/13 11:12	>17000	7900	1600	15.7
SUNC07	3/28/13 11:19	>710	720	70	19.7
SUNC07	4/4/13 11:46	1550000	4600	>3900	21.6
SUNC07	4/11/13 11:55	290	9	60	23.2
SUNC07	4/18/13 12:12	>760000	3400	51000	21.7
SUNC07	4/23/13 9:25	>1070	790	>270	15.8
SUNC07	5/2/13 12:46	>2400	290	>190	27.9
SUNC07	5/7/13 11:54	>48000	22000	25000	23.3
SUNC07	5/16/13 11:56	>100	120	320	26.6
SUNC07	5/23/13 11:39	>2700	5800	2500	23.4
SUNC07	5/28/13 11:31	>4700	>2400	1000	23.6
SUNC07	6/5/13 14:20	78000	3200	1400	25.9
SUNC07	6/13/13 11:41	>1130	270	50	23.9
SUNC07	6/18/13 11:36	>5100	3300	>2700	23.6
SUNC07	6/27/13 11:45	>37000	900	330	26.9

Table 8: Bacteriological Quality in SAR Regional Channels: 2012-13

Station	Date	TC	ENT	FC	Temp
		CFU/100 ml			deg C
TBOD02	7/12/12 9:02	140	<9	80	19.6
TBOD02	7/19/12 10:28	20	<9	<9	18.6
TBOD02	7/26/12 9:01	70	<9	50	21.1
TBOD02	8/2/12 11:48	880	<9	40	21.4
TBOD02	8/9/12 8:42	40	20	40	26.5
TBOD02	8/16/12 9:34	<9	9	40	20
TBOD02	8/23/12 9:59	20	20	9	26
TBOD02	8/30/12 11:23	20	<9	30	24.9
TBOD02	9/6/12 9:10	9	9	<9	18.4
TBOD02	9/13/12 8:28	100	40	20	22.1
TBOD02	9/20/12 10:33	30	9	20	21.4
TBOD02	9/27/12 11:57	<9	<9	<9	22.8
TBOD02	10/9/12 9:55	<9	<9	40	23.7
TBOD02	10/18/12 9:16	9	<9	20	22.8
TBOD02	10/25/12 9:28	90	20	50	20.5
TBOD02	11/1/12 11:50	20	<9	20	20.6
TBOD02	11/8/12 11:52	40	<9	9	20.9
TBOD02	11/13/12 9:32	130	20	40	14.5
TBOD02	11/19/12 10:45	210	9	<9	20.9
TBOD02	11/29/12 12:57	170	20	40	20.7
TBOD02	12/5/12 11:15	140	<9	80	19.9
TBOD02	12/10/12 10:47	220	40	99	15.1
TBOD02	12/17/12 11:13	30	<9	<9	19.2
TBOD02	12/26/12 10:17	>250	40	110	16
TBOD02	1/3/13 7:19	20	<9	20	11.7
TBOD02	1/10/13 9:37	80	40	30	17.4
TBOD02	1/17/13 9:49	20	<9	<9	15.3
TBOD02	1/24/13 10:46	>2200	940	490	18.1
TBOD02	1/31/13 10:24	9	<9	<9	15.8
TBOD02	2/7/13 9:57	140	<9	50	17.9
TBOD02	2/14/13 9:50	160	9	9	14
TBOD02	2/21/13 9:05	50	20	50	11.5
TBOD02	2/28/13 10:12	20	9	9	15.6
TBOD02	3/7/13 10:56	30	<9	<9	19.4
TBOD02	3/14/13 10:05	9	<9	<9	17.4
TBOD02	3/21/13 10:08	9	<9	<9	19.6
TBOD02	3/28/13 10:31	<9	<9	<9	17
TBOD02	4/4/13 11:01	20	<9	<9	16.8
TBOD02	4/11/13 11:18	<9	<9	<9	15.9
TBOD02	4/18/13 11:23	<9	<9	30	20.9
TBOD02	4/23/13 9:35	>9	<9	<9	14.6
TBOD02	5/2/13 11:34	<9	<9	9	21.6
TBOD02	5/7/13 10:56	51000	<9	3700	20
TBOD02	5/16/13 11:15	90	20	<9	23
TBOD02	5/23/13 11:02	20	<9	<9	22.1
TBOD02	5/28/13 10:54	>60	<9	40	23.6
TBOD02	6/5/13 13:30	9	9	<9	23.6
TBOD02	6/13/13 10:58	<9	<9	<9	21.9
TBOD02	6/18/13 10:32	9	<9	<9	22.4
TBOD02	6/27/13 10:53	9	<9	9	NR

Table 9: Pathogen Monitoring in the SAR

Summary of Exceedances for Each Monitoring Condition

Entire 12 Month Period (Jul 1, 2012-Jun 30, 2013)							
Region	Sample Type	Site Visits	Samples	Ent	FC	TC	Total
Surfzone	All Samples	245	356	21	13	6	40
	Stormdrain Flowing to Ocean	111	222	11	7	5	23
Channels	All Samples	351	351	223	155	170	548

AB411 Season (April 1-October 31)							
Region	Sample Type	Site Visits	Samples	Ent	FC	TC	Total
Surfzone	All Samples	155	214	11	8	4	23
	Stormdrain Flowing to Ocean	62	124	6	4	3	13
Channels	All Samples	199	199	116	81	88	285

Regional Channels	Site ID
Bolsa Chica Channel	BCC02
East Costa Mesa Channel	CMCG02
East Garden Grove Wintersburg Channel	EGWC05
Sunset Channel	SUNC07
Talbert Channel	TBOD02
Santa Ana Delhi Channel	SADF01
San Diego Creek Channel at Campus Drive	SDMF05

Surfzone sites near outlets of coastal stormdrains or creeks	Site ID
Huntington City Beach	HB1
Huntington City Beach	HB2
Huntington City Beach	HB3
Huntington City Beach	HB4
Huntington City Beach	HB5
Buck Gully Creek	BGC
Muddy Creek	MDC
Pelican Point Creek	PPC
Waterfall Creek	WFC

Table 9: Pathogen Monitoring in the SAR

Exceedance Rate in SAR Regional Channels and the Surfzone
near Outlets of Coastal Drains and Creeks

Entire Year				AB411 Season			
Station	# Days	# Samples	Avg Hits	Station	# Days	# Samples	Avg Hits
Regional Channels							
CMCG02	50	50	94.7%	CMCG02	28	28	96.4%
SUNC07	50	50	74.7%	SUNC07	28	28	67.9%
BCC02	50	50	48.7%	BCC02	28	28	35.7%
EGWC05	50	50	62.0%	EGWC05	28	28	63.1%
TBOD02	50	50	3.3%	TBOD02	28	28	2.4%
SADF01	50	50	57.3%	SADF01	29	29	57.5%
SDMF05	51	51	24.2%	SDMF05	30	30	13.3%
Surfzone near outlets of coastal stormdrains or creeks							
HB1	31	31	4.4%	HB1	21	21	3.2%
HB2	19	19	5.5%	HB2	12	12	2.9%
HB3	21	21	3.2%	HB3	16	16	4.3%
HB4	24	24	4.4%	HB4	15	15	2.4%
HB5	20	20	3.4%	HB5	14	14	2.4%
BGC	43	86	7.4%	BGC	27	54	8.0%
MDC	25	46	0.7%	MDC	11	18	0.0%
PPC	19	23	4.4%	PPC	12	13	7.7%
WFC	43	86	1.2%	WFC	27	54	0.0%

Exceedance Rate in the Surfzone near Outlets
of Coastal Drains and Creeks when the Stormdrains Flow to the Ocean

Entire Year				AB411 Season			
Station	# Days	# Samples	Avg Hits	Station	# Days	# Samples	Avg Hits
BGC	43	86	7.4%	BGC	27	54	8.0%
MDC	21	42	0.8%	MDC	7	14	0.0%
PPC	4	8	0.0%	PPC	1	2	0.0%
WFC	43	86	1.2%	WFC	27	54	0.0%

Avg Hits = ratio of the sum of exceedances for each indicator to the sum of total analyses.

Table 10: Aqueous Chemistry at SAR Bioassessment Sites: 2012-13

			Field Measurements				General Minerals																		
			Specific Conductance	pH	WaterTemperature	DO	Specific Conductance	pH	Turbidity	B	Ca	Chloride	Carbon Dioxide as CO_2	Carbonate as $CaCO_3$	Fluoride	Hardness	Bicarbonate as HCO_3	Hydroxide	K	Mg	Na	Nitrate as NO_3	Silica as SiO_2	Sulfate as SO_4	TDS
Station	Date	Type	uS/cm	SU	deg C	mg/L	uS	SU	NTU	ng/L	mg/L														
SMC09118	5/22/13 10:02	DT	2788	8.37	23.76	13.08	3000	8.41	0.97	0.68	222	230	220	13	0.61	1050	260	<2	13	122	250	2.1	29	950	2000
SMC09118	5/22/13 10:02	DF																							
SMC13214	5/22/13 7:30	DT	2946	8.08	20.46	5.73	3300	7.99	0.53	0.74	214	260	98.6	<2	0.55	1080	130	<2	16	133	290	<0.5	6.4	1100	2200
SMC13214	5/22/13 7:30	DF																							
SMC13187	6/4/13 8:45	DT	2031	8.24	20.87	9.7	2100	8.16	0.72	0.36	103	260	169	<2	0.38	434	230	<2	5.4	42.9	260	45	34	370	1300
SMC13187	6/4/13 8:45	DF																							
SMC14211	6/4/13 10:35	DT	2315	8.23	23.42	13.17	2600	8.23	0.37	0.64	160	300	274	<2	0.4	649	380	<2	5.2	60.5	330	54	50	540	1800
SMC14211	6/4/13 10:35	DF																							
SMC14099	6/13/13 12:10	DT	2014	7.54	25.28	15.23	2000	7.97	1.9	0.25	85.2	360	179	<2	0.74	399	240	<2	5.1	45.1	230	<0.5	19	220	1100
SMC14099	6/13/13 12:10	DF																							
SMC09091	6/27/13 7:52	DT	1337	7.52	17.55	2.98	1500	8.09	2.3	0.38	68.5	180	276	<2	0.69	384	370	<2	11	51.7	190	4.6	32	220	920
SMC09091	6/27/13 7:52	DF																							

Table 10: Aqueous Chemistry at SAR Bioassessment Sites: 2012-13

			Nutrients								Pyrethroid Pesticides									Trace Metals										
			Nitrite as NO_2	Nitrate+Nitrite as NO_3	Ammonia as N	TKN	TotalPhosphorus as PO4	OrthoPhosphate as P	TSS	VSS	Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Esfenvalerate	L-Cyhalothrin	Permethrin	Prallethrin	Ag	As	Cd	Cr	Cu	Fe	Ni	Pb	Se	Zn	Hardness
Station	Date	Type	ug/L		mg/L						ng/L									ug/L										mg/L
SMC09118	5/22/13 10:02	DT	<300	2.1	<0.1	0.73	0.17	0.2	<5	<5	<2	6	<2	<2	<2	NR	2.3	5.6	<2	<0.5	2	1.7	0.6	4.8	56	21	<0.5	42	7.5	600
SMC09118	5/22/13 10:02	DF																		<0.5	2	0.86	<0.5	4	<20	20	<0.5	42	4.7	
SMC13214	5/22/13 7:30	DT	<300	<0.5	<0.1	0.92	0.12	0.015	5	<5	<2	4.8	<2	<2	<2	NR	2.9	<5	<2	<0.5	2	0.64	<0.5	6	75	24	<0.5	26	9.4	630
SMC13214	5/22/13 7:30	DF																		<0.5	2	<0.5	<0.5	3.8	<20	23	<0.5	26	6.5	
SMC13187	6/4/13 8:45	DT	970	45	<0.1	<0.1	<0.03	0.11	<5	<5	<2	<2	<2	<2	<2	<2	<2	<5	<2	<0.5	3.1	<0.5	<0.5	3.9	22	2.6	<0.5	2.9	3.9	470
SMC13187	6/4/13 8:45	DF																		<0.5	3	<0.5	<0.5	4.3	21	2.7	<0.5	2.8	10	
SMC14211	6/4/13 10:35	DT	420	54	<0.1	<0.1	0.13	0.13	<5	<5	<2	<2	<2	<2	<2	<2	<2	<5	<2	<0.5	4.2	<0.5	0.82	2.8	<20	1.8	<0.5	15	2.8	855
SMC14211	6/4/13 10:35	DF																		<0.5	4.3	<0.5	0.84	3.8	<20	1.8	<0.5	15	4.2	
SMC14099	6/13/13 12:10	DT	<300	<0.5	<0.1	0.66	0.38	0.11	<5	<5	<2	<2	<2	<2	<2	<2	<2	13	<2	<0.5	3.6	<0.5	<0.5	1.9	230	2.2	<0.5	<0.5	2.4	490
SMC14099	6/13/13 12:10	DF																		<0.5	3.4	<0.5	<0.5	2.2	36	2.3	<0.5	<0.5	2.5	
SMC09091	6/27/13 7:52	DT	<300	4.6	0.13	1.1	0.49	0.11	<5	<5	<2	3.7	<2	<2	<2	<2	<2	<5	<2	<0.5	4.2	<0.5	<0.5	4.9	79	1.8	<0.5	2.5	11	350
SMC09091	6/27/13 7:52	DF																		<0.5	4.4	<0.5	<0.5	4.6	25	1.7	<0.5	2.5	12	

Table 10a: Pyrethroid Pesticides in Benthic Sediments at SAR Bioassessment Sites: 2012-13

				Synthetic Pyrethroid Pesticides									
				Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Esfenvalerate	L-Cyhalothrin	Permethrin	Prallethrin	TOC
Station	Date	Type	Matrix	ug/kg									mg/Kg
SMC09118	5/22/13 10:02	DT	SED	<3.8	4.1	<3.8	<3.8	<3.8	NR	<3.8	<3.8	<3.8	4740
SMC13214	5/22/13 7:30	DT	SED	<4	4.5	<4	<4	<4	NR	<4	<4	<4	3790
SMC13187	6/4/13 8:45	DT	SED	<3.2	<3.2	<3.2	<3.2	<3.2	NR	<3.2	<3.2	<3.2	650
SMC14211	6/4/13 10:35	DT	SED	<3.4	<3.4	<3.4	<3.4	<3.4	NR	<3.4	<3.4	<3.4	2350
SMC14099	6/13/13 12:10	DT	SED	<3.5	<3.5	<3.5	<3.5	<3.5	NR	<3.5	<3.5	<3.5	1120
SMC09091	6/27/13 7:52	DT	SED	<3.6	7.8	<3.6	<3.6	<3.6	NR	<3.6	<3.6	<3.6	5050

Table 11: Aqueous Toxicity at SAR Bioassessment Sites: 2012-13

			Ceriodaphnia Survival and Reproduction																	Hyallela Survival 96 Hour				
			Acute Survival						Ceriodaphnia Survival						Ceriodaphnia Reproduction									
			Survival in Control	Survival in 100% sampl	NOEC	IC25	IC50	TUa (computed)	Survival in Control	Survival in 100% sampl	NOEC	IC25	IC50	TUc	Reprod IN Control	Reprod in 100% sample	IC25	IC50	TUc	Survival in Control	Survival in 100% sampl	IC25	IC50	TUc
Station	Date	Type	%	%	conc			TU	%	%	conc			TU	young/indiv		conc	conc	TU	%	%	conc		TU
SMC09118	5/22/13 10:02	DT																		98	100	>100	>100	1
SMC13214	5/22/13 7:30	DT																		98	100	>100	>100	1
SMC13187	6/4/13 8:45	DT	100	100	100	>100	>100	0	100	100	100	>100	>100	1	15.2	27.8	>100	>100	1					
SMC14211	6/4/13 10:35	DT	100	100	100	>100	>100	0	100	100	100	>100	>100	1	15.2	22.2	>100	>100	1					
SMC14099	6/13/13 12:10	DT	100	100	100	>100	>100	0	100	100	100	>100	>100	1	29.2	20.7	85.882	>100	1					
SMC09091	6/27/13 7:52	DT	100	100	100	>100	>100	0	100	100	100	>100	>100	1	19	21	>100	>100	1					

Table 12: Aqueous Chemistry at SAR Harbors, Estuaries, and Marshes: 2012-13

Station	Date	Type	Depth	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	AmmoniaN	TKN	OrthoPhosphate as P	TotalPhosphorus as PO	TSS	VSS	DOC	TOC	OilAndGrease	Ag	As	Be	Cd	Cr	Cu	Fe	Ni	Pb	Sb	Se	Tl	Zn	Hg
				uS	SU	NTU	mg/L										ug/L													ng/L
BBOLR	9/19/12 10:27	DT	S	50300	7.66	2.26	<0.4	<0.1	0.9	0.07	0.51	<5	<5			NC														
BBOLR	9/19/12 10:27	DT	ID											<0.3	0.601		<0.05	1.6	<0.05	0.091	1.6	12	1600	2.1	6	0.27	<0.1	<0.05	28	3.9
BBOLR	9/19/12 10:27	DF	ID														<0.05	1.3	<0.05	0.063	<0.3	4.1	13	1.1	0.18	0.4	<0.1	<0.05	6.9	0.58
BBOLR	5/30/13 9:00	DT	S	51400	7.7	4.91	<0.4	<0.1	0.8	<0.02	0.33	14	<5			<5														
BBOLR	5/30/13 9:00	DT	ID											1.08	1.43		<0.05	1.2	<0.05	0.084	0.91	7.7	560	1.5	2.8	<0.2	<0.1	<0.05	17	1.4
BBOLR	5/30/13 9:00	DF	ID														<0.05	1	<0.05	0.14	<0.3	3.7	13	1.2	0.13	0.29	<0.1	<0.05	8.1	<0.2
HUNBCC	9/19/12 9:38	DT	S	49700	7.76	2.28	<0.4	<0.1	1	<0.02	0.16	<5	<5			NC														
HUNBCC	9/19/12 9:38	DT	ID											<0.3	<0.3		<0.05	0.96	<0.05	0.055	0.52	12	260	0.79	0.6	0.23	<0.1	<0.05	12	0.85
HUNBCC	9/19/12 9:38	DF	ID														<0.05	0.98	<0.05	0.066	<0.3	8.2	3.8	0.53	0.17	0.27	<0.1	<0.05	10	0.31
HUNBCC	5/30/13 8:15	DT	S	42900	7.93	2.96	<0.4	0.1	0.7	<0.02	0.21	5	<5			<5														
HUNBCC	5/30/13 8:15	DT	ID											0.845	1.58		<0.05	0.88	<0.1	0.17	0.6	12	310	1.1	0.66	0.24	<0.1	<0.05	19	0.97
HUNBCC	5/30/13 8:15	DF	ID														<0.05	0.76	<0.1	0.23	<0.3	8.8	4.8	0.93	0.093	0.2	<0.1	<0.05	20	<0.2
HUNCRB	9/19/12 10:50	DT	S	49800	7.87	1.18	<0.4	<0.1	0.6	<0.02	0.17	<5	<5			NC														
HUNCRB	9/19/12 10:50	DT	ID											<0.3	<0.3		<0.05	1	<0.05	0.058	0.36	6.3	150	0.59	0.67	0.25	<0.1	<0.05	20	0.64
HUNCRB	9/19/12 10:50	DF	ID														<0.05	1	<0.05	0.06	<0.3	5	4.6	0.61	0.15	0.27	<0.1	<0.05	20	0.36
HUNCRB	5/30/13 8:53	DT	S	50900	7.99	1.25	<0.4	<0.1	0.5	<0.02	0.14	<5	<5			<5														
HUNCRB	5/30/13 8:53	DT	ID											0.503	0.694		<0.05	0.83	<0.1	0.11	0.35	5.5	100	0.62	0.43	<0.2	<0.1	<0.05	17	0.8
HUNCRB	5/30/13 8:53	DF	ID														<0.05	0.84	<0.1	0.077	<0.3	4.2	2.6	0.55	0.071	0.21	<0.1	<0.05	15	0.56
HUNWAR	9/19/12 11:54	DT	S	49800	7.88	1.69	<0.4	<0.1	0.6	<0.02	0.16	<5	<5			NC														
HUNWAR	9/19/12 11:54	DT	ID											<0.3	<0.3		<0.05	1	<0.05	0.052	0.56	4.2	240	0.82	0.63	0.25	<0.1	<0.05	16	1.2
HUNWAR	9/19/12 11:54	DF	ID														<0.05	0.98	<0.05	0.06	<0.3	2.7	7.9	0.6	0.14	0.32	<0.1	<0.05	15	0.6
HUNWAR	5/30/13 9:33	DT	S	49500	7.81	4.62	<0.4	0.1	0.7	<0.02	0.29	11	<5			<5														
HUNWAR	5/30/13 9:33	DT	ID											0.748	0.915		<0.05	0.98	<0.1	0.12	0.61	5.1	450	1.1	1.6	<0.2	<0.1	<0.05	17	1
HUNWAR	5/30/13 9:33	DF	ID														<0.05	1.1	<0.1	0.078	<0.3	2.5	7.9	0.77	0.099	0.31	<0.1	<0.05	11	0.37
LNBHIR	9/13/12 9:55	DT	S	49700	7.91	4.03	<0.4	<0.1	0.5	0.02	0.13	6	<5			NC														
LNBHIR	9/13/12 9:55	DT	M	50100	7.95	6.44	<0.4	<0.1	0.5	0.02	0.15	12	<5																	
LNBHIR	9/13/12 9:55	DT	B	50200	7.97	4.3	<0.4	<0.1	0.4	<0.02	0.07	6	<5																	
LNBHIR	9/13/12 9:55	DT	ID											<0.3	<0.3		<0.05	0.94	<0.05	0.11	0.56	5.4	320	0.87	0.12	<0.2	<0.1	<0.05	18	1
LNBHIR	9/13/12 9:55	DF	ID														<0.05	0.86	<0.05	0.1	<0.3	2.7	4.4	0.55	0.02	0.22	<0.1	<0.05	15	0.41
LNBHIR	11/27/12 11:40	DT	S	49600	7.93	2.02	<0.4	<0.1	0.6	<0.02	0.1	<5	<5			NC														
LNBHIR	11/27/12 11:40	DT	M	50000	7.95	1.9	<0.4	<0.1	0.6	<0.02	0.09	<5	<5																	
LNBHIR	11/27/12 11:40	DT	B	50200	7.97	1.95	<0.4	<0.1	0.5	<0.02	0.09	<5	<5																	
LNBHIR	11/27/12 11:40	DT	ID											<0.3	<0.3		<0.05	0.79	<0.05	0.082	<0.3	3.3	89	0.56	0.19	<0.2	<0.1	<0.05	13	2.1
LNBHIR	11/27/12 11:40	DF	ID														<0.05	0.64	<0.05	0.087	<0.3	2.7	1.4	0.53	0.032	0.24	<0.1	<0.05	13	2.2
LNBHIR	3/20/13 12:49	DT	S	47900	7.77	3.71	0.5	<0.1	0.4	0.03	0.16	6	<5			<5														
LNBHIR	3/20/13 12:49	DT	M	48800	7.89	2.98	<0.4	<0.1	0.3	0.03	0.13	16	<5																	
LNBHIR	3/20/13 12:49	DT	B	50300	7.97	2.74	<0.4	<0.1	0.2	0.02	0.12	5	<5																	
LNBHIR	3/20/13 12:49	DT	ID											<0.3	<0.3		<0.05	0.63	<0.05	0.11	<0.3	4.9	75	0.63	0.19	<0.2	<0.1	<0.05	16	0.96
LNBHIR	3/20/13 12:49	DF	ID														<0.05	0.71	<0.05	0.12	<0.3	4	3.2	0.69	0.041	<0.2	<0.1	<0.05	16	1.1

Table 12: Aqueous Chemistry at SAR Harbors, Estuaries, and Marshes: 2012-13

Station	Date	Type	Depth	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	AmmoniaN	TKN	OrthoPhosphate as P	TotalPhosphorus as PO	TSS	VSS	DOC	TOC	OilAndGrease	Ag	As	Be	Cd	Cr	Cu	Fe	Ni	Pb	Sb	Se	Tl	Zn	Hg
				uS	SU	NTU	mg/L										ug/L													ng/L
LNBHIR	6/19/13 9:32	DT	S	50400	7.91	4.95	<0.4	<0.1	0.4	<0.02	0.13	9	<5			<5														
LNBHIR	6/19/13 9:32	DT	M	50700	7.95	5.37	<0.4	<0.1	0.4	<0.02	0.13	11	<5																	
LNBHIR	6/19/13 9:32	DT	B	50300	8.01	8.27	<0.4	<0.1	0.4	<0.02	0.14	16	<5																	
LNBHIR	6/19/13 9:32	DT	ID											0.301	0.471		<0.05	1	<0.05	0.14	0.49	5.3	270	0.81	0.48	0.31	<0.1	<0.05	13	2
LNBHIR	6/19/13 9:32	DF	ID														<0.05	0.96	<0.05	0.11	<0.3	3.8	2.4	0.64	0.056	0.33	<0.1	<0.05	11	0.25
LNBTUB	9/13/12 11:02	DT	S	49900	7.94	2.45	<0.4	<0.1	0.4	0.02	0.11	<5	<5			NC														
LNBTUB	9/13/12 11:02	DT	ID											<0.3	<0.3		<0.05	0.94	<0.05	0.084	0.38	5	110	0.58	0.32	0.21	<0.1	<0.05	18	1.6
LNBTUB	9/13/12 11:02	DF	ID														<0.05	0.83	<0.05	0.079	<0.3	3.5	3.9	0.52	0.059	0.24	<0.1	<0.05	17	0.57
LNBTUB	11/27/12 12:30	DT	S	49600	7.94	0.9	<0.4	<0.1	0.6	<0.02	0.09	<5	<5			NC														
LNBTUB	11/27/12 12:30	DT	ID											<0.3	<0.3		<0.05	0.8	<0.05	0.1	<0.3	6.2	140	0.82	0.3	<0.2	<0.1	<0.05	25	1.6
LNBTUB	11/27/12 12:30	DF	ID														<0.05	0.74	<0.05	0.1	<0.3	3.8	4.3	0.59	0.066	0.24	<0.1	<0.05	23	<0.2
LNBTUB	3/20/13 12:09	DT	S	49100	7.88	0.6	0.4	<0.1	0.2	0.03	0.12	<5	<5			<5														
LNBTUB	3/20/13 12:09	DT	ID											<0.3	<0.3		<0.05	0.67	<0.05	0.1	<0.3	5.3	45	0.61	0.14	<0.2	<0.1	<0.05	16	1.4
LNBTUB	3/20/13 12:09	DF	ID														<0.05	0.71	<0.05	0.1	<0.3	4.3	2.6	0.5	0.3	<0.2	<0.1	<0.05	16	0.72
LNBTUB	6/19/13 10:19	DT	S	50600	7.96	2.01	<0.4	<0.1	0.4	<0.02	0.11	9	<5			<5														
LNBTUB	6/19/13 10:19	DT	ID											0.357	0.409		<0.05	1	<0.05	0.1	0.3	7.5	100	0.73	0.27	0.31	<0.1	<0.05	20	1.5
LNBTUB	6/19/13 10:19	DF	ID														<0.05	1	<0.05	0.1	<0.3	6.1	2.1	0.7	0.043	0.39	<0.1	<0.05	19	<0.2
TBTMAR	9/19/12 11:51	DT	S	50400	7.96	1.74	<0.4	<0.1	0.2	<0.02	0.09	6	<5			NC														
TBTMAR	9/19/12 11:51	DT	ID											<0.3	<0.3		<0.05	0.94	<0.05	0.059	0.39	3.8	65	0.52	0.16	0.2	<0.1	<0.05	6.7	0.51
TBTMAR	9/19/12 11:51	DF	ID														<0.05	0.91	<0.05	0.099	0.32	3.2	12	0.48	0.079	0.24	<0.1	<0.05	10	0.27
TBTMAR	5/30/13 9:50	DT	S	50200	8.07	4.34	<0.4	<0.1	0.6	<0.02	0.23	7	<5			<5														
TBTMAR	5/30/13 9:50	DT	ID											0.803	0.824		<0.05	1.2	<0.05	0.1	0.49	6.2	280	1	0.51	0.27	<0.1	<0.05	7.1	0.6
TBTMAR	5/30/13 9:50	DF	ID														<0.05	1.1	<0.05	0.16	<0.3	5.1	7.1	0.89	0.077	0.29	<0.1	<0.05	8.7	<0.2
TGDC05	9/19/12 9:12	DT	S	48800	7.61	19.8	<0.4	<0.1	0.9	0.03	0.59	47	6			NC														
TGDC05	9/19/12 9:12	DT	ID											<0.3	0.375		<0.05	1.3	<0.05	0.082	0.78	13	460	1.1	1.4	0.29	<0.1	<0.05	15	0.86
TGDC05	9/19/12 9:12	DF	ID														<0.05	1.1	<0.05	0.094	<0.3	10	11	0.87	<0.01	0.34	<0.1	<0.05	11	0.68
TGDC05	5/30/13 8:20	DT	S	49200	7.71	4.06	<0.4	0.1	0.7	<0.02	0.31	10	<5			<5														
TGDC05	5/30/13 8:20	DT	ID											2.03	2.31		<0.05	1.2	<0.05	0.057	<0.3	4.9	190	1.1	0.31	0.28	<0.1	<0.05	8.5	0.39
TGDC05	5/30/13 8:20	DF	ID														<0.05	1.2	<0.05	0.05	<0.3	4.6	11	1.1	0.018	0.33	<0.1	<0.05	7	<0.2
UNBCHB	9/13/12 8:55	DT	S	49900	7.86	4.85	<0.4	<0.1	0.6	0.02	0.15	7	<5			NC														
UNBCHB	9/13/12 8:55	DT	M	50000	7.88	4.79	<0.4	<0.1	0.5	0.02	0.14	10	<5																	
UNBCHB	9/13/12 8:55	DT	B	49900	7.9	8.33	<0.4	<0.1	0.5	0.02	0.18	12	<5																	
UNBCHB	9/13/12 8:55	DT	ID											<0.3	<0.3		<0.05	1.1	<0.05	0.11	0.98	8.2	580	1	1.2	0.2	<0.1	<0.05	24	4.7
UNBCHB	9/13/12 8:55	DF	ID														<0.05	0.78	<0.05	0.096	<0.3	3.7	7.5	0.62	0.093	0.26	<0.1	<0.05	19	0.37
UNBCHB	11/27/12 11:18	DT	S	49700	7.91	2.68	<0.4	<0.1	0.6	<0.02	0.1	<5	<5			NC														
UNBCHB	11/27/12 11:18	DT	M	49700	7.94	2.31	<0.4	<0.1	0.6	<0.02	0.12	<5	<5																	
UNBCHB	11/27/12 11:18	DT	B	49700	7.92	2.29	<0.4	<0.1	0.5	<0.02	0.11	<5	<5																	
UNBCHB	11/27/12 11:18	DT	ID											<0.3	<0.3		<0.05	0.7	<0.05	0.085	0.36	5	100	0.91	0.18	0.22	<0.1	<0.05	14	1.5
UNBCHB	11/27/12 11:18	DF	ID														<0.05	0.71	<0.05	0.096	<0.3	4.5	2.5	0.84	0.033	0.22	<0.1	<0.05	14	0.23

Table 12: Aqueous Chemistry at SAR Harbors, Estuaries, and Marshes: 2012-13

Station	Date	Type	Depth	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	AmmoniaN	TKN	OrthoPhosphate as P	TotalPhosphorus as PO	TSS	VSS	DOC	TOC	OilAndGrease	Ag	As	Be	Cd	Cr	Cu	Fe	Ni	Pb	Sb	Se	Tl	Zn	Hg
				uS	SU	NTU	mg/L										ug/L													ng/L
UNBCHB	3/20/13 11:16	DT	S	45800	7.84	4.82	0.7	0.1	0.4	0.03	0.18	7	<5			<5														
UNBCHB	3/20/13 11:16	DT	M	45900	7.85	4.74	0.6	0.1	0.4	0.04	0.18	6	<5																	
UNBCHB	3/20/13 11:16	DT	B	46100	7.83	41.8	<0.4	0.1	0.5	0.04	0.35	84	10																	
UNBCHB	3/20/13 11:16	DT	ID											<0.3	<0.3		<0.05	0.84	<0.05	0.17	1.1	7.9	610	1.5	1.2	<0.2	0.21	<0.05	22	4.4
UNBCHB	3/20/13 11:16	DF	ID														<0.05	0.67	<0.05	0.13	<0.3	3.6	9	1.1	0.057	<0.2	0.22	<0.05	15	1.6
UNBCHB	6/19/13 11:30	DT	S	50000	7.86	3.42	<0.4	<0.1	0.4	0.03	0.16	7	<5			<5														
UNBCHB	6/19/13 11:30	DT	M	50100	7.9	3.59	<0.4	<0.1	0.4	0.02	0.14	6	<5																	
UNBCHB	6/19/13 11:30	DT	B	50000	7.92	6.8	<0.4	<0.1	0.4	0.02	0.19	14	<5																	
UNBCHB	6/19/13 11:30	DT	ID											0.395	0.426		<0.05	1	<0.05	0.12	0.4	5.9	160	0.98	0.36	0.28	0.12	<0.05	17	1.2
UNBCHB	6/19/13 11:30	DF	ID														<0.05	1	<0.05	0.11	<0.3	4.2	2.9	0.82	0.054	0.39	0.12	<0.05	15	<0.2
UNBJAM	9/11/12 9:35	DT	S	24900	7.95	4.83	<0.4	<0.1	1.1	0.07	0.38	6	<5			NC														
UNBJAM	9/11/12 9:35	DT	M	48300	7.7	3.22	<0.4	<0.1	0.7	0.05	0.21	<5	<5																	
UNBJAM	9/11/12 9:35	DT	B	48800	7.4	2.53	<0.4	<0.1	0.6	0.07	0.26	<5	<5																	
UNBJAM	9/11/12 9:35	DT	ID											0.334	0.341		<0.05	1.2	<0.05	0.12	<0.3	2	130	1	0.22	0.28	0.22	<0.05	7	0.49
UNBJAM	9/11/12 9:35	DF	ID														<0.05	1.2	<0.05	0.076	<0.3	1.3	7.4	1.2	<0.01	0.32	0.21	<0.05	6.8	0.57
UNBJAM	11/28/12 9:13	DT	S	45100	8.19	7.16	<0.4	<0.1	2.26	<0.02	0.62	16	12			NC														
UNBJAM	11/28/12 9:13	DT	M	47700	7.79	2.06	<0.4	<0.1	0.7	<0.02	0.1	<5	<5																	
UNBJAM	11/28/12 9:13	DT	B	48200	7.71	3.5	<0.4	0.3	0.9	0.05	0.23	<5	<5																	
UNBJAM	11/28/12 9:13	DT	ID											0.311	0.44		<0.05	0.68	<0.05	0.1	<0.3	3.6	81	0.91	0.15	0.24	<0.1	<0.05	12	0.39
UNBJAM	11/28/12 9:13	DF	ID														<0.05	0.65	<0.05	0.1	<0.3	4	2.2	0.85	0.023	0.27	0.11	<0.05	12	0.2
UNBJAM	3/20/13 9:15	DT	S	32000	7.71	4.86	2.3	0.2	0.7	<0.02	0.27	8	<5			<5														
UNBJAM	3/20/13 9:15	DT	M	46800	7.62	5.79	0.5	0.2	0.6	0.06	0.25	27	6																	
UNBJAM	3/20/13 9:15	DT	B	47100	7.58	14.1	0.4	0.2	0.5	0.06	0.32	19	<5																	
UNBJAM	3/20/13 9:15	DT	ID											<0.3	<0.3		<0.05	0.87	<0.05	0.18	1.1	8	770	1.7	0.93	<0.2	<0.1	<0.05	19	3.3
UNBJAM	3/20/13 9:15	DF	ID														<0.05	0.71	<0.05	0.1	<0.3	1.7	19	0.94	0.028	<0.2	0.23	<0.05	9.1	0.78
UNBJAM	6/19/13 9:30	DT	S	37300	7.93	4.6	1.1	<0.1	0.8	<0.02	0.24	6	<5			<5														
UNBJAM	6/19/13 9:30	DT	M	48400	7.79	2.95	<0.4	<0.1	0.5	0.04	0.22	<5	<5																	
UNBJAM	6/19/13 9:30	DT	B	48700	7.62	11.6	<0.4	<0.1	0.5	0.08	0.37	26	<5																	
UNBJAM	6/19/13 9:30	DT	ID											0.714	0.888		<0.05	1.1	<0.05	0.13	<0.3	3.9	96	1.1	0.24	0.32	0.18	<0.05	12	0.67
UNBJAM	6/19/13 9:30	DF	ID														<0.05	1	<0.05	0.092	<0.3	1.8	4.6	1	0.026	0.4	0.14	<0.05	11	0.22
UNBNSB	9/11/12 12:04	DT	S	48100	7.91	2.77	<0.4	<0.1	0.6	0.04	0.21	<5	<5			NC														
UNBNSB	9/11/12 12:04	DT	M	49600	7.89	4.57	<0.4	<0.1	0.5	0.03	0.15	7	<5																	
UNBNSB	9/11/12 12:04	DT	B	49700	7.83	55	<0.4	<0.1	0.7	0.03	0.35	108	10																	
UNBNSB	9/11/12 12:04	DT	ID											<0.3	<0.3		<0.05	0.94	<0.05	0.12	0.44	4.4	390	1	0.44	0.22	0.13	<0.05	15	1.2
UNBNSB	9/11/12 12:04	DF	ID														<0.05	1	<0.05	0.1	<0.3	2	6.1	0.77	0.089	0.3	<0.1	<0.05	11	0.34
UNBNSB	11/28/12 10:30	DT	S	49200	7.89	5.25	<0.4	<0.1	0.6	0.02	0.14	10	<5			NC														
UNBNSB	11/28/12 10:30	DT	M	49300	7.89	8.21	<0.4	<0.1	0.7	0.02	0.17	12	<5																	
UNBNSB	11/28/12 10:30	DT	B	49300	7.89	8.38	<0.4	<0.1	0.7	0.02	0.17	18	<5																	
UNBNSB	11/28/12 10:30	DT	ID											<0.3	<0.3		<0.05	0.8	<0.05	0.11	0.41	4.8	200	0.76	0.34	<0.2	<0.1	<0.05	16	1.1

Table 12: Aqueous Chemistry at SAR Harbors, Estuaries, and Marshes: 2012-13

Station	Date	Type	Depth	SpecCond	pH	Turbidity	Nitrate+Nitrite as NO_3	AmmoniaN	TKN	OrthoPhosphate as P	TotalPhosphorus as PO	TSS	VSS	DOC	TOC	OilAndGrease	Ag	As	Be	Cd	Cr	Cu	Fe	Ni	Pb	Sb	Se	Tl	Zn	Hg
				uS	SU	NTU	mg/L										ug/L													ng/L
UNBNSB	11/28/12 10:30	DF	ID														<0.05	0.73	<0.05	0.097	<0.3	3.5	15	0.69	0.054	<0.2	<0.1	<0.05	16	0.29
UNBNSB	3/20/13 10:31	DT	S	41600	7.86	3.92	1.1	0.2	0.5	0.04	0.18	6	<5			<5														
UNBNSB	3/20/13 10:31	DT	M	41900	7.89	3.15	0.8	0.2	0.5	0.04	0.2	5	<5																	
UNBNSB	3/20/13 10:31	DT	B	42300	7.9	2.98	1	<0.1	0.5	0.04	0.18	5	<5																	
UNBNSB	3/20/13 10:31	DT	ID											<0.3	<0.3		<0.05	0.75	<0.05	0.17	0.8	4.4	140	1.7	0.35	<0.2	0.37	<0.05	11	1.4
UNBNSB	3/20/13 10:31	DF	ID														<0.05	0.66	<0.05	0.12	<0.3	3.4	9.2	1.8	0.025	<0.2	0.37	<0.05	10	0.68
UNBNSB	6/19/13 11:00	DT	S	48700	7.95	4.09	<0.4	<0.1	0.5	0.03	0.19	6	<5			<5														
UNBNSB	6/19/13 11:00	DT	M	48600	7.94	3.82	<0.4	<0.1	0.5	0.03	0.18	7	<5																	
UNBNSB	6/19/13 11:00	DT	B	48800	7.94	3.73	<0.4	<0.1	0.5	0.03	0.19	7	<5																	
UNBNSB	6/19/13 11:00	DT	ID											0.736	0.793		<0.05	1	<0.05	0.13	0.3	4.4	130	1.1	0.32	0.28	0.26	<0.05	12	0.83
UNBNSB	6/19/13 11:00	DF	ID														<0.05	1.1	<0.05	0.13	<0.3	4.2	4.3	1	0.056	0.44	0.24	<0.05	12	0.46
UNBSDC	9/11/12 10:40	DT	S	44100	8.01	2.25	<0.4	<0.1	0.6	0.05	0.24	<5	<5			NC														
UNBSDC	9/11/12 10:40	DT	M	48200	7.84	3.25	<0.4	<0.1	0.7	0.05	0.23	5	<5																	
UNBSDC	9/11/12 10:40	DT	B	48800	7.87	4.13	<0.4	<0.1	0.5	0.05	0.19	10	<5																	
UNBSDC	9/11/12 10:40	DT	ID											<0.3	0.32		<0.05	1.2	<0.05	0.18	0.43	4.5	210	1.6	0.19	0.29	0.22	<0.05	13	1.3
UNBSDC	9/11/12 10:40	DF	ID														<0.05	1	<0.05	0.13	<0.3	2.5	4.9	0.93	0.07	0.3	0.21	<0.05	9	0.79
UNBSDC	11/28/12 9:55	DT	S	46900	7.95	3.37	0.5	<0.1	0.7	<0.02	0.14	<5	<5			NC														
UNBSDC	11/28/12 9:55	DT	M	48400	7.87	5	<0.4	<0.1	0.6	0.02	0.14	9	<5																	
UNBSDC	11/28/12 9:55	DT	B	49100	7.87	5.08	<0.4	<0.1	0.6	0.02	0.15	8	<5																	
UNBSDC	11/28/12 9:55	DT	ID											<0.3	<0.3		<0.05	0.74	<0.05	0.1	0.31	3.5	110	0.82	0.25	0.23	<0.1	<0.05	14	0.57
UNBSDC	11/28/12 9:55	DF	ID														<0.05	0.75	<0.05	0.11	<0.3	2.9	1.7	0.75	0.034	0.22	<0.1	<0.05	13	<0.2
UNBSDC	3/20/13 10:09	DT	S	25000	8.12	4.57	3	<0.1	0.7	<0.02	0.24	7	<5			<5														
UNBSDC	3/20/13 10:09	DT	M	47800	7.67	3.87	0.5	0.2	0.5	0.04	0.19	<5	<5																	
UNBSDC	3/20/13 10:09	DT	B	48600	7.71	7.37	0.4	0.2	0.5	0.04	0.2	16	<5																	
UNBSDC	3/20/13 10:09	DT	ID											<0.3	<0.3		<0.05	0.79	<0.05	0.18	0.54	5.1	340	1.2	0.69	<0.2	0.24	<0.05	17	2.4
UNBSDC	3/20/13 10:09	DF	ID														<0.05	0.68	<0.05	0.17	<0.3	2.7	7.9	0.85	0.065	<0.2	0.24	<0.05	12	1.4
UNBSDC	6/19/13 10:10	DT	S	44900	8	2.76	<0.4	<0.1	0.7	0.03	0.22	5	<5			<5														
UNBSDC	6/19/13 10:10	DT	M	48600	7.91	3.01	<0.4	<0.1	0.5	0.04	0.21	<5	<5																	
UNBSDC	6/19/13 10:10	DT	B	49400	7.88	12.2	<0.4	0.2	0.7	0.07	0.58	27	<5																	
UNBSDC	6/19/13 10:10	DT	ID											0.748	0.848		<0.05	1.2	<0.05	0.13	0.36	4.9	160	1.2	0.36	0.38	0.24	<0.05	13	0.8
UNBSDC	6/19/13 10:10	DF	ID														<0.05	1.2	<0.05	0.13	<0.3	5	4.3	1.5	0.058	0.49	0.24	<0.05	12	<0.2

Table 12: Aqueous Chemistry at SAR Harbors, Estuaries, and Marshes Sites: 2012-13

Station	Date	Type	Depth	DOC	TOC	GLYP	Azinphos methyl (Guthion	Bolstar	Chlorpyrifos	Coumaphos	Demeton-o	Demeton-s	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethoprop	Ethyl Parathion	Fensulfothion	Fenthion	Malathion	Merphos	Mevinphos	Naled	Parathion-methyl	Phorate	Ronnel	Tetrachlorovinphos	Tokuthion	Trichloronate
				mg/L		ug/L	ng/L																							
BBOLR	9/19/12 10:27	DT	ID	<0.3	0.601	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BBOLR	5/30/13 9:00	DT	ID	1.08	1.43	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
HUNBCC	9/19/12 9:38	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
HUNBCC	5/30/13 8:15	DT	ID	0.845	1.58	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
HUNCRB	9/19/12 10:50	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
HUNCRB	5/30/13 8:53	DT	ID	0.503	0.694	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
HUNWAR	9/19/12 11:54	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
HUNWAR	5/30/13 9:33	DT	ID	0.748	0.915	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
LNBHIR	9/13/12 9:55	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
LNBHIR	11/27/12 11:40	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
LNBHIR	3/20/13 12:49	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
LNBHIR	6/19/13 9:32	DT	ID	0.301	0.471	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
LNBTUB	9/13/12 11:02	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
LNBTUB	11/27/12 12:30	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
LNBTUB	3/20/13 12:09	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
LNBTUB	6/19/13 10:19	DT	ID	0.357	0.409	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TBTMAR	9/19/12 11:51	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TBTMAR	5/30/13 9:50	DT	ID	0.803	0.824	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
TGDC05	9/19/12 9:12	DT	ID	<0.3	0.375	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TGDC05	5/30/13 8:20	DT	ID	2.03	2.31	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBCHB	9/13/12 8:55	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBCHB	11/27/12 11:18	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBCHB	3/20/13 11:16	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBCHB	6/19/13 11:30	DT	ID	0.395	0.426		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBJAM	9/11/12 9:35	DT	ID	0.334	0.341	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBJAM	11/28/12 9:13	DT	ID	0.311	0.44	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBJAM	3/20/13 9:15	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBJAM	6/19/13 9:30	DT	ID	0.714	0.888		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBNSB	9/11/12 12:04	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBNSB	11/28/12 10:30	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBNSB	3/20/13 10:31	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBNSB	6/19/13 11:00	DT	ID	0.736	0.793		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBSDC	9/11/12 10:40	DT	ID	<0.3	0.32	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
UNBSDC	11/28/12 9:55	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBSDC	3/20/13 10:09	DT	ID	<0.3	<0.3	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NR	<10	<10	<10	<10	<10	<10
UNBSDC	6/19/13 10:10	DT	ID	0.748	0.848		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Table 12: Pathogen Indicator Bacteria at SAR Harbors, Estuaries, and Marshes Sites: 2012-13

Station	Date	Type	Depth	Total Coliform	Fecal Coliform	Enterococci	Secchi	Wind	OilAndGrease
				CFU/100 ml			ft	ft/sec	mg/L
BBOLR	9/19/12 10:27	DT	S	>20	<9	<9	1	3	NC
BBOLR	5/30/13 9:00	DT	S	>120	99	9	1.5		<5
HUNBCC	9/19/12 9:38	DT	S	30	20	<9	4	3.7	NC
HUNBCC	5/30/13 8:15	DT	S	>130	70	40	4.5	1.5	<5
HUNCRB	9/19/12 10:50	DT	S	40	<9	<9	6	8.2	NC
HUNCRB	5/30/13 8:53	DT	S	<9	<9	<9	7	3	<5
HUNWAR	9/19/12 11:54	DT	S	<9	<9	<9	6	8.2	NC
HUNWAR	5/30/13 9:33	DT	S	>20	<9	<9	4	5.8	<5
LNBHIR	9/13/12 9:55	DT	S	30	<9	<9	4	0.7	NC
LNBHIR	11/27/12 11:40	DT	S	<9	<9	<9	8	0.5	NC
LNBHIR	3/20/13 12:49	DT	S	<9	<9	<9	5	8.8	<5
LNBHIR	6/19/13 9:32	DT	S	<9	<9	<9	4.5	8.6	<5
LNBTUB	9/13/12 11:02	DT	S	50	9	<9	5	2.5	NC
LNBTUB	11/27/12 12:30	DT	S	<9	<9	<9	8	4.5	NC
LNBTUB	3/20/13 12:09	DT	S	<9	9	<9	10	7.5	<5
LNBTUB	6/19/13 10:19	DT	S	30	<9	<9	7.5	4.7	<5
TBTMAR	9/19/12 11:51	DT	S	20	50	<9	1	3	NC
TBTMAR	5/30/13 9:50	DT	S	>20	30	20	1.5		<5
TGDC05	9/19/12 9:12	DT	S	>30	<9	<9	1	3	NC
TGDC05	5/30/13 8:20	DT	S	>40	20	<9	5.7		<5
UNBCHB	9/13/12 8:55	DT	S	70	9	<9	4	2.8	NC
UNBCHB	11/27/12 11:18	DT	S	<9	<9	<9	8	5.6	NC
UNBCHB	3/20/13 11:16	DT	S	20	9	<9			<5
UNBCHB	6/19/13 11:30	DT	S	<9	<9	9	6	5.6	<5
UNBJAM	9/11/12 9:35	DT	S	>260	50	9	4	3	NC
UNBJAM	11/28/12 9:13	DT	S	<9	<9	<9	2.5	1	NC
UNBJAM	3/20/13 9:15	DT	S	220	20	20	5	2.9	<5
UNBJAM	6/19/13 9:30	DT	S	>230	9	30	4	1.3	<5
UNBNSB	9/11/12 12:04	DT	S	20	9	<9	4	8.6	NC
UNBNSB	11/28/12 10:30	DT	S	9	9	9	6	1	NC
UNBNSB	3/20/13 10:31	DT	S	70	30	9	4.5	4.5	<5
UNBNSB	6/19/13 11:00	DT	S	9	<9	<9		4.1	<5
UNBSDC	9/11/12 10:40	DT	S	99	<9	40	5	1.4	NC
UNBSDC	11/28/12 9:55	DT	S	50	9	<9	5	1.5	NC
UNBSDC	3/20/13 10:09	DT	S	160	20	<9	4	3.7	<5
UNBSDC	6/19/13 10:10	DT	S	30	<9	<9	4	0.8	<5

Table 13: SAR Aqueous Toxicity in Harbors, Estuaries, and Marshes: 2012-13

			Chronic Sea Urchin Fertilization							Mysidopsis Bahia Survival and Growth																			
										Acute Survival							Chronic Survival							Growth						
Station	Date	Type	Fert in Control	Fert in 100% sample	Fert in 50% sample	NOEC	IC25	IC50	TUc	Survival in Control	Survival in 100% sample	Survival in 50% sample	NOEC	IC25	IC50	TUa (computed)	Survival in Control	Survival in 100%	Survival in 50%	NOEC	IC25	IC50	TUc	Growth in Control	Growth in 100% sample	Growth in 50% sample	NOEC	IC25	IC50	TUc
			%	%	%	%	%	%		%	%	%	%	%	%		%	%	%	%	%	%		mg	mg	mg	%	%	%	
UNBJAM	9/11/2012 9:35	DT	79.3	74.8	72.8	<50	>100	>100	>2	97.5	97.5	92.5	100	>100	>100	0.234	92.5	85	82.5	100	>100	>100	1	26.6	42.9	36	100	>100	>100	1
UNBSDC	9/11/2012 10:40	DT	80.5	73	73	<50	>100	>100	>2	97.5	100	100	100	>100	>100	0	90	82.5	90	100	>100	>100	1	27.6	50.7	40	100	>100	>100	1
UNBNSB	9/11/2012 12:04	DT	84.3	83.8	83	100	>100	>100	1	97.5	97.5	100	100	>100	>100	0.234	92.5	82.5	87.5	100	>100	>100	1	26.6	33	30.2	100	>100	>100	1
UNBCHB	9/13/2012 8:55	DT	89.5	80.5	84.5	<50	>100	>100	>2	97.5	87.5	97.5	100	>100	>100	0.645	95	87.5	95	100	>100	>100	1	25.4	24.4	22.3	100	>100	>100	1
LNBHIR	9/13/2012 9:55	DT	84.5	73	82.5	50	>100	>100	2	95	97.5	95	100	>100	>100	0.234	85	90	95	100	>100	>100	1	15.5	27.9	18.4	100	>100	>100	1
LNBTUB	9/13/2012 11:02	DT	79.5	63	65.25	<50	>100	>100	>2	97.5	97.5	97.5	100	>100	>100	0.234	95	95	92.5	100	>100	>100	1	25.4	26.2	29.5	100	>100	>100	1
TGDC05	9/19/2012 9:12	DT	100	96.8	94.8	<50	>100	>100	>2	100	100	95	100	>100	>100	0	92.5	90	82.5	100	>100	>100	1	34.4	32.4	30.5	100	>100	>100	1
HUNBCC	9/19/2012 9:38	DT	100	95	98.5	50	>100	>100	2	97.5	97.5	100	100	>100	>100	0.234	95	87.5	90	100	>100	>100	1	25.4	28	25.2	100	>100	>100	1
BBOLR	9/19/2012 10:27	DT	100	96	95	<50	>100	>100	>2	100	100	100	100	>100	>100	0	92.5	95	97.5	100	>100	>100	1	35.2	33.5	31.6	100	>100	>100	1
HUNCRB	9/19/2012 10:50	DT	100	95	98.2	50	>100	>100	2	97.5	97.5	100	100	>100	>100	0.234	95	97.5	90	100	>100	>100	1	25.4	36.8	26.4	100	>100	>100	1
TBTMAR	9/19/2012 11:51	DT	100	95.8	100	50	>100	>100	2	100	100	95	100	>100	>100	0	90	85	92.5	100	>100	>100	1	29.9	31.2	28.7	100	>100	>100	1
HUNWAR	9/19/2012 11:54	DT	100	95	100	50	>100	>100	2	97.5	97.5	100	100	>100	>100	0.234	95	97.5	97.5	100	>100	>100	1	25.4	36.8	32.8	100	>100	>100	1
UNBCHB	11/27/2012 11:18	DT	100	100	100	100	>100	>100	1	97.5	90	100	100	>100	>100	0.588	92.5	85	95	100	>100	>100	1	24	25.7	27.7	100	>100	>100	1
LNBHIR	11/27/2012 11:40	DT	100	100	100	100	>100	>100	1	92.5	97.5	100	100	>100	>100	0.234	85	92.5	100	100	>100	>100	1	22	23.6	34.2	100	>100	>100	1
LNBTUB	11/27/2012 12:30	DT	100	100	100	100	>100	>100	1	97.5	97.5	100	100	>100	>100	0.234	95	90	95	100	>100	>100	1	28.5	29.8	36.7	100	>100	>100	1
UNBJAM	11/28/2012 9:13	DT	100	100	100	100	>100	>100	1	97.5	87.5	90	100	>100	>100	0.645	92.5	87.5	87.5	100	>100	>100	1	24	20.1	20.3	100	>100	>100	1
UNBSDC	11/28/2012 9:55	DT	100	100	100	100	>100	>100	1	97.5	97.5	95	100	>100	>100	0.234	92.5	95	90	100	>100	>100	1	24	27.2	25.1	100	>100	>100	1
UNBNSB	11/28/2012 10:30	DT	100	100	100	100	>100	>100	1	97.5	87.5	95	100	>100	>100	0.645	92.5	82.5	95	100	>100	>100	1	24	27.8	37	100	>100	>100	1
UNBJAM	3/20/2013 9:15	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	95	100	97.5	100	>100	>100	1	39.4	43.2	41.7	100	>100	>100	1
UNBSDC	3/20/2013 10:09	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	97.5	95	97.5	100	>100	>100	1	35.2	46	41.6	100	>100	>100	1
UNBNSB	3/20/2013 10:31	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	95	97.5	100	100	>100	>100	1	32.2	41.7	42.9	100	>100	>100	1
UNBCHB	3/20/2013 11:16	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	95	100	100	100	>100	>100	1	39.4	46.3	42.4	100	>100	>100	1
LNBTUB	3/20/2013 12:09	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	95	100	100	100	>100	>100	1	39.4	49.6	44.4	100	>100	>100	1
LNBHIR	3/20/2013 12:49	DT	100	100	100	100	>100	>100	1	100	100	100	100	>100	>100	0	95	97.5	97.5	100	>100	>100	1	39.4	51.7	42.6	100	>100	>100	1
HUNBCC	5/30/2013 8:15	DT	100	100	100	100	>100	>100	1	95	97.5	100	100	>100	>100	0.234	80	97.5	97.5	100	>100	>100	1	27	34.7	30	100	>100	>100	1
TGDC05	5/30/2013 8:20	DT	94.2	100	99.5	100	>100	>100	1	95	97.5	100	100	>100	>100	0.234	80	90	100	100	>100	>100	1	27	35	36.3	100	>100	>100	1
HUNCRB	5/30/2013 8:53	DT	100	100	100	100	>100	>100	1	95	100	100	100	>100	>100	0	80	95	97.5	100	>100	>100	1	27	39.2	31.1	100	>100	>100	1
BBOLR	5/30/2013 9:00	DT	100	100	100	100	>100	>100	1	97.5	100	97.5	100	>100	>100	0	85	100	92.5	100	>100	>100	1	22.3	28.7	32.4	100	>100	>100	1
HUNWAR	5/30/2013 9:33	DT	100	100	100	100	>100	>100	1	95	100	95	100	>100	>100	0	80	100	92.5	100	>100	>100	1	27	40.3	28.5	100	>100	>100	1
TBTMAR	5/30/2013 9:50	DT	94.8	100	100	100	>100	>100	1	97.5	97.5	97.5	100	>100	>100	0.234	62.5	95	97.5	100	>100	>100	1	16.2	33.7	25.5	100	>100	>100	1
UNBJAM	6/19/2013 9:30	DT	100	100	100	100	>100	>100	1	97.5	100	100	100	>100	>100	0	87.5	92.5	87.5	100	>100	>100	1	31.9	50.4	42	100	>100	>100	1
LNBHIR	6/19/2013 9:32	DT	97	98.5	97.8	100	>100	>100	1	100	97.5	100	100	>100	>100	0.234	87.5	95	92.5	100	>100	>100	1	29.7	54.8	34.7	100	>100	>100	1
UNBSDC	6/19/2013 10:10	DT	92.5	92.5	91.8	100	>100	>100	1	100	97.5	100	100	>100	>100	0.234	82.5	90	82.5	100	>100	>100	1	33.2	35.5	27.1	100	>100	>100	1
LNBTUB	6/19/2013 10:19	DT	95.5	96.8	98.8	100	>100	>100	1	100	97.5	95	100	>100	>100	0.234	95	92.5	95	100	>100	>100	1	26.3	42.4	29.2	100	>100	>100	1
UNBNSB	6/19/2013 11:00	DT	100	100	100	100	>100	>100	1	97.5	100	100	100	>100	>100	0	87.5	95	92.5	100	>100	>100	1	31.9	36	33.9	100	>100	>100	1
UNBCHB	6/19/2013 11:30	DT	91.5	91.8	90.2	100	>100	>100	1	97.5	95	100	100	>100	>100	0.411	87.5	85	100	100	>100	>100	1	31.9	30.2	38.5	100	>100	>100	1

Table 13a: SAR Benthic Sediment Toxicity in Harbors, Estuaries, and Marshes: 2012-13

				Eohaustorius estuarius Survival					*Mytilus galloprovincialis* Fertilization				
				Survival Control	Survival in Sample	IC25	IC50	Probability	Fert Control	Fert in Sample	IC25	IC50	Probability
Station	Date	Matrix	Type	%		% Conc	% Conc		%		% Conc	% Conc	
UNBJAM	9/11/12 9:35	SED	DT	90	84	>100	>100	0.291	93.9	88.5	>100	>100	0.103
UNBSDC	9/11/12 10:40	SED	DT	90	93	>100	>100	0.479	93.9	92.6	>100	>100	0.783
UNBNSB	9/11/12 12:04	SED	DT	90	90	>100	>100	0.959	93.9	81.8	>100	>100	0.077
UNBCHB	9/13/12 8:55	SED	DT	90	81	>100	>100	0.186	93.9	76.6	>100	>100	0.004
LNBHIR	9/13/12 9:55	SED	DT	90	72	>100	>100	0.002	93.9	85.6	>100	>100	0.028
LNBTUB	9/13/12 11:02	SED	DT	90	87	>100	>100	0.463	93.9	74.6	>100	>100	0.001
TGDC05	9/19/12 9:12	SED	DT	94	95	>100	>100	0.803	88.7	79.4	>100	>100	0.033
HUNBCC	9/19/12 9:38	SED	DT	94	86	>100	>100	0.039	88.6	91.4	>100	>100	0.319
BBOLR	9/19/12 10:27	SED	DT	94	77	>100	>100	0.004	88.7	77.6	>100	>100	0.006
HUNCRB	9/19/12 10:50	SED	DT	94	90	>100	>100	0.306	88.6	84.8	>100	>100	0.241
TBTMAR	9/19/12 11:51	SED	DT	94	93	>100	>100	0.799	88.7	86.8	>100	>100	0.356
HUNWAR	9/19/12 11:54	SED	DT	94	59	67.143	>100	0	88.6	71	>100	>100	0.001
UNBCHB	11/27/12 11:18	SED	DT	93	94	>100	>100	0.943					
LNBHIR	11/27/12 11:40	SED	DT	93	80	>100	>100	0.015					
LNBTUB	11/27/12 12:30	SED	DT	93	97	>100	>100	0.4					
UNBJAM	11/28/12 9:13	SED	DT	93	76	>100	>100	0.01					
UNBSDC	11/28/12 9:55	SED	DT	93	77	>100	>100	0.012					
UNBNSB	11/28/12 10:30	SED	DT	93	83	>100	>100	0.06					
UNBJAM	3/20/13 9:15	SED	DT	95	79	>100	>100	0.001					
UNBSDC	3/20/13 10:09	SED	DT	95	63	74.219	>100	0					
UNBNSB	3/20/13 10:31	SED	DT	95	82	>100	>100	0.047					
UNBCHB	3/20/13 11:16	SED	DT	95	88	>100	>100	0.073					
LNBTUB	3/20/13 12:09	SED	DT	95	69	91.346	>100	0.001					
LNBHIR	3/20/13 12:49	SED	DT	95	95	>100	>100	NR					
HUNBCC	5/30/2013 8:15	SED	DT	94	86	>100	>100	0.041					
HUNCRB	5/30/2013 8:53	SED	DT	94	87	>100	>100	0.033					
BBOLR	5/30/2013 9:00	SED	DT	94	77	>100	>100	0.005					
HUNWAR	5/30/2013 9:33	SED	DT	94	80	>100	>100	0.013					
TBTMAR	5/30/2013 9:50	SED	DT	94	78	>100	>100	0.005					
UNBJAM	6/19/2013 9:30	SED	DT	95	93	>100	>100	0.49					
LNBHIR	6/19/2013 9:32	SED	DT	95	80	>100	>100	0					
UNBSDC	6/19/2013 10:10	SED	DT	95	84	>100	>100	0.002					
LNBTUB	6/19/2013 10:19	SED	DT	95	80	>100	>100	0.001					
LNBRIN	6/19/2013 11:00	SED	DT	95	79	>100	>100	0.004					
UNBNSB	6/19/2013 11:00	SED	DT	95	84	>100	>100	0.002					
UNBCHB	6/19/2013 11:30	SED	DT	95	95	>100	>100	0.954					

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	BBOLR	BBOLR	HUNBCC	HUNBCC	HUNCRB	HUNCRB	HUNWAR	HUNWAR
	Date	9/19/12	5/30/13	9/19/12	5/30/13	9/19/12	5/30/13	9/19/12	5/30/13
Clay (<2micron)	%	8.9	11.4	3.4	18.2	39.4	34.1	4.1	4.9
Silt+Clay (<63 micron)	%	28.2	26.4	12.9	76.2	91.8	92.2	11.1	13.7
Nitrogen	mg/kg	NC	NC	NC	NC	NC	NC	NC	NC
pH		7.3	7.6	7.4	7.3	7.6	7.4	7.6	7.2
Phosphorus	mg/kg	NC	NC	NC	NC	NC	NC	NC	NC
TOC-S	mg/kg	13300	8290	10600	24900	9070	19000	13100	8930
Chlorinated Herbicides									
2,4'-D	ug/Kg	<320	<310	<280	<360	<310	<370	<330	<350
2,4,5 TP-Silvex	ug/Kg	<320	<310	<280	<360	<310	<370	<330	<350
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	2.2	2	1.3	2.6	2.9	3	1.7	2.9
Be	mg/kg	<0.3	<0.3	<0.3	<0.3	0.31	0.34	<0.3	<0.3
Cd	mg/kg	<0.2	<0.2	<0.2	0.23	<0.2	<0.2	<0.2	<0.2
Cr	mg/kg	11	13	6.2	13	14	15	5.6	10
Cu	mg/kg	16	11	18	37	41	50	16	26
Fe	mg/kg	7300	6000	6300	10000	12000	12000	6500	9200
Hg	ug/kg	16	12	12	21	49	56	15	21
Ni	mg/kg	6	5.8	4.5	9	9.8	9.3	4.2	6.5
Pb	mg/kg	24	15	8.1	13	34	27	8.8	14
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	72	48	64	120	85	100	53	88
Organochlorine Pesticides and PCB Arochlors									
2,4'-DDD	ug/Kg	NR	<22	NR	<23	NR	<25	NR	<20
2,4'-DDE	ug/Kg	NR	<22	NR	<23	NR	<25	NR	<20
2,4'-DDT	ug/Kg	NR	<22	NR	<23	NR	<25	NR	<20
4,4'-DDD	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
4,4'-DDE	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
4,4'-DDT	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Aldrin	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Alpha-BHC	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Beta-BHC	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Chlordane	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
Chlordane-alpha	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Chlordane-gamma	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Delta-BHC	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Dieldrin	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endosulfan I	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endosulfan II	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endosulfan Sulfate	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endrin	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endrin Aldehyde	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Endrin Ketone	ug/Kg	NR	<22	NR	<23	NR	<25	NR	<20
Gamma-BHC	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Heptachlor	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Heptachlor Epoxide	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Methoxychlor	ug/Kg	<23	<22	<22	<23	<21	<25	<23	<20
Mirex	ug/Kg	NR	<22	NR	<23	NR	<25	NR	<20
Toxaphene	ug/Kg	<690	<670	<670	<700	<620	<740	<690	<610
PCB-1016	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1221	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1232	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1242	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1248	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1254	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410
PCB-1260	ug/Kg	<460	<450	<440	<470	<410	<490	<460	<410

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	BBOLR	BBOLR	HUNBCC	HUNBCC	HUNCRB	HUNCRB	HUNWAR	HUNWAR
	Date	9/19/12	5/30/13	9/19/12	5/30/13	9/19/12	5/30/13	9/19/12	5/30/13
Synthetic Pyrethroid Pesticides									
Allethrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
Bifenthrin	ug/Kg	<4.1	<4.7	15	<4.6	<3.8	<4.6	7.4	<4.7
Cyfluthrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
Cypermethrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
Deltamethrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
L-Cyhalothrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
Permethrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
Prallethrin	ug/Kg	<4.1	<4.7	<2.7	<4.6	<3.8	<4.6	<3.2	<4.7
PCB Congeners									
PCB018	ug/Kg	<12	<14	<8.1	NR	<11	<14	<9.5	NR
PCB028	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB044	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB052	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB070	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB077	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB081	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB101	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB105	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB114	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB123	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB126	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB128	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB138	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB153	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB156	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB157	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB169	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB170	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB180	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB187	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB189	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
PCB206	ug/Kg	<12	<14	<8.1	<14	<11	<14	<9.5	<14
Polycyclic Aromatic Hydrocarbons									
(1,2,3-CE)Pyrene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Acenapthene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Acenapthylene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Anthracene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Benzo (A) Anthracene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Benzo (A) Pyrene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Benzo (GHI) Perylene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Benzo(b)Fluoranthene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Chrysene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Fluoranthene	ug/Kg	<48	NC	43	NC	<53	NC	69	NC
Fluorene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Naphthalene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Phenanthrene	ug/Kg	<48	NC	<42	NC	<53	NC	<40	NC
Pyrene	ug/Kg	<48	NC	44	NC	<53	NC	70	NC
1-Methylnaphthalene	ug/Kg	<48	NR	<42	NR	<53	NR	<40	NR
2-Methylnaphthalene	ug/Kg	<48	NR	<42	NR	<53	NR	<40	NR

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	LNBHIR	LNBHIR	LNBHIR	LNBHIR	LNBRIN	LNBTUB	LNBTUB	LNBTUB	LNBTUB
	Date	9/13/12	11/27/12	3/20/13	6/19/13	6/19/13	9/13/12	11/27/12	3/20/13	6/19/13
Clay (<2micron)	%	21.8	16.2	23.1	16.6	7.5	56.9	59.0	54.9	53.4
Silt+Clay (<63 micron)	%	55.9	50.2	71.8	52.6	12.7	92.2	93.4	95.8	90.8
Nitrogen	mg/kg	390	360	390	450	320	540	510	510	400
pH		8.1	7.8	7.3	7.8	8.3	8.1	8	7.6	7.9
Phosphorus	mg/kg	400	420	360	390	260	270	230	220	250
TOC-S	mg/kg	5830	9240	9790	7480	7540	16900	17900	18800	17000
Chlorinated Herbicides										
2,4'-D	ug/Kg	<290	<310	<300	<360	<380	<280	<370	<330	<380
2,4,5 TP-Silvex	ug/Kg	<290	<310	<300	<360	<380	<280	<370	<330	<380
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	2.9	3.2	3.3	3.2	4.7	3	3.5	3.4	3.1
Be	mg/kg	<0.3	0.3	0.31	<0.3	0.3	0.37	0.34	0.36	0.35
Cd	mg/kg	0.39	0.4	0.45	0.38	0.24	0.23	0.21	0.25	<0.2
Cr	mg/kg	8.9	10	12	12	15	12	12	14	15
Cu	mg/kg	22	30	29	26	130	49	64	53	48
Fe	mg/kg	9300	9300	10000	10000	12000	12000	10000	12000	11000
Hg	ug/kg	77	59	68	70	2400	160	130	190	180
Ni	mg/kg	6.4	6.7	7.7	6.9	7.7	7.3	7.4	8.3	7.9
Pb	mg/kg	7.3	8.1	9.1	7.1	25	13	12	14	11
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	52	66	69	63	110	64	76	73	72
Organochlorine Pesticides and PCB A										
2,4'-DDD	ug/Kg	NR	NR	NR	<23	<22	NR	NR	NR	<25
2,4'-DDE	ug/Kg	NR	NR	NR	<23	<22	NR	NR	NR	<25
2,4'-DDT	ug/Kg	NR	NR	NR	<23	<22	NR	NR	NR	<25
4,4'-DDD	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
4,4'-DDE	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
4,4'-DDT	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Aldrin	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Alpha-BHC	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Beta-BHC	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Chlordane	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
Chlordane-alpha	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Chlordane-gamma	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Delta-BHC	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Dieldrin	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endosulfan I	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endosulfan II	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endosulfan Sulfate	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endrin	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endrin Aldehyde	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Endrin Ketone	ug/Kg	NR	NR	NR	<23	<22	NR	NR	NR	<25
Gamma-BHC	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Heptachlor	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Heptachlor Epoxide	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Methoxychlor	ug/Kg	<18	<17	<20	<23	<22	<23	<25	<23	<25
Mirex	ug/Kg	NR	NR	NR	<23	<22	NR	NR	NR	<25
Toxaphene	ug/Kg	<530	<510	<590	<690	<660	<700	<750	<690	<740
PCB-1016	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1221	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1232	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1242	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1248	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1254	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490
PCB-1260	ug/Kg	<350	<340	<390	<460	<440	<470	<500	<460	<490

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	LNBHIR	LNBHIR	LNBHIR	LNBHIR	LNBRIN	LNBTUB	LNBTUB	LNBTUB	LNBTUB
	Date	9/13/12	11/27/12	3/20/13	6/19/13	6/19/13	9/13/12	11/27/12	3/20/13	6/19/13
Synthetic Pyrethroid Pesticides										
Allethrin	ug/Kg	<3.1	8	<4.4	<5	<4.7	<4.5	12	<4.7	<4.5
Bifenthrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
Cyfluthrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
Cypermethrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
Deltamethrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
L-Cyhalothrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
Permethrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
Prallethrin	ug/Kg	<3.1	<4.2	<4.4	<5	<4.7	<4.5	<4.8	<4.7	<4.5
PCB Congeners										
PCB018	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB028	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB044	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB052	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB070	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB077	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB081	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB101	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB105	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB114	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB123	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB126	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB128	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB138	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB153	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB156	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB157	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB169	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB170	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB180	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB187	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB189	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
PCB206	ug/Kg	<9.3	<13	<13	<15	<14	<14	<14	<14	<13
Polycyclic Aromatic Hydrocarbons										
(1,2,3-CE)Pyrene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Acenapthene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Acenapthylene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Anthracene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Benzo (A) Anthracene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Benzo (A) Pyrene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Benzo (GHI) Perylene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Benzo(b)Fluoranthene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Chrysene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Fluoranthene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Fluorene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Naphthalene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Phenanthrene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
Pyrene	ug/Kg	<56	<66	<70	NC	NC	<72	<59	<68	NC
1-Methylnaphthalene	ug/Kg	<56	<66	<70	NR	NR	<72	<59	<68	NR
2-Methylnaphthalene	ug/Kg	<56	<66	<70	NR	NR	<72	<59	<68	NR

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	TBTMAR	TBTMAR	TGDC05	TGDC05
	Date	9/19/12	5/30/13	9/19/12	5/30/13
Clay (<2micron)	%	2.0	3.0	7.6	4.1
Silt+Clay (<63 micron)	%	7.6	7.8	19.0	12.4
Nitrogen	mg/kg	NC	NC	NC	NC
pH		7.3	8.4	7	7.9
Phosphorus	mg/kg	NC	NC	NC	NC
TOC-S	mg/kg	3540	3840	20100	9120
Chlorinated Herbicides					
2,4'-D	ug/Kg	<320	<370	<310	<330
2,4,5 TP-Silvex	ug/Kg	<320	<370	<310	<330
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5
As	mg/kg	1.4	1.7	2.6	2.2
Be	mg/kg	<0.3	<0.3	<0.3	<0.3
Cd	mg/kg	<0.2	<0.2	<0.2	<0.2
Cr	mg/kg	5.8	6.5	8.2	7.8
Cu	mg/kg	4.5	5.1	23	14
Fe	mg/kg	6200	6100	9000	8000
Hg	ug/kg	<10	12	18	21
Ni	mg/kg	4	4.3	6.2	5.4
Pb	mg/kg	3.3	3.6	20	12
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	21	23	94	64
Organochlorine Pesticides and PCB A					
2,4'-DDD	ug/Kg	NR	<17	NR	<22
2,4'-DDE	ug/Kg	NR	<17	NR	<22
2,4'-DDT	ug/Kg	NR	<17	NR	<22
4,4'-DDD	ug/Kg	<23	<17	<23	<22
4,4'-DDE	ug/Kg	<23	<17	<23	<22
4,4'-DDT	ug/Kg	<23	<17	<23	<22
Aldrin	ug/Kg	<23	<17	<23	<22
Alpha-BHC	ug/Kg	<23	<17	<23	<22
Beta-BHC	ug/Kg	<23	<17	<23	<22
Chlordane	ug/Kg	<470	<350	<450	<440
Chlordane-alpha	ug/Kg	<23	<17	<23	<22
Chlordane-gamma	ug/Kg	<23	<17	<23	<22
Delta-BHC	ug/Kg	<23	<17	<23	<22
Dieldrin	ug/Kg	<23	<17	<23	<22
Endosulfan I	ug/Kg	<23	<17	<23	<22
Endosulfan II	ug/Kg	<23	<17	<23	<22
Endosulfan Sulfate	ug/Kg	<23	<17	<23	<22
Endrin	ug/Kg	<23	<17	<23	<22
Endrin Aldehyde	ug/Kg	<23	<17	<23	<22
Endrin Ketone	ug/Kg	NR	<17	NR	<22
Gamma-BHC	ug/Kg	<23	<17	<23	<22
Heptachlor	ug/Kg	<23	<17	<23	<22
Heptachlor Epoxide	ug/Kg	<23	<17	<23	<22
Methoxychlor	ug/Kg	<23	<17	<23	<22
Mirex	ug/Kg	NR	<17	NR	<22
Toxaphene	ug/Kg	<700	<520	<680	<660
PCB-1016	ug/Kg	<470	<350	<450	<440
PCB-1221	ug/Kg	<470	<350	<450	<440
PCB-1232	ug/Kg	<470	<350	<450	<440
PCB-1242	ug/Kg	<470	<350	<450	<440
PCB-1248	ug/Kg	<470	<350	<450	<440
PCB-1254	ug/Kg	<470	<350	<450	<440
PCB-1260	ug/Kg	<470	<350	<450	<440

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	TBTMAR	TBTMAR	TGDC05	TGDC05
	Date	9/19/12	5/30/13	9/19/12	5/30/13
Synthetic Pyrethroid Pesticides					
Allethrin	ug/Kg	<3	<4.1	<3.3	<4.4
Bifenthrin	ug/Kg	9.4	<4.1	<3.3	<4.4
Cyfluthrin	ug/Kg	<3	<4.1	<3.3	<4.4
Cypermethrin	ug/Kg	<3	<4.1	<3.3	<4.4
Deltamethrin	ug/Kg	<3	<4.1	<3.3	<4.4
L-Cyhalothrin	ug/Kg	<3	<4.1	<3.3	<4.4
Permethrin	ug/Kg	<3	<4.1	<3.3	<4.4
Prallethrin	ug/Kg	<3	<4.1	<3.3	<4.4
PCB Congeners					
PCB018	ug/Kg	<9.1	<12	<9.9	<13
PCB028	ug/Kg	<9.1	<12	<9.9	<13
PCB044	ug/Kg	<9.1	<12	<9.9	<13
PCB052	ug/Kg	<9.1	<12	<9.9	<13
PCB070	ug/Kg	<9.1	<12	<9.9	<13
PCB077	ug/Kg	<9.1	<12	<9.9	<13
PCB081	ug/Kg	<9.1	<12	<9.9	<13
PCB101	ug/Kg	<9.1	<12	<9.9	<13
PCB105	ug/Kg	<9.1	<12	<9.9	<13
PCB114	ug/Kg	<9.1	<12	<9.9	<13
PCB123	ug/Kg	<9.1	<12	<9.9	<13
PCB126	ug/Kg	<9.1	<12	<9.9	<13
PCB128	ug/Kg	<9.1	<12	<9.9	<13
PCB138	ug/Kg	<9.1	<12	<9.9	<13
PCB153	ug/Kg	<9.1	<12	<9.9	<13
PCB156	ug/Kg	<9.1	<12	<9.9	<13
PCB157	ug/Kg	<9.1	<12	<9.9	<13
PCB169	ug/Kg	<9.1	<12	<9.9	<13
PCB170	ug/Kg	<9.1	<12	<9.9	<13
PCB180	ug/Kg	<9.1	<12	<9.9	<13
PCB187	ug/Kg	<9.1	<12	<9.9	<13
PCB189	ug/Kg	<9.1	<12	<9.9	<13
PCB206	ug/Kg	<9.1	<12	<9.9	<13
Polycyclic Aromatic Hydrocarbons					
(1,2,3-CE)Pyrene	ug/Kg	<40	NC	<60	NC
Acenapthene	ug/Kg	<40	NC	<60	NC
Acenapthylene	ug/Kg	<40	NC	<60	NC
Anthracene	ug/Kg	<40	NC	<60	NC
Benzo (A) Anthracene	ug/Kg	<40	NC	<60	NC
Benzo (A) Pyrene	ug/Kg	<40	NC	<60	NC
Benzo (GHI) Perylene	ug/Kg	<40	NC	<60	NC
Benzo(b)Fluoranthene	ug/Kg	<40	NC	<60	NC
Chrysene	ug/Kg	<40	NC	<60	NC
Fluoranthene	ug/Kg	<40	NC	<60	NC
Fluorene	ug/Kg	<40	NC	<60	NC
Naphthalene	ug/Kg	<40	NC	<60	NC
Phenanthrene	ug/Kg	<40	NC	<60	NC
Pyrene	ug/Kg	<40	NC	<60	NC
1-Methylnaphthalene	ug/Kg	<40	NR	<60	NR
2-Methylnaphthalene	ug/Kg	<40	NR	<60	NR

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	UNBCHB	UNBCHB	UNBCHB	UNBCHB	UNBJAM	UNBJAM	UNBJAM	UNBJAM
	Date	9/13/12	11/27/12	3/20/13	6/19/13	9/11/12	11/28/12	3/20/13	6/19/13
Clay (<2micron)	%	13.9	3.6	11.6	11.8	48.1	32.3	20.3	37.4
Silt+Clay (<63 micron)	%	31.6	7.0	28.2	29.6	78.4	82.5	62.6	82.8
Nitrogen	mg/kg	550	150	340	370	530	410	380	440
pH		8.2	7.8	7.5	7.8	8.1	7.9	8	8.1
Phosphorus	mg/kg	350	410	290	350	270	240	180	200
TOC-S	mg/kg	7970	2030	6390	6890	18200	23600	25200	23100
Chlorinated Herbicides									
2,4'-D	ug/Kg	<280	<360	<300	<350	<280	<350	<340	<370
2,4,5 TP-Silvex	ug/Kg	<280	<360	<300	<350	<280	<350	<340	<370
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	2.2	1.8	2.3	2.5	2.2	2	1.9	2.4
Be	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cd	mg/kg	0.22	<0.2	0.23	0.24	0.64	0.5	0.52	0.54
Cr	mg/kg	8.4	4.7	8.6	10	9.3	7.8	8.7	11
Cu	mg/kg	27	11	24	27	20	16	17	20
Fe	mg/kg	8500	4400	7700	8500	9900	7500	8000	8900
Hg	ug/kg	44	18	32	50	14	15	15	24
Ni	mg/kg	5.2	2.9	5.4	5.7	7	5.9	6	6.7
Pb	mg/kg	7.2	3.7	6	6.5	6.5	5.1	5.2	5.6
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5	0.83	0.69	0.69	0.63
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	50	25	52	55	70	64	64	71
Organochlorine Pesticides and PCB A									
2,4'-DDD	ug/Kg	NR	NR	NR	<18	NR	NR	NR	<470
2,4'-DDE	ug/Kg	NR	NR	NR	<18	NR	NR	NR	<470
2,4'-DDT	ug/Kg	NR	NR	NR	<18	NR	NR	NR	<470
4,4'-DDD	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
4,4'-DDE	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
4,4'-DDT	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Aldrin	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Alpha-BHC	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Beta-BHC	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Chlordane	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
Chlordane-alpha	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Chlordane-gamma	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Delta-BHC	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Dieldrin	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endosulfan I	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endosulfan II	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endosulfan Sulfate	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endrin	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endrin Aldehyde	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Endrin Ketone	ug/Kg	NR	NR	NR	<18	NR	NR	NR	<470
Gamma-BHC	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Heptachlor	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Heptachlor Epoxide	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Methoxychlor	ug/Kg	<21	<14	<22	<18	<22	<21	<19	<470
Mirex	ug/Kg	NR	NR	NR	<18	NR	NR	NR	<470
Toxaphene	ug/Kg	<620	<430	<660	<550	<660	<630	<570	<14000
PCB-1016	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1221	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1232	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1242	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1248	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1254	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400
PCB-1260	ug/Kg	<410	<290	<440	<370	<440	<420	<380	<9400

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	UNBCHB	UNBCHB	UNBCHB	UNBCHB	UNBJAM	UNBJAM	UNBJAM	UNBJAM
	Date	9/13/12	11/27/12	3/20/13	6/19/13	9/11/12	11/28/12	3/20/13	6/19/13
Synthetic Pyrethroid Pesticides									
Allethrin	ug/Kg	<4.7	13	<4.2	<4.7	<4.8	14	<5	<4.2
Bifenthrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	4.4	<5	<4.2
Cyfluthrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
Cypermethrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
Deltamethrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
L-Cyhalothrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
Permethrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
Prallethrin	ug/Kg	<4.7	<4.3	<4.2	<4.7	<4.8	<4.1	<5	<4.2
PCB Congeners									
PCB018	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB028	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB044	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB052	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB070	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB077	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB081	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB101	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB105	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB114	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB123	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB126	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB128	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB138	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB153	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB156	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB157	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB169	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB170	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB180	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB187	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB189	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
PCB206	ug/Kg	<14	<13	<13	<14	<14	<12	<15	<12
Polycyclic Aromatic Hydrocarbons									
(1,2,3-CE)Pyrene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Acenapthene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Acenapthylene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Anthracene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Benzo (A) Anthracene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Benzo (A) Pyrene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Benzo (GHI) Perylene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Benzo(b)Fluoranthene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Chrysene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Fluoranthene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Fluorene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Naphthalene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Phenanthrene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
Pyrene	ug/Kg	<67	<52	<50	NC	<70	<61	<68	NC
1-Methylnaphthalene	ug/Kg	<67	<52	<50	NR	<70	<61	<68	NR
2-Methylnaphthalene	ug/Kg	<67	<52	<50	NR	<70	<61	<68	NR

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	UNBNSB	UNBNSB	UNBNSB	UNBNSB	UNBSDC	UNBSDC	UNBSDC	UNBSDC
	Date	9/11/12	11/28/12	3/20/13	6/19/13	9/11/12	11/28/12	3/20/13	6/19/13
Clay (<2micron)	%	14.2	10.0	12.9	2.9	23.6	24.2	28.7	33.8
Silt+Clay (<63 micron)	%	31.9	22.6	31.2	6.8	59.5	60.9	73.1	79.8
Nitrogen	mg/kg	710	340	540	230	710	440	640	620
pH		8.2	7.8	7.6	7.9	8	7.7	8	7.9
Phosphorus	mg/kg	340	320	290	710	320	240	270	260
TOC-S	mg/kg	9030	9370	8630	2180	23900	28300	26700	21000
Chlorinated Herbicides									
2,4'-D	ug/Kg	<300	<350	<290	<370	<300	<370	<300	<370
2,4,5 TP-Silvex	ug/Kg	<300	<350	<290	<370	<300	<370	<300	<370
Ag	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	mg/kg	1.9	2.3	2.2	2.1	2.6	2.8	3	2.6
Be	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Cd	mg/kg	0.24	0.24	0.22	<0.2	0.49	0.45	0.48	0.35
Cr	mg/kg	7.6	8.7	8.6	6.1	10	9.5	11	12
Cu	mg/kg	23	29	25	14	33	34	34	30
Fe	mg/kg	7700	7600	7600	5200	10000	8500	9300	9700
Hg	ug/kg	27	29	26	28	25	31	32	39
Ni	mg/kg	4.8	5.7	5.2	3.4	7.4	6.6	7.1	6.9
Pb	mg/kg	6.4	6.6	6.3	3.5	11	10	10	8
Sb	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Se	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tl	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zn	mg/kg	50	61	53	33	88	100	110	75
Organochlorine Pesticides and PCB A									
2,4'-DDD	ug/Kg	NR	NR	NR	<17	NR	NR	NR	<22
2,4'-DDE	ug/Kg	NR	NR	NR	<17	NR	NR	NR	<22
2,4'-DDT	ug/Kg	NR	NR	NR	<17	NR	NR	NR	<22
4,4'-DDD	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
4,4'-DDE	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
4,4'-DDT	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Aldrin	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Alpha-BHC	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Beta-BHC	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Chlordane	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
Chlordane-alpha	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Chlordane-gamma	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Delta-BHC	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Dieldrin	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endosulfan I	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endosulfan II	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endosulfan Sulfate	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endrin	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endrin Aldehyde	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Endrin Ketone	ug/Kg	NR	NR	NR	<17	NR	NR	NR	<22
Gamma-BHC	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Heptachlor	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Heptachlor Epoxide	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Methoxychlor	ug/Kg	<20	<13	<23	<17	<22	<15	<23	<22
Mirex	ug/Kg	NR	NR	NR	<17	NR	NR	NR	<22
Toxaphene	ug/Kg	<600	<390	<700	<520	<650	<460	<700	<670
PCB-1016	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1221	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1232	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1242	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1248	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1254	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450
PCB-1260	ug/Kg	<400	<260	<470	<350	<430	<300	<470	<450

Table 14: Benthic Sediment Chemistry at Harbors, Estuaries, and Marshes Sites: 2012-13

	Site	UNBNSB	UNBNSB	UNBNSB	UNBNSB	UNBSDC	UNBSDC	UNBSDC	UNBSDC
	Date	9/11/12	11/28/12	3/20/13	6/19/13	9/11/12	11/28/12	3/20/13	6/19/13
Synthetic Pyrethroid Pesticides									
Allethrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	12	<4.1	<4.8
Bifenthrin	ug/Kg	<3.3	<2.6	<4.3	<4	4.4	<3.3	<4.1	<4.8
Cyfluthrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
Cypermethrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
Deltamethrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
L-Cyhalothrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
Permethrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
Prallethrin	ug/Kg	<3.3	<2.6	<4.3	<4	<3.6	<3.3	<4.1	<4.8
PCB Congeners									
PCB018	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB028	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB044	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB052	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB070	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB077	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB081	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB101	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB105	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB114	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB123	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB126	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB128	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB138	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB153	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB156	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB157	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB169	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB170	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB180	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB187	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB189	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
PCB206	ug/Kg	<9.8	<7.8	<13	<12	<11	<9.8	<12	<14
Polycyclic Aromatic Hydrocarbons									
(1,2,3-CE)Pyrene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Acenapthene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Acenapthylene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Anthracene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Benzo (A) Anthracene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Benzo (A) Pyrene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Benzo (GHI) Perylene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Benzo(b)Fluoranthene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Chrysene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Fluoranthene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Fluorene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Naphthalene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Phenanthrene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
Pyrene	ug/Kg	<66	<48	<66	NC	<55	<47	<67	NC
1-Methylnaphthalene	ug/Kg	<66	<48	<66	NR	<55	<47	<67	NR
2-Methylnaphthalene	ug/Kg	<66	<48	<66	NR	<55	<47	<67	NR

Table 15: SQO Matrix for Evaluating Benthic Habitat at Harbors, Estuaries, Marshes Sites: 2012-13

Chemistry

Station ID	BBOLR	HUNBCC	HUNCRB	HUNWAR	TGDC05	TBTMAR
CA LRM value	0.96	0.94	0.99	0.96	0.96	0.93
CA LRM category	High Exposure	High Exposure	High Exposure	High Exposure	High Exposure	High Exposure
CSI value	2.12	2.12	2.27	2.12	2.12	2.12
CSI category	Low Exposure	Low Exposure	Low Exposure	Low Exposure	Low Exposure	Low Exposure
Integrated Chemistry Indicator	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure

Toxicity

Test Method 1	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day
Toxicity Category	Low Toxicity	Low Toxicity	Nontoxic	Moderate Toxicity	Nontoxic	Nontoxic
Test Method 2	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI
Toxicity Category	Low Toxicity	Nontoxic	Nontoxic	Nontoxic	Low Toxicity	Nontoxic
Integrated Toxicity Indicator	Low Toxicity	Low Toxicity	Nontoxic	Low Toxicity	Low Toxicity	Nontoxic

Benthos

BRI Score	59.6	48.6	55.7	50.5	63.3	55.9
BRI Category	Moderate Disturbance	Low Disturbance	Moderate Disturbance	Moderate Disturbance	Moderate Disturbance	Moderate Disturbance
IBI Score	0	1	1	0	0	0
IBI Category	Reference	Low Disturbance	Low Disturbance	Reference	Reference	Reference
RBI Score	0.19	0.2	0.08	0.22	0.22	0.1
RBI Category	Low Disturbance	Low Disturbance	High Disturbance	Low Disturbance	Low Disturbance	Moderate Disturbance
RIVPACS Score	0.81356	1.11948	0.76435	0.82789	0.83701	0.4668
RIVPACS Category	Low Disturbance	Low Disturbance	Low Disturbance	Low Disturbance	Low Disturbance	Moderate Disturbance
Integrated Benthic Indicator	Low Disturbance	Low Disturbance	Moderate Disturbance	Low Disturbance	Low Disturbance	Moderate Disturbance
Station Assessment	Possibly impacted	Possibly impacted	Possibly impacted	Possibly impacted	Possibly impacted	Possibly impacted

Chemistry

Station ID	LNBHIR	LNBTUB	UNBCHB	UNBJAM	UNBNSB	UNBSDC
CA LRM value	0.99	1	0.99	0.95	0.98	0.98
CA LRM category	High Exposure	High Exposure	High Exposure	High Exposure	High Exposure	High Exposure
CSI value	2.12	2.12	2.12	2.12	2.12	2.12
CSI category	Low Exposure	Low Exposure	Low Exposure	Low Exposure	Low Exposure	Low Exposure
Integrated Chemistry Indicator	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure	Moderate Exposure

Toxicity

Test Method 1	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day	Eohaustorius 10-day
Toxicity Category	Moderate Toxicity	Nontoxic	Nontoxic	Nontoxic	Nontoxic	Nontoxic
Test Method 2	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI	Mytilus SWI
Toxicity Category	Nontoxic	Nontoxic	Nontoxic	Nontoxic	Nontoxic	Nontoxic
Integrated Toxicity Indicator	Low Toxicity	Nontoxic	Nontoxic	Nontoxic	Nontoxic	Nontoxic

Benthos

BRI Score	37.6	52	44.6	x	51.6	57.8
BRI Category	Reference	Moderate Disturbance	Low Disturbance	Insufficient Data	Moderate Disturbance	Moderate Disturbance
IBI Score	0	0	1	x	1	1
IBI Category	Reference	Reference	Low Disturbance	Insufficient Data	Low Disturbance	Low Disturbance
RBI Score	0.21	0.07	0.17	x	0.12	0.05
RBI Category	Low Disturbance	High Disturbance	Low Disturbance	Insufficient Data	Moderate Disturbance	High Disturbance
RIVPACS Score	0.39514	0.23229	0.4714	x	0.9257	0.74202
RIVPACS Category	Moderate Disturbance	High Disturbance	Moderate Disturbance	Insufficient Data	Reference	Moderate Disturbance
Integrated Benthic Indicator	Low Disturbance	High Disturbance	Low Disturbance	Insufficient Data	Moderate Disturbance	Moderate Disturbance
Station Assessment	Possibly impacted	Possibly impacted	Unimpacted	Insufficient Data	Possibly impacted	Possibly impacted

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

Criterion	Site Name	Date	Time	Watershed	Physicals									Chemical									
					Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^0C	NTU	^0C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
T	ANACIT@B01	5/1/2013	08:55	SGR/CC	0.399	179.1	10.41	869	8.35	18.74	3.06	22	250	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	3.27
T	ANACIT@B01	6/4/2013	08:30	SGR/CC	0.043	19.3	9.47	1187	8.34	18.24	3.62	21	370	0.1	4.2	0.37	0.96	0.04	34	<5	0.2	0.05	7.28
T	ANACIT@B01	7/9/2013	08:35	SGR/CC	0.010	4.488	8.32	1232	8.32	21.35	1.88	27	370	0.1	2	0.39	0.79	0.06	7	<5	0.2	0.05	10.1
T	ANACIT@B01	8/5/2013	08:25	SGR/CC	0.028	12.57	8.38	1140	8.39	19.41	1.96	21	410	0.1	3.1	0.3	0.9	0.05	<5	<5	0.2	0.05	7.85
T	ANACIT@B01	9/9/2013	08:20	SGR/CC	0.062	27.83	8.72	1295	8.28	22.19	3.86	23	390	0.1	2.2	0.25	1.33	0.03	6	<5	0.2	0.05	14.7
T	ANAE02@LAPAL	5/1/2013	07:10	SAR	0.092	41.29	9.78	1103	8.17	18.22	1.59	18	350	0.21	3.9	0.34	0.9	0.03	<5	<5	0.2	0.05	5.05
T	ANAE02@LAPAL	6/4/2013	07:15	SAR	0.342	153.5	8.57	1094	8.18	20.45	3.42	20	365	0.1	3.6	0.35	0.45	0.04	<5	<5	0.2	0.05	4.21
T	ANAE02@LAPAL	7/9/2013	07:12	SAR	0.365	163.8	7.17	1167	8.17	22.57	5.95	22	320	0.1	3.1	0.39	1.04	0.04	<5	<5	0.2	0.05	9.29
T	ANAE02@LAPAL	8/5/2013	07:15	SAR	0.422	189.4	8.01	1124	8.2	21.48	2.04	19	430	0.1	2.4	0.25	0.94	0.04	<5	<5	0.2	0.05	4.44
T	ANAE02@LAPAL	9/9/2013	07:11	SAR	0.429	192.5	11.81	1128	8.16	23.52	3.24	21	310	0.1	2.6	0.25	0.63	0.03	<5	<5	0.2	0.05	4.1
T	ANAE12@ E01	5/1/2013	10:40	SAR	0.348	156.2	10.77	1115	8.14	18.25	4.06	24	355	0.1	3	0.25	0.38	0.03	<5	<5	0.2	0.05	4.7
T	ANAE12@ E01	6/4/2013	09:40	SAR	0.769	345.2	7.51	1062	7.99	19.64	1.43	21	350	0.1	4.9	0.28	1.02	0.03	<5	<5	0.2	0.05	6.17
T	ANAE12@ E01	7/9/2013	10:38	SAR	3.000	1346	7.31	984	8.04	21.77	5.28	30	370	0.1	5.2	0.25	0.54	0.05	54	<5	0.2	0.05	3.19
T	ANAE12@ E01	8/5/2013	10:56	SAR	0.464	208.3	7.01	1124	8.01	21.28	5	26	355	0.1	2.1	0.31	0.77	0.05	5	<5	0.2	0.05	8.01
T	ANAE12@ E01	9/9/2013	09:30	SAR	0.353	158.4	6.29	1123	8.07	22.3	1.98	27	360	0.1	3	0.25	0.8	0.03	<5	<5	0.2	0.05	7.4
R	ANAHGC03	6/10/2013	07:25	AB/HH/BB	0.553	248.2	8.2	997	8.21	22.63	1.41	20	325	0.1	2.9	0.25	0.49	0.03	<5	<5	0.2	0.05	2.23
R	ANAHGC03	7/9/2013	09:33	AB/HH/BB	0.209	93.81	9.25	1231	8.44	24.74	1.38	29	385	0.1	3.2	0.31	1.04	0.06	<5	<5	0.2	0.05	7.53
R	ANAHGC03	8/29/2013	07:40	AB/HH/BB	0.118	52.96	6.39	1162	8.37	25.01	1.53	26	385	0.1	2.2	0.25	0.74	0.05	<5	<5	0.2	0.05	7.62
T	BRRC@I-90	5/21/2013	07:25	SGR/CC	0.044	19.75	5.28	795	7.65	18.4	3.19	20	260	0.42	2	0.45	1.04	0.03	<5	<5	0.2	0.05	13.6
T	BRRC@I-90	6/25/2013	07:30	SGR/CC	0.078	35.01	5.78	621	7.41	19.56	**28.3**	20	255	**2.05**	2.4	0.25	2.05	**0.34**	18	**110**	0.2	0.05	12.3
T	BRRC@I-90	7/18/2013	07:38	SGR/CC	PONDED		**4.63**	808	7.46	18.47	3.83	20	315	**1.39**	3	0.35	1.65	0.03	51	**16**	0.2	0.05	8.77
T	BRRC@I-90	8/20/2013	07:30	SGR/CC	PONDED		**1.88**	1027	**7.15**	20.01	4.36	21	195	0.6	2	0.45	1.5	0.03	24	**6**	0.2	0.05	7.43
T	BRRC@I-90	9/17/2013	07:25	SGR/CC	0.011	4.937	**4.64**	703	7.55	20.23	3.85	20	200	0.51	3	0.25	1.51	0.03	18	<5	0.2	0.05	3.9
NS	CMFWD03INLET	5/30/2013	08:31	SAR	0.500	224.4	12.48	687	**8.7**	22.27	0.92	20	320	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	5.62
NS	CMFWD03INLET	7/3/2013	07:50	SAR	0.500	224.4	7.46	1629	8.14	24.98	2.3	22	350	0.1	2	0.25	0.31	0.09	<5	<5	0.2	0.05	5.54
NS	CMFWD03INLET	7/30/2013	07:34	SAR	DRY																		
NS	CMFWD03INLET	8/22/2013	07:45	SAR	DRY																		
NS	CMFWD03INLET	9/23/2013	07:50	SAR	0.5	224.4	5.03	1345	**7.08**	21.86	3.19	20	320	0.1	2	0.25	2.12	0.05	7	<5	0.2	0.05	5.19
NS	CMFWPONDC	5/30/2013	08:55	SAR	PONDED		7.9	1365	8.23	24.55	3.18	23	360	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	6.62
NS	CMFWPONDC	7/3/2013	09:00	SAR	PONDED		8.02	1773	**8.52**	**26.24**	1.69	23	345	0.1	2	0.28	0.3	0.05	6	<5	0.2	0.05	6.35
NS	CMFWPONDC	7/30/2013	07:54	SAR	PONDED		8.47	1526	**8.49**	25.1	1.15	21	255	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	5.87
NS	CMFWPONDC	8/22/2013	08:04	SAR	PONDED		10.07	1612	8.31	24.68	1	24	325	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	6.82
NS	CMFWPONDC	9/23/2013	08:54	SAR	PONDED		9.74	1575	8.31	22.59	1.49	24	305	0.1	2	0.25	0.3	0.09	19	<5	0.2	0.05	6.77
NS	CMFWPONDE	5/30/2013	10:05	SAR	PONDED		8.73	1754	8.42	24.77	6.06	25	835	0.1	2	0.25	0.3	0.05	5	<5	0.2	0.05	8.93
NS	CMFWPONDE	7/3/2013	10:07	SAR	PONDED		11.62	2605	**9.49**	25.08	2.21	25	325	0.1	2	0.25	0.24	0.05	<5	<5	0.2	0.05	11.3
NS	CMFWPONDE	7/30/2013	08:54	SAR	PONDED		12.47	1459	**9.32**	23.41	1.63	22	225	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	6.33
NS	CMFWPONDE	8/22/2013	09:08	SAR	PONDED		13.68	1575	**8.66**	23.67	1.25	28	285	0.1	2	0.3	0.3	0.05	15	<5	0.2	0.05	6.63

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

Criterion	Site Name	Date	Time	Watershed	Physicals									Chemical									
					Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^0C	NTU	^0C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
NS	CMFWPONDE	9/23/2013	10:00	SAR	0.201	90.21	10.68	1537	**8.48**	21.26	0.68	29	275	0.1	2	0.25	0.3	0.03	<5	<5	0.2	0.05	6.05
T	COC01S01@MT	5/20/2013	07:48	AB/HH/BB	0.008	3.591	8.59	548	8.08	20.74	5.47	21	125	0.36	2	0.26	0.87	0.03	74	<5	0.2	0.05	13.7
T	COC01S01@MT	6/24/2013	07:40	AB/HH/BB	0.012	5.386	7.83	647	7.96	21.3	9.57	20	145	0.37	2	**0.68**	1.48	0.03	20	<5	0.2	0.05	**21.4**
T	COC01S01@MT	7/17/2013	09:00	AB/HH/BB	0.003	1.346	7.96	582	7.86	23.52	6.65	26	195	**0.83**	2	**1.36**	2.18	0.03	18	<5	0.2	0.05	**18.4**
T	COC01S01@MT	8/21/2013	07:46	AB/HH/BB	0.002	0.898	6.79	589	7.68	21.8	4.03	21	145	0.1	2	0.34	0.92	0.03	**234**	<5	0.2	0.05	**22.1**
T	COC01S01@MT	9/10/2013	07:33	AB/HH/BB	DRY																		
R	COC01S03	6/12/2013	10:50	AB/HH/BB	0.079	35.46	8.77	435	8.45	22.38	0.82	21	65	0.1	2	0.25	0.3	0.03	<5	<5	0.2	0.05	0.91
R	COC01S03	7/17/2013	07:50	AB/HH/BB	0.085	38.15	7.7	847	8.34	23.2	2.57	24	165	0.1	2	0.25	0.58	0.05	<5	<5	0.2	0.05	3.33
R	COC01S03	8/27/2013	07:39	AB/HH/BB	0.143	64.18	6.8	473	8.28	23.39	1.02	23	45	0.1	2	0.25	0.3	0.03	<5	<5	0.2	0.05	1.53
T	COF07S01	5/22/2013	08:38	NB	0.078	35.01	9.83	1158	8.34	18.61	3.32	23	322	0.1	3	0.25	1	0.03	5	<5	0.2	0.05	7.65
T	COF07S01	6/26/2013	08:45	NB	0.099	44.43	10.47	1257	8.3	21.08	2.8	24	345	0.1	2.7	0.25	1	0.05	6	<5	0.2	0.05	9.2
T	COF07S01	7/22/2013	09:44	NB	0.169	75.85	6.21	1254	8.46	22.19	2.99	25	320	0.1	2	0.25	1.23	0.06	<5	<5	0.2	0.05	8.95
T	COF07S01	8/14/2013	09:50	NB	0.072	32.32	8.89	1431	8.28	22.3	5.15	24	310	0.1	2.9	0.27	1.22	0.07	17	**20**	0.2	0.05	10.8
T	COF07S01	9/11/2013	08:31	NB	0.218	97.84	6.32	1267	8.27	21.44	2.63	22	365	0.1	1.4	0.25	1.13	0.03	<5	<5	0.2	0.05	9.48
R	COF13@FH	6/5/2013	09:30	NB	0.156	70.02	9.37	1255	8.27	19.5	2.24	22	580	0.1	4	0.25	0.42	0.04	<5	<5	0.2	0.05	3.7
R	COF13@FH	7/10/2013	07:46	NB	0.344	154.4	8.73	1458	8.26	21.7	3.45	24	480	0.1	2.5	0.25	0.5	0.06	10	<5	0.2	0.05	4.34
R	COF13@FH	8/28/2013	08:43	NB	0.226	101.4	7.21	1530	8.13	22.32	3.95	28	520	0.33	2	0.25	1.59	0.03	<5	<5	0.2	0.05	**22.3**
R	CYPB00P01	6/12/2013	09:20	SGR/CC	0.163	73.16	8.57	632	8.14	20.31	0.93	20	210	0.1	3.2	0.21	0.74	0.03	<5	<5	0.2	0.05	2.93
R	CYPB00P01	7/31/2013	07:35	SGR/CC	0.021	9.425	7.12	652	8.1	21.44	1.37	21	195	0.1	1.1	0.25	0.98	0.04	<5	<5	0.2	0.05	3.56
R	CYPB00P01	8/27/2013	08:47	SGR/CC	0.005	2.244	7.28	531	8.08	21.53	0.9	25	165	0.1	2	0.25	0.65	0.04	<5	<5	0.2	0.05	3.47
NS	CYPB0178@VL	6/3/2013	11:05	SGR/CC	0.011	4.937	8.2	3349	8.34	19.62	2.89	22	425	0.1	5.2	0.25	1.08	**0.15**	<5	<5	0.2	0.05	10.2
NS	CYPB0178@VL	7/8/2013	07:46	SGR/CC	0.049	21.99	7.78	3240	8.31	20.61	1.68	21	395	0.1	5.2	0.25	1.71	0.09	<5	<5	0.2	0.05	10.2
NS	CYPB0178@VL	7/31/2013	08:40	SGR/CC	0.023	10.32	6.06	3306	8.25	20.01	3.61	21	445	0.17	4.4	0.25	1.49	0.08	<5	<5	0.2	0.05	**17.4**
NS	CYPB0178@VL	8/21/2013	08:55	SGR/CC	0.041	18.4	7.74	2733	8.28	20.67	1.92	23	325	0.1	2.2	0.25	1.13	0.04	<5	<5	0.2	0.05	13.5
NS	CYPB0178@VL	9/18/2013	07:29	SGR/CC	0.024	10.77	8.54	3244	8.23	20.95	3.43	20	345	0.13	3.1	0.25	1.64	0.05	8	<5	0.2	0.05	8.77
T	CYPSTANT@VV	6/3/2013	07:40	SGR/CC	0.001	0.449	8.13	697	7.97	19.76	7.84	20	380	0.1	3	**0.85**	0.49	0.03	<5	<5	0.2	0.05	16.9
T	CYPSTANT@VV	7/8/2013	09:06	SGR/CC	0.001	0.449	7.33	1288	8.08	22.08	6.33	24	330	0.29	2.3	0.25	1.16	0.06	**154**	<5	0.2	0.05	8.29
T	CYPSTANT@VV	7/31/2013	09:38	SGR/CC	DRY																		
T	CYPSTANT@VV	8/21/2013	09:56	SGR/CC	DRY																		
T	CYPSTANT@VV	9/18/2013	08:39	SGR/CC	DRY																		
T	FULA03S05	5/20/2013	09:45	SGR/CC	0.888	398.6	14.23	758	**9.22**	23.71	3	26	195	0.1	2	0.37	0.3	0.03	<5	<5	0.2	0.05	5.01
T	FULA03S05	6/24/2013	09:50	SGR/CC	0.011	4.937	16.15	932	**9.63**	21.17	3.25	21	265	0.1	2	0.39	0.3	0.05	<5	<5	0.2	0.05	**18.1**
T	FULA03S05	7/17/2013	11:00	SGR/CC	0.003	1.346	8.66	943	**10.86**	**31.3**	4.1	31	270	0.1	2	0.25	0.3	0.05	7	<5	0.2	0.05	15.9
T	FULA03S05	8/13/2013	07:34	SGR/CC	0.09	40.39	9.03	1015	8.19	20.85	2.45	19	305	0.1	2	0.25	0.3	0.03	5	<5	0.2	0.05	8.22
T	FULA03S05	9/10/2013	08:19	SGR/CC	DRY																		
T	FULB01@SCO	5/20/2013	10:50	SGR/CC	29.091	13057	10.72	860	**8.7**	23.53	1.36	30	250	0.1	2	0.25	0.42	0.03	<5	<5	0.2	0.05	3.4
T	FULB01@SCO	6/24/2013	10:58	SGR/CC	0.386	173.2	13.31	1039	**8.92**	20.73	5.46	23	255	0.1	2	0.44	0.39	0.09	7	<5	0.2	0.05	13.8

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Physicals									Chemical									
Criterion	Site Name	Date	Time	Watershed	Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^0C	NTU	^0C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
T	FULB01@SCO	7/17/2013	12:15	SGR/CC	0.378	169.7	14.21	977	**9.33**	**25.92**	4.38	34	215	0.1	2	0.3	0.4	0.07	<5	<5	0.2	0.05	10.2
T	FULB01@SCO	8/13/2013	08:41	SGR/CC	43.2	19389	8.54	1143	**8.67**	24.51	2.01	22	280	0.1	2	0.25	1.47	0.04	<5	<5	0.2	0.05	3.8
T	FULB01@SCO	9/10/2013	08:35	SGR/CC	0.811	364	7.2	1562	8.17	20.83	4.11	23	355	0.34	2.6	0.25	0.32	0.03	<5	<5	0.2	0.05	10.9
T	FVES@D05	5/15/2013	09:45	SAR	0.555	249.1	8.29	1826	8.02	20.71	0.63	25	455	0.1	**7.9**	0.25	0.45	0.04	<5	<5	0.2	0.05	3.74
T	FVES@D05	6/13/2013	09:35	SAR	0.471	211.4	8.56	1861	7.97	21.54	0.64	23	470	0.1	**8**	0.26	0.6	0.05	<5	<5	0.2	0.05	5.18
T	FVES@D05	7/11/2013	11:30	SAR	0.324	145.4	8.32	1874	8.04	23.21	1.03	27	465	0.1	**7.8**	0.25	0.62	0.1	<5	<5	0.2	0.05	5.18
T	FVES@D05	8/8/2013	09:23	SAR	0.362	162.5	9.53	1539	7.98	22.3	0.56	23	365	0.1	**6.9**	0.25	0.43	0.05	<5	<5	0.2	0.05	3.21
T	FVES@D05	9/5/2013	09:35	SAR	0.495	222.2	5.47	1661	7.98	24.08	0.84	31	395	0.1	**6.7**	0.25	0.7	0.05	<5	<5	0.2	0.05	3.96
R	GGC04@MAL	6/6/2013	07:40	AB/HH/BB	0.107	48.02	8.32	711	8.07	18.48	1.22	20	420	0.1	2.9	0.25	0.63	0.03	<5	<5	0.2	0.05	5.44
R	GGC04@MAL	8/5/2013	09:39	AB/HH/BB	0.041	18.4	6.75	1142	8.02	19.91	1.67	22	380	0.1	2.1	0.25	0.94	0.04	<5	<5	0.2	0.05	5.35
R	GGC04@MAL	9/26/2013	10:43	AB/HH/BB	0.616	276.5	8.16	1019	8.14	21.59	**241**	24	315	0.2	2.9	0.25	0.38	0.03	**159**	<5	0.2	0.05	5.34
NS	GGSHAN84@CHP	6/3/2013	09:20	AB/HH/BB	0.004	1.795	5.85	1288	8.42	20.6	6.31	22	410	**1.55**	3	0.45	2.24	0.03	50	<5	0.2	0.05	14.9
NS	GGSHAN84@CHP	7/8/2013	10:25	AB/HH/BB	0.002	0.898	7.56	1851	8.47	21.71	2.62	26	625	0.1	4.8	0.4	1.78	0.08	17	<5	0.2	0.05	14.1
NS	GGSHAN84@CHP	7/31/2013	10:10	AB/HH/BB	0.004	1.795	6.33	1213	8.42	20.21	7.47	22	425	0.11	4.7	0.31	1.37	0.03	**287**	<5	0.2	0.05	6.48
NS	GGSHAN84@CHP	8/21/2013	10:27	AB/HH/BB	DRY																		
NS	GGSHAN84@CHP	9/18/2013	09:12	AB/HH/BB	0.002	0.898	6.07	1192	8.35	21.85	8.87	23	370	0.24	3.9	0.32	1.25	0.03	16	<5	0.2	0.05	6.2
T	HBC05S04@BRG	5/29/2013	10:12	AB/HH/BB	PONDED		9.55	2200	7.64	24.5	12.1	25	1000	0.1	0.2	0.25	0.3	**0.3**	14	<5	0.2	0.05	7.58
T	HBC05S04@BRG	7/2/2013	10:11	AB/HH/BB	PONDED		9.33	2699	7.79	24.87	5.06	25	230	0.1	2	0.25	0.3	0.12	6	<5	0.2	0.05	4.74
T	HBC05S04@BRG	7/29/2013	09:52	AB/HH/BB	PONDED		12.04	**3881**	7.77	24.39	13.4	24	**1065**	0.1	2	0.39	0.3	0.14	10	<5	0.2	0.05	6.18
T	HBC05S04@BRG	8/26/2013	10:25	AB/HH/BB	PONDED		6.08	**4199**	7.62	24.6	16.1	25	990	0.14	2	0.25	0.3	**0.24**	12	<5	0.2	0.05	7.25
T	HBC05S04@BRG	9/24/2013	09:18	AB/HH/BB	PONDED		7.06	**4264**	7.54	23.22	5.31	26	**1150**	0.1	2	0.25	0.3	**0.19**	8	<5	0.2	0.05	6.24
R	HBMC@C05	5/29/2013	08:50	AB/HH/BB	0.562	252.2	12.47	1611	8.14	20.04	4.2	24	650	0.1	2	0.25	0.3	0.04	<5	<5	0.2	0.05	14.4
R	HBMC@C05	7/29/2013	08:49	AB/HH/BB	0.433	194.3	11.34	1897	8.08	20.26	11.7	22	675	0.13	2	0.25	0.3	0.1	13	<5	0.2	0.05	**17.8**
R	HBMC@C05	8/26/2013	09:00	AB/HH/BB	0.205	92.01	7.6	1971	7.97	20.52	13.5	25	710	**0.71**	2	0.3	0.7	0.03	14	<5	0.2	0.05	**17.7**
NS	HBMC@HEIL	5/29/2013	07:40	AB/HH/BB	0.352	158	8.03	1859	7.74	18.81	4.01	20	725	0.13	2	0.25	0.3	0.05	6	<5	0.2	0.05	14.1
NS	HBMC@HEIL	7/2/2013	09:05	AB/HH/BB	0.710	318.7	10.5	1088	8.01	21.77	2.79	24	425	0.1	2.1	0.25	0.67	0.04	<5	<5	0.2	0.05	2.26
NS	HBMC@HEIL	7/29/2013	07:38	AB/HH/BB	0.362	162.5	6.36	1970	7.77	19.5	13.2	20	200	**1.18**	2	0.26	0.3	0.05	7	<5	0.2	0.05	**18.8**
NS	HBMC@HEIL	8/26/2013	07:48	AB/HH/BB	0.519	232.9	**3.84**	2117	7.74	19.49	2.11	24	765	**2.11**	2	0.25	0.52	0.03	17	<5	0.2	0.05	**17.9**
NS	HBMC@HEIL	9/24/2013	07:49	AB/HH/BB	0.32	143.6	7.88	2141	**9.62**	17.66	9.86	21	700	**3.5**	2	0.25	0.75	0.03	<5	<5	0.2	0.05	14
R	IRVF05P07	6/10/2013	10:30	NB	0.095	42.64	5.01	1484	7.66	19.39	9.08	25	390	**2.59**	**10.5**	0.48	**6.05**	0.11	<5	<5	0.2	0.05	11.1
R	IRVF05P07	7/24/2013	09:55	NB	0.047	21.1		620	8.18	**26.18**	3.54	25	130	0.39	2	0.31	0.44	**0.25**	<5	<5	0.2	0.05	3.31
R	IRVF05P07	8/29/2013	10:17	NB	0.038	17.06	5.25	953	7.83	23.59	6.19	39	245	0.25	2	0.25	1.45	0.03	<5	<5	0.2	0.05	4.31
R	IRVF05TBN1	6/17/2013	08:10	NB	0.011	4.937	8.45	**8120**	**7.01**	19.39	1.68	19	**1810**	0.1	2.9	0.25	1.24	0.04	<5	<5	0.2	0.05	10.5
R	IRVF05TBN1	8/1/2013	07:48	NB	0.017	7.63	9.8	**5510**	**7.09**	20.11	**19.7**	20	**1245**	0.08	3	0.25	1.61	0.05	16	<5	0.2	0.05	8.07
R	IRVF05TBN1	9/25/2013	07:50	NB	0.015	6.732	6.78	**5635**	**7.1**	20.71	2.65	21	**1080**	0.1	2.3	0.25	1.86	0.04	<5	<5	0.2	0.05	8.76
T	IRVF05TBN2	5/28/2013	10:20	NB	0.260	116.7	7.51	3184	7.46	23.25	0.23	25	935	0.1	**18.6**	0.25	0.36	0.04	<5	<5	0.2	0.05	2.03
T	IRVF05TBN2	7/1/2013	10:01	NB	0.238	106.8	6.32	3101	7.33	23.83	0.3	25	925	0.1	**17**	0.25	0.61	0.06	<5	<5	0.2	0.05	1.99

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Physicals									Chemical									
Criterion	Site Name	Date	Time	Watershed	Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^0C	NTU	^0C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
T	IRVF05TBN2	7/25/2013	09:35	NB	0.219	98.29		3210	7.49	23.48	0.3	24	940	0.1	**18.2**	0.25	1.78	0.05	<5	<5	0.2	0.05	2.03
T	IRVF05TBN2	8/15/2013	10:01	NB	0.331	148.6	6.76	3108	7.45	24.24	0.3	26	850	0.1	**17.7**	0.25	0.66	0.03	<5	<5	0.2	0.05	2.07
T	IRVF05TBN2	9/12/2013	10:20	NB	0.378	169.7	NR	3172	7.27	24.55	0.52	28	415	0.1	**17.9**	0.25	0.39	0.03	<5	<5	0.2	0.05	0.76
T	IRVF06P06	5/28/2013	09:15	NB	0.035	15.71	7.21	**9147**	8.03	19.79	1.48	22	**1660**	0.1	2	0.35	0.88	0.04	<5	<5	0.2	0.05	9.47
T	IRVF06P06	7/1/2013	09:00	NB	0.023	10.32	7.31	1769	8.11	22.88	2.97	24	310	0.19	2	0.25	1.16	0.04	<5	<5	0.2	0.05	4.5
T	IRVF06P06	7/25/2013	11:01	NB	0.010	4.488		**5845**	8.06	21.99	3.14	24	**1110**	0.1	2	0.25	1.59	0.06	<5	<5	0.2	0.05	11.2
T	IRVF06P06	8/15/2013	09:00	NB	0.016	7.181	6.96	**5630**	8.05	21.04	3.33	22	950	0.1	2	**0.65**	1.5	0.02	<5	<5	0.2	0.05	9.95
T	IRVF06P06	9/12/2013	09:04	NB	0.028	12.57	NR	**4181**	7.76	21.34	9.68	22	750	0.19	2	0.44	1.45	0.03	<5	<5	0.2	0.05	6.27
R	IRVF08P01	6/17/2013	09:35	NB	0.009	4.039	9.64	3470	8.36	19.14	2.78	23	680	0.1	3.3	0.25	1.41	0.04	<5	<5	0.2	0.05	7.71
R	IRVF08P01	8/1/2013	09:10	NB	0.456	204.7	7.78	1211	8.24	21.19	5.28	22	205	0.1	**8.4**	0.25	**4.75**	**0.26**	50	<5	0.1	0.05	8.95
R	IRVF08P01	9/25/2013	09:10	NB	0.009	4.039	13.49	3758	**8.74**	21.14	12	24	820	0.1	2.5	0.25	1.28	0.05	16	<5	0.2	0.05	9.47
T	IRVF08RCP36	5/28/2013	07:50	NB	0.373	167.4	7.83	**14533**	7.72	21.32	0.3	20	**2400**	0.1	2.3	0.25	0.42	0.04	<5	<5	0.2	0.05	4.2
T	IRVF08RCP36	7/1/2013	07:45	NB	0.258	115.8	7.15	**14312**	7.71	21.52	0.3	23	**2535**	0.1	2	0.25	0.35	0.06	<5	<5	0.2	0.05	4.02
T	IRVF08RCP36	7/25/2013	07:53	NB	0.337	151.3		**13432**	7.73	21.55	0.3	21	**2480**	0.1	2	0.25	0.52	0.06	<5	<5	0.2	0.05	3.17
T	IRVF08RCP36	8/15/2013	07:46	NB	0.47	211	7.13	**13720**	7.65	21.57	0.62	20	**1910**	0.1	2	0.26	0.4	0.09	<5	<5	0.2	0.05	3.73
T	IRVF08RCP36	9/12/2013	07:59	NB	0.263	118	NR	**14043**	7.67	21.64	2.05	20	**2450**	0.1	2	0.25	0.57	0.03	<5	<5	0.2	0.05	4.34
R	IRVF20@ETGCC	6/10/2013	09:05	NB	0.017	7.63	9.4	817	8.29	18.88	0.82	22	210	0.1	2	0.25	0.8	0.03	<5	<5	0.2	0.05	4.21
R	IRVF20@ETGCC	7/24/2013	08:20	NB	0.008	3.591		960	8.25	20.59	3.66	24	275	0.1	2	0.25	0.8	0.09	<5	<5	0.2	0.05	7.01
R	IRVF20@ETGCC	8/29/2013	09:10	NB	0.116	52.06	7.37	866	8.25	22.88	2.57	32	170	0.01	0.9	0.25	0.85	0.05	<5	<5	0.2	0.05	12.2
R	IRVMPF15P11	6/17/2013	11:23	NB	0.089	39.95	9.78	3611	8.38	20.9	0.55	21	790	0.1	4.6	0.25	0.56	0.05	<5	<5	0.2	0.05	5.39
R	IRVMPF15P11	8/1/2013	10:39	NB	0.209	93.81	8.3	3073	8.33	21.38	1.69	23	765	0.1	**6.6**	0.25	1.67	0.11	<5	<5	0.2	0.05	6.51
R	IRVMPF15P11	9/25/2013	10:35	NB	0.181	81.24	8.47	3244	8.27	22.03	1.03	25	620	0.1	5.4	0.25	0.81	0.08	<5	<5	0.2	0.05	6.71
T	LAFPS@A01	5/21/2013	10:25	SGR/CC	PONDED		**4.4**	860	7.57	19.15	3.85	25	175	**3.2**	2	0.38	0.87	0.03	<5	**7**	0.2	0.05	9.54
T	LAFPS@A01	6/25/2013	11:02	SGR/CC	PONDED		**4.88**	965	7.74	19.84	3.54	22	225	**1.76**	2	0.26	1.34	0.09	5	<5	0.2	0.05	8.32
T	LAFPS@A01	7/18/2013	10:52	SGR/CC	PONDED		**4.09**	1426	7.76	21.02	4.96	27	145	**2.16**	2	0.35	2.1	0.06	10	**9**	0.2	0.05	13.2
T	LAFPS@A01	8/20/2013	12:13	SGR/CC	PONDED		**1.91**	959	7.57	21.37	5.21	28	210	**3.7**	2	0.32	2.2	0.03	<5	<5	0.2	0.05	**36.1**
T	LAFPS@A01	9/17/2013	09:21	SGR/CC	PONDED		**4.08**	1017	7.75	22.01	3.48	23	280	**3.8**	2	0.38	2.26	0.03	<5	<5	0.2	0.05	**21.2**
T	LFDIM@LFD	5/23/2013	07:50	NB	DRY																		
T	LFDIM@LFD	6/27/2013	08:40	NB	0.004	1.795	9.71	1040	8.05	19.89	8.82	23	270	0.32	2.7	0.25	1.77	0.06	19	<5	0.2	0.05	8.53
T	LFDIM@LFD	7/23/2013	12:22	NB	0.001	0.449	6.78	1209	8.17	23.21	1.34	31	280	0.15	1.9	0.25	**3.07**	0.1	**84**	<5	0.2	0.05	10.1
T	LFDIM@LFD	8/19/2013	08:00	NB	0.021	9.425	8.45	2223	7.97	20.37	4.47	21	520	0.18	2.9	0.25	**2.86**	0.04	21	<5	0.2	0.05	**25**
T	LFDIM@LFD	9/19/2013	08:30	NB	0.003	1.346	8.92	1247	8	19.43	3.15	18	285	0.34	5.4	0.33	**3.82**	0.03	<5	<5	0.2	0.05	11.8
T	LFF19S02@PB	5/23/2013	08:15	NB	0.190	85.28	9.42	1275	**9.81**	19.76	0.71	20	375	0.1	**6.4**	0.25	1.07	0.04	<5	<5	0.2	0.05	8.2
T	LFF19S02@PB	6/27/2013	09:09	NB	0.360	161.6	9.47	1284	8.33	19.86	**28.3**	27	375	0.1	5.1	0.25	1.2	0.03	8	<5	0.2	0.05	8.21
T	LFF19S02@PB	7/23/2013	11:02	NB	0.155	69.57	5.65	1960	7.77	20.76	8.38	30	675	**1.83**	**38.3**	0.25	2.22	0.08	64	<5	0.2	0.05	15.4
T	LFF19S02@PB	8/19/2013	09:10	NB	0.076	34.11	9.16	1304	7.96	19.65	2.51	23	365	0.61	**11**	0.35	**3.82**	0.04	5	<5	0.2	0.05	11.1
T	LFF19S02@PB	9/19/2013	09:20	NB	0.067	30.07	8.84	1044	8.04	19.69	2.59	21	285	0.1	**6.6**	0.25	1.45	0.03	<5	<5	0.2	0.05	10.3

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Physicals									Chemical									
Criterion	Site Name	Date	Time	Watershed	Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^{0}C	NTU	^{0}C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
R	LGHF23S02	6/11/2013	09:20	NB	0.706	316.9	8.83	2630	7.8	20.11	5.52	26	700	0.1	3	0.25	0.51	0.1	<5	<5	0.2	0.05	5.08
R	LGHF23S02	7/23/2013	09:49	NB	0.334	149.9	6.03	3447	7.93	20.99	2.23	25	960	0.1	3	0.25	0.84	0.08	8	<5	0.2	0.05	6.3
R	LGHF23S02	8/28/2013	10:05	NB	0.607	272.4	7.8	3261	7.86	21.37	1.99	31	465	0.1	2.5	0.25	1.03	0.05	<5	<5	0.2	0.05	6.56
R	LHA01P10	6/12/2013	07:35	SGR/CC	0.031	13.91	9.26	1030	8.37	19.25	2.49	20	240	0.1	2	0.49	**3.34**	0.03	<5	<5	0.2	0.05	14.2
R	LHA01P10	8/20/2013	08:52	SGR/CC	0.043	19.3	8.75	881	8.33	20.6	2.15	22	270	0.2	2	0.29	2.25	0.03	<5	<5	0.2	0.05	9.42
R	LHA01P10	9/26/2013	07:38	SGR/CC	0.181	81.24	8.61	1069	8.28	18.97	2.69	18	275	**0.84**	3.5	0.25	2.25	0.03	5	<5	0.2	0.05	**19.8**
T	LHA07XXX	5/21/2013	08:40	SGR/CC	0.001	0.449	7.2	1138	7.99	19.99	2.38	22	280	0.1	2	0.4	0.71	0.03	<5	<5	0.2	0.05	12.1
T	LHA07XXX	6/25/2013	09:16	SGR/CC	0.006	2.693	8.21	1241	7.96	20.63	2.64	22	315	0.27	2	0.38	1.3	0.13	<5	<5	0.2	0.05	11.2
T	LHA07XXX	7/18/2013	09:12	SGR/CC	0.022	9.874	6.18	1268	8.25	21.47	3.46	24	300	0.13	2	0.25	0.87	0.05	<5	<5	0.2	0.05	11.8
T	LHA07XXX	8/20/2013	10:12	SGR/CC	0.003	1.346	7.21	1306	8.17	22.04	2.08	25	275	0.4	2	0.31	1.32	0.04	<5	<5	0.2	0.05	10.8
T	LHA07XXX	9/17/2013	08:36	SGR/CC	DRY																		
R	LPB02P04	6/6/2013	10:30	SGR/CC	0.258	115.8	8.58	1875	8.33	21.34	2.62	25	410	0.1	5	0.27	1.04	**0.16**	<5	**16**	0.2	0.05	7.56
R	LPB02P04	8/13/2013	10:05	SGR/CC	0.382	171.5	7.48	985	8.26	23.51	1.6	23	330	0.1	3.6	0.25	0.97	0.05	<5	<5	0.2	0.05	6.94
R	LPB02P04	9/26/2013	09:19	SGR/CC	0.218	97.84	7.57	1819	8.38	23.36	1.47	23	410	0.1	5.1	0.25	1.03	0.04	<5	<5	0.2	0.05	5.71
R	LWF23P07@SM	6/11/2013	10:40	NB	0.014	6.284	9	2740	7.96	23.85	1.85	29	245	0.1	2.7	0.25	0.47	0.07	7	<5	0.2	0.05	7.48
R	LWF23P07@SM	8/19/2013	11:44	NB	0.011	4.937	9.52	2826	8.02	24.81	0.77	28	700	0.1	2	0.25	0.37	0.05	62	<5	0.2	0.05	6.57
R	LWF23P07@SM	9/24/2013	10:53	NB	0.001	0.449	8	2654	7.94	25.17	0.88	34	735	0.1	2	0.25	0.41	0.05	<5	<5	0.2	0.05	6.49
T	LWF23P09XXX	5/23/2013	10:00	NB	0.067	30.07	9.44	3795	7.8	19.28	0.61	23	**1090**	0.1	5.1	0.25	0.52	0.03	<5	<5	0.2	0.05	4.98
T	LWF23P09XXX	6/27/2013	10:47	NB	0.110	49.37	9.84	3598	7.64	21.14	0.93	34	**1057**	0.1	4.1	0.25	0.66	0.07	<5	<5	0.2	0.05	5.52
T	LWF23P09XXX	7/23/2013	08:37	NB	0.181	81.24		3400	7.77	20.68	2.12	24	935	0.1	4.3	0.25	0.82	0.09	<5	<5	0.2	0.05	5.27
T	LWF23P09XXX	8/19/2013	10:36	NB	0.182	81.69	8.73	3590	7.8	20.89	1.25	27	**1045**	0.1	4	0.25	1.09	0.04	<5	<5	0.2	0.05	4.27
T	LWF23P09XXX	9/19/2013	10:32	NB	0.082	36.8	8.2	3324	7.72	20.57	4.13	28	995	0.1	3.5	0.25	0.93	0.04	10	<5	0.2	0.05	6.34
T	NBBCW@JAM	5/14/2013	10:10	NB	0.784	351.9	7.94	1756	8.21	23.57	7.59	25	585	0.1	2	0.31	0.65	0.12	23	<5	0.2	0.05	8.7
T	NBBCW@JAM	6/18/2013	10:25	NB	0.252	113.1	8.66	**4338**	8.25	23.48	6.48	26	**1345**	0.1	2	0.25	0.31	**0.22**	9	<5	0.2	0.05	8.62
T	NBBCW@JAM	7/10/2013	10:54	NB	0.503	225.8	8.24	**4437**	8.24	25.16	6.1	27	**1440**	0.1	2	0.37	0.39	0.13	26	<5	0.2	0.05	10.3
T	NBBCW@JAM	8/6/2013	10:16	NB	0.326	146.3	7.54	**3884**	8.11	23.55	5.62	26	**1185**	0.1	2	0.25	0.51	**0.16**	13	<5	0.2	0.05	8.59
T	NBBCW@JAM	9/3/2013	10:50	NB	0.208	93.36	5.61	**4338**	8.06	**26.61**	6.27	31	**1385**	0.1	2	0.25	0.3	0.12	7	<5	0.2	0.05	9.39
T	NBG02P01	5/2/2013	08:00	NB	0.026	11.67	11.01	1001	7.87	16.42	5.65	21	245	0.1	2	0.27	1.83	0.03	63	<5	0.2	0.05	7.98
T	NBG02P01	6/5/2013	07:40	NB	0.049	21.99	5.94	854	7.9	17.53	13.8	20	185	**1.01**	2	0.31	**7.1**	0.03	16	<5	0.2	0.05	9.11
T	NBG02P01	7/10/2013	09:18	NB	0.122	54.76	12.2	1544	**8.63**	22.6	9.28	26	320	0.1	2	**0.74**	**3.48**	0.08	40	<5	0.2	0.05	**61.2**
T	NBG02P01	8/6/2013	09:05	NB	0.021	9.425	13.56	1082	**8.93**	20.22	7.9	24	240	0.1	2	0.25	2.11	0.03	7	<5	0.2	0.05	8.65
T	NBG02P01	9/3/2013	09:48	NB	0.012	5.386	13.97	1213	**8.84**	24.13	4.38	29	270	0.1	2	0.25	1.53	0.03	23	<5	0.2	0.05	9.12
T	NBG02P02	5/2/2013	07:30	NB	DRY																		
T	NBG02P02	6/5/2013	08:55	NB	DRY																		
T	NBG02P02	7/10/2013	09:08	NB	DRY																		
T	NBG02P02	8/6/2013	08:35	NB	DRY																		
T	NBG02P02	9/3/2013	08:50	NB	0.002	0.898	6.87	987	7.96	21.53	1.71	27	245	**1.8**	2	0.36	2.28	0.03	**572**	<5	0.2	0.05	13.9

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Physicals									Chemical									
Criterion	Site Name	Date	Time	Watershed	Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO_4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^0C	NTU	^0C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
T	ORGBGE07S03	5/14/2013	07:10	SAR	0.008	3.591	8.37	941	8.23	20.15	2.81	20	335	0.1	4.3	0.45	0.69	0.03	5	<5	0.2	0.05	7.52
T	ORGBGE07S03	6/18/2013	07:16	SAR	0.008	3.591	8.59	976	8.2	20.52	3.2	19	370	0.11	5	0.34	0.65	0.03	<5	<5	0.2	0.05	5.58
T	ORGBGE07S03	7/2/2013	07:15	SAR	0.010	4.488	7.73	953	8.15	22.67	2.95	22	345	0.1	3.2	0.26	0.61	0.06	<5	<5	0.2	0.05	5.57
T	ORGBGE07S03	8/6/2013	07:10	SAR	0.006	2.693	7.52	944	8.07	21.56	1.95	20	390	0.1	3.9	0.28	0.76	0.04	<5	<5	0.2	0.05	5.09
T	ORGBGE07S03	9/3/2013	07:20	SAR	0.015	6.732	7.7	957	7.97	24.3	1.54	25	325	0.1	3.1	0.25	1.12	0.03	<5	<5	0.2	0.05	6.57
T	PLSE03S01@MJ	5/13/2013	07:15	SAR	PONDED		5.11	1058	7.45	19.57	5.65	24	240	**1.16**	2	0.44	1.8	0.03	21	<5	0.2	0.05	13
T	PLSE03S01@MJ	6/19/2013	07:05	SAR	PONDED		5.28	1544	7.83	20.53	3.55	20	370	**1.12**	2	0.4	1.32	0.03	5	<5	0.2	0.05	11.9
T	PLSE03S01@MJ	7/15/2013	07:13	SAR	PONDED		**4.71**	1493	7.72	22.31	1.71	22	400	**0.95**	2	0.31	1.44	0.06	<5	<5	0.2	0.05	12.5
T	PLSE03S01@MJ	8/7/2013	08:32	SAR	PONDED		**4.11**	1480	7.71	20.51	3.8	20	400	**0.91**	0.8	0.26	1.62	0.05	10	<5	0.2	0.05	9.37
T	PLSE03S01@MJ	9/4/2013	08:45	SAR	PONDED		**4.03**	1530	7.7	23.56	4.4	27	405	0.55	2	0.25	1.27	0.03	6	<5	0.2	0.05	10.5
T	SAE01@17TH	5/16/2013	10:30	SAR	0.004	1.795	8.34	1045	8.38	22.55	1.85	23	345			**0.55**	2.23		<5	<5	0.2	0.05	8.56
T	SAE01@17TH	6/20/2013	10:55	SAR	0.013	5.835	8.88	1119	8.42	24.27	5.86	26	345	0.1	2	0.41	2.03	0.04	12	<5	0.2	0.05	15
T	SAE01@17TH	7/16/2013	10:20	SAR	0.070	31.42	7.73	**3916**	8.12	**27.28**	0.76	28	345	0.1	**12.5**	0.25	0.69	**0.27**	<5	<5	0.2	0.05	2.92
T	SAE01@17TH	8/12/2013	11:04	SAR	0.016	7.181	8.58	1098	8.41	25.19	1.98	25	320	0.1	2	0.42	1.88	0.11	<5	<5	0.2	0.05	10.2
T	SAE01@17TH	9/16/2013	10:35	SAR	0.021	9.425	7.16	1058	8.34	**26.81**	2.2	30	300	0.1	2	0.25	2.64	0.04	<5	<5	0.2	0.05	8.48
NS	SAF01@FLR&RR	5/16/2013	09:00	NB	0.085	38.15	7.2	2993	7.49	21.55	0.85	22	**1285**	0.1	**9.8**	0.25	0.32	0.03	<5	<5	0.2	0.05	2.44
NS	SAF01@FLR&RR	6/20/2013	09:25	NB	0.150	67.32	7.8	2873	7.46	22.18	0.6	24	**1265**	0.1	**9.4**	0.25	0.86	0.03	<5	<5	0.2	0.05	2.14
NS	SAF01@FLR&RR	7/16/2013	08:58	NB	0.200	89.77	7.28	2810	7.49	23.08	0.72	25	715	0.1	**8.6**	0.25	0.3	0.06	<5	<5	0.2	0.05	3.16
NS	SAF01@FLR&RR	8/12/2013	09:19	NB	0.292	131.1	7.64	2460	7.48	23.15	1.8	22	**1210**	0.13	**8.9**	0.25	0.56	0.06	<5	<5	0.2	0.05	2.59
NS	SAF01@FLR&RR	9/16/2013	09:14	NB	0.082	36.8	7.14	2689	7.45	23.55	1	27	**1200**	0.1	**7.2**	0.25	0.82	0.04	<5	<5	0.2	0.05	2.42
T	SAF08@DYR&55	5/16/2013	07:35	NB	0.011	4.937	8.48	1049	8.1	18.93	2.66	19	310	0.12	2	0.34	0.81	0.03	<5	<5	0.2	0.05	7.34
T	SAF08@DYR&55	6/20/2013	07:50	NB	0.001	0.566	9.86	960	8.3	19.51	12	21	330	0.1	3.2	0.28	0.94	0.03	23	<5	0.2	0.05	5.94
T	SAF08@DYR&55	7/16/2013	07:45	NB	0.001	0.566	8.54	1106	8.15	21.09	3.8	22	305	0.13	2	0.39	1.09	0.03	<5	<5	0.2	0.05	8.52
T	SAF08@DYR&55	8/12/2013	07:40	NB	0.002	0.898	8.61	1012	7.9	20.33	3.36	20	260	0.17	2	0.28	0.8	0.07	<5	<5	0.2	0.05	5.04
T	SAF08@DYR&55	9/16/2013	07:35	NB	0.003	1.346	7.49	1036	7.99	21.88	2.6	22	270	0.1	2	0.25	0.78	0.03	<5	<5	0.2	0.05	6.23
T	TTF07P01	5/22/2013	07:25	NB	0.041	18.4	8.89	725	8.28	21.65	2.93	20	165	0.1	4.7	0.25	0.3	0.03	<5	<5	0.2	0.05	1.54
T	TTF07P01	6/26/2013	07:30	NB	0.009	4.039	9.71	830	8.29	21.38	1.78	23	210	0.1	2.8	0.28	0.8	0.05	<5	<5	0.2	0.05	6.65
T	TTF07P01	7/22/2013	07:29	NB	0.010	4.488	5.69	860	8.19	22.23	1.78	24	210	0.1	2.6	0.49	0.87	0.05	<5	<5	0.2	0.05	11.1
T	TTF07P01	8/14/2013	08:27	NB	0.002	0.898	8.8	825	8.27	21.32	2.5	21	225	0.1	2	0.29	1.81	0.03	<5	<5	0.2	0.05	8.34
T	TTF07P01	9/11/2013	07:21	NB	0.017	7.63	6.6	770	8.18	24.15	2.77	20	185	0.1	4.8	0.3	0.47	0.03	<5	<5	0.2	0.05	1.84
R	TTF07P04	6/11/2013	07:30	NB	0.033	14.81	8.52	1509	8	19.66	9.35	20	280	**0.75**	**6**	0.35	1.11	0.03	14	<5	0.2	0.05	10.5
R	TTF07P04	7/22/2013	08:34	NB	0.006	2.693	6.3	1050	**8.83**	21.83	2.9	24	310	0.1	2	0.3	1.25	0.04	5	<5	0.2	0.05	**25.7**
R	TTF07P04	8/28/2013	07:27	NB	0.018	8.079	6.48	1027	7.92	22.61	3.85	23	220	**0.94**	2.6	0.34	1.33	0.03	37	<5	0.2	0.05	8.05
T	TTF12@VANLN	5/22/2013	09:55	NB	0.045	20.2	9.65	948	8.28	19.21	7.22	24	275	0.2	3.6	0.25	0.6	0.03	8	<5	0.2	0.05	3.82
T	TTF12@VANLN	6/26/2013	09:35	NB	0.169	75.85	10.01	951	8.28	20.87	7.67	27	275	0.1	4.1	0.25	0.43	0.05	7	<5	0.2	0.05	3.02
T	TTF12@VANLN	7/22/2013	10:47	NB	0.129	57.9	6.54	867	**8.49**	23.07	7.49	29	285	0.1	3.1	0.25	0.46	0.06	8	<5	0.2	0.05	4.66
T	TTF12@VANLN	8/14/2013	07:20	NB	0.18	80.79	8.31	1477	8.18	20.89	3.02	20	360	**3**	**6.6**	0.25	0.66	0.05	<5	<5	0.2	0.05	**18.4**

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Physicals									Chemical									
Criterion	Site Name	Date	Time	Watershed	Discharge Rate		Dissolved Oxygen	Electrical Conductivity	pH	Water Temperature	Turbidity	Air Temperature	Hardness as $CaCO_3$	Ammonia as N	Nitrate as N	Surfactsnats (MBAS)	Reactive Orthophosphate as PO4	Total Chlorine	Total Suspended Solids (TSS)	Oil & Grease	Dissolved Copper	Dissolved Hexa Chrom.	Total Organic Carbon
					cfs	gpm	mg/L	µS/cm		^{0}C	NTU	^{0}C	mg/L	mg/L									
1	**Outside Tolerance Interval**						**4.97**	**3863**	**7.22-8.47**	**25.27**	**16.3**	**16.27**	**1040**	**0.63**	**5.5**	**0.5**	**2.66**	**0.14**	**76.21**	**5**	**0.2**	**0.05**	**17**
2	Basin Plan Objective						5		6.5-9		20					0.5	0.1		75				
3	Out of Bounds for Site																						
4	Warning Level based on Experience							6000		40				0.65	10			1					
5	CTR Acute Criterion																						
6	CTR Chronic Criterion																						
7	LC_{50} for Toxicity Test Organism																						
	Targeted Site	Random Site																					
	New Site 2013																						
T	TTF12@VANLN	9/11/2013	09:57	NB	0.112	50.27	7.49	784	**8.66**	21.68	1.73	24	255	0.1	3.1	0.25	0.31	0.03	<5	<5	0.2	0.05	1.04
T	VPRCP@CYNCIR	5/14/2013	08:40	SAR	0.048	21.54	8.86	1274	**8.48**	18.29	2.18	21	330	0.1	2	0.25	0.93	0.05	<5	<5	0.2	0.05	7.64
T	VPRCP@CYNCIR	6/18/2013	09:00	SAR	0.020	8.977	9.94	1401	8.44	19.16	3.02	20	495	0.1	2.1	0.25	0.86	**0.86**	<5	<5	0.2	0.05	6.61
T	VPRCP@CYNCIR	7/24/2013	11:50	SAR	0.034	15.26		1605	8.39	21.58	1.65	27	525	0.1	2	0.25	0.85	0.06	<5	<5	0.2	0.05	7.92
T	VPRCP@CYNCIR	8/7/2013	07:21	SAR	0.037	16.61	8.32	1252	8.23	19.8	1.81	19	365	0.14	2	0.25	1.24	0.03	<5	<5	0.2	0.05	7.15
T	VPRCP@CYNCIR	9/4/2013	07:18	SAR	0.057	25.58	6.97	1216	8.12	22.66	2.41	23	355	0.1	2	0.25	1.29	0.03	<5	<5	0.2	0.05	8.2
T	WMBA@C02	5/15/2013	08:05	AB/HH/BB	0.005	2.244	8.65	2567	8.42	19.27	4.39	23	205	0.1	**7.1**	0.25	1.05	0.05	42	<5	0.2	0.05	6.16
T	WMBA@C02	6/13/2013	08:05	AB/HH/BB	0.019	8.528	9.26	2358	8.38	19.39	5.75	21	210	0.1	**6.6**	0.25	0.98	0.05	20	<5	0.2	0.05	6.17
T	WMBA@C02	7/11/2013	09:04	AB/HH/BB	0.012	5.386	7.9	2139	8.45	21.5	2.94	24	210	0.1	4.8	0.25	1.22	0.07	<5	<5	0.2	0.05	6.96
T	WMBA@C02	8/8/2013	07:55	AB/HH/BB	0.011	4.937	7.81	1731	8.33	19.68	1.39	21	175	0.1	5.4	0.25	1.43	0.04	<5	<5	0.2	0.05	5.89
T	WMBA@C02	9/5/2013	08:18	AB/HH/BB	0.007	3.142	6.77	1891	8.24	22.03	1.38	26	250	0.1	4.1	0.25	1.69	0.05	<5	<5	0.2	0.05	8.07
T	WMC03HEFRCP	5/15/2013	07:35	AB/HH/BB	DRY																		
T	WMC03HEFRCP	6/13/2013	07:25	AB/HH/BB	DRY																		
T	WMC03HEFRCP	7/11/2013	08:30	AB/HH/BB	0.005	2.244	7.66	1079	7.95	21.73	1.15	23	405	0.56	3.7	0.25	0.84	0.06	<5	<5	0.2	0.05	7.39
T	WMC03HEFRCP	8/8/2013	07:29	AB/HH/BB	DRY																		
T	WMC03HEFRCP	9/5/2013	07:37	AB/HH/BB	DRY																		
R	WMC05S01@WA	6/6/2013	09:04	AB/HH/BB	0.416	186.7	8.1	1468	7.62	20.51	4.13	21	400	0.3	3.6	0.25	0.3	0.03	<5	<5	0.2	0.05	4.66
R	WMC05S01@WA	7/11/2013	10:17	AB/HH/BB	0.234	105	7.36	1900	7.69	22.47	3.71	26	470	0.26	3.6	0.27	0.41	0.05	<5	<5	0.2	0.05	6.78
R	WMC05S01@WA	8/27/2013	10:15	AB/HH/BB	0.234	105	7.11	2135	7.69	23.11	3.97	29	485	0.52	3.5	0.25	0.58	0.04	<5	<5	0.2	0.05	7.35
T	YLE01@VLDYE	5/13/2013	10:20	SAR	0.055	24.69	8.87	3501	7.65	21.66	1.29	38	**1080**	0.1	2.4	0.25	0.35	0.05	<5	<5	0.2	0.05	6.12
T	YLE01@VLDYE	6/19/2013	10:24	SAR	0.060	26.93	8.77	3588	7.62	20.91	2.66	26	**1700**	0.1	2	0.25	0.39	0.05	<5	<5	0.2	0.05	6.58
T	YLE01@VLDYE	7/15/2013	10:05	SAR	4.080	1831	7.65	2761	7.6	22.43	2.21	31	**1075**	0.1	2	0.25	0.65	0.1	<5	<5	0.2	0.05	7.12
T	YLE01@VLDYE	8/7/2013	10:46	SAR	0.088	39.5	7.63	**3883**	7.65	21.49	1.94	27	**1450**	0.13	2	0.25	0.5	0.03	<5	<5	0.2	0.05	5.53
T	YLE01@VLDYE	9/4/2013	10:52	SAR	0.063	28.28	5.03	**3969**	7.54	23.43	13.04	37	**1450**	0.37	2	0.25	0.92	0.03	40	<5	0.2	0.05	7.21
T	YLE01MIROUT	5/13/2013	09:00	SAR	0.003	1.346	8.57	3390	7.97	19.87	0.82	33	740	0.1	2	0.25	0.31	0.04	<5	<5	0.2	0.05	9.77
T	YLE01MIROUT	6/19/2013	09:20	SAR	0.006	2.693	9.1	1264	8.28	20.37	1.45	23	380	0.1	2.6	0.26	0.47	0.04	<5	<5	0.2	0.05	5.79
T	YLE01MIROUT	7/15/2013	08:39	SAR	0.033	14.81	7.78	1166	8.24	22.88	2.62	26	350	0.1	2.1	0.25	0.6	0.07	6	<5	0.2	0.05	6.29
T	YLE01MIROUT	8/7/2013	09:49	SAR	0.005	2.244	7.85	1065	8.16	20.65	2.5	21	300	0.1	2	0.25	0.44	0.03	<5	<5	0.2	0.05	7.33
T	YLE01MIROUT	9/4/2013	09:53	SAR	0.002	0.898	7.06	1386	7.92	24.66	2.37	33	325	0.1	2	0.29	0.62	0.03	<5	<5	0.2	0.05	10.2

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Bacteria			Pesticides					Dissolved Metals									
Criterion	Site Name	Date	Time	Watershed	Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
T	ANACIT@B01	5/1/2013	08:55	SGR/CC	>26,000	140	220	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1	3.2	10	<0.50	<0.50	<0.50	1.8	0.99	<0.05
T	ANACIT@B01	6/4/2013	08:30	SGR/CC	>4,300	540	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	3.3	11	23	<0.50	<0.50	<0.50	2.8	0.76	<0.05
T	ANACIT@B01	7/9/2013	08:35	SGR/CC	>13,300	5,400	2,000	<10.0	<10.0	<10.0	<10.0	<10.0	0.34	6	9.4	35	<0.20	0.13	0.27	2.2	0.83	<0.05
T	ANACIT@B01	8/5/2013	08:25	SGR/CC	>35,000	>8,700	5600	<10.0	**26**	<10.0	<10.0	<10.0	0.36	3.2	5.8	15	<0.20	<0.10	<0.20	1.9	0.65	<0.05
T	ANACIT@B01	9/9/2013	08:20	SGR/CC	>42,000	2200	8000	<10.0	<10.0	<10.0	<10.0	<10.0	0.38	3.8	7.5	19	<0.20	<0.10	0.28	2.1	0.58	<0.05
T	ANAE02@LAPAL	5/1/2013	07:10	SAR	>93,000	30,000	**32,000**	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.4	12	17	<0.50	<0.50	<0.50	2.3	0.65	<0.05
T	ANAE02@LAPAL	6/4/2013	07:15	SAR	>47,000	13,400	13,100	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.2	7.2	14	<0.50	<0.50	<0.50	1.7	0.66	<0.05
T	ANAE02@LAPAL	7/9/2013	07:12	SAR	>86,000	60,000	24,000	<10.0	<10.0	<10.0	<10.0	<10.0	0.34	5	15	21	<0.20	0.13	0.35	1.8	0.93	<0.05
T	ANAE02@LAPAL	8/5/2013	07:15	SAR	>5,600	>2,000	3600	<10.0	<10.0	<10.0	<10.0	<10.0	0.29	2.8	14	14	<0.20	0.21	<0.20	2.4	0.46	<0.05
T	ANAE02@LAPAL	9/9/2013	07:11	SAR	25000	3000	5900	<10.0	<10.0	<10.0	<10.0	<10.0	0.22	2.3	9.2	23	<0.20	<0.10	0.21	2.2	0.52	<0.05
T	ANAE12@ E01	5/1/2013	10:40	SAR	>28,000	7,100	2,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.4	3.3	15	<0.50	<0.50	<0.50	1.5	0.7	<0.05
T	ANAE12@ E01	6/4/2013	09:40	SAR	20,000	860	320	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.7	3.9	16	<0.50	<0.50	<0.50	1.6	<0.50	<0.05
T	ANAE12@ E01	7/9/2013	10:38	SAR	>84,000	24,000	5,500	<10.0	<10.0	<10.0	<10.0	<10.0	0.51	3.5	2.9	10	<0.20	<0.10	<0.20	1.5	0.84	<0.05
T	ANAE12@ E01	8/5/2013	10:56	SAR	**>2,600,000**	28000	8800	<10.0	<10.0	<10.0	<10.0	<10.0	0.48	1.8	3.9	17	<0.20	**1.6**	<0.20	1.4	0.41	<0.05
T	ANAE12@ E01	9/9/2013	09:30	SAR	20000	1080	3000	<10.0	<10.0	<10.0	<10.0	<10.0	0.53	2	6.4	20	<0.20	<0.10	0.21	1.7	0.53	<0.05
R	ANAHGC03	6/10/2013	07:25	AB/HH/BB	>1,200	240	50	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.3	3.5	16	<0.50	<0.50	<0.50	1.7	0.88	<0.05
R	ANAHGC03	7/9/2013	09:33	AB/HH/BB	>9,800	3,400	1,350	<10.0	<10.0	<10.0	<10.0	<10.0	0.46	5	13	29	<0.20	<0.10	0.26	2.3	1	<0.05
R	ANAHGC03	8/29/2013	07:40	AB/HH/BB	>320	270	460	<10.0	<10.0	<10.0	<10.0	<10.0	0.71	3.6	**29**	**110**	<0.20	0.2	**1.5**	2.6	0.5	<0.05
T	BRRC@I-90	5/21/2013	07:25	SGR/CC	**1,090,000**	**410,000**	**210,000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.55	2.9	3.6	24	<0.50	<0.50	<0.50	2.5	0.6	<0.05
T	BRRC@I-90	6/25/2013	07:30	SGR/CC	**>1,700,000**	40,000	10,000	<10.0	<10.0	<10.0	<10.0	<10.0	0.55	2.5	3.7	15	<0.50	<0.50	<0.50	3.5	<0.50	<0.05
T	BRRC@I-90	7/18/2013	07:38	SGR/CC	>68,000	7,600	4,300	<10.0	<10.0	<10.0	<10.0	<10.0	0.41	2	2.4	12	<0.20	<0.10	<0.20	2.3	0.42	<0.05
T	BRRC@I-90	8/20/2013	07:30	SGR/CC	>85,000	14900	30000	<10.0	<10.0	<10.0	<10.0	<10.0	0.69	1.9	3.8	11	<0.20	<0.10	<0.20	2.3	0.41	<0.05
T	BRRC@I-90	9/17/2013	07:25	SGR/CC	300000	**137000**	10000	<10.0	<10.0	<10.0	<10.0	<10.0	0.98	1.2	2.5	15	<0.20	<0.10	<0.20	2.6	0.41	<0.05
NS	CMFWD03INLET	5/30/2013	08:31	SAR	>1,020	470	300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.9	4.6	5.8	<0.50	<0.50	<0.50	2.8	1.4	<0.05
NS	CMFWD03INLET	7/3/2013	07:50	SAR	>210	40	<9	<10.0	<10.0	<10.0	<10.0	11	<0.50	1.9	3.8	5.1	<0.50	<0.50	<0.50	3.2	1.5	<0.05
NS	CMFWD03INLET	7/30/2013	07:34	SAR																		
NS	CMFWD03INLET	8/22/2013	07:45	SAR																		
NS	CMFWD03INLET	9/23/2013	07:50	SAR	>1,400	130	9	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	3.5	4.4	14	<0.20	0.14	<0.20	3	1.5	<0.05
NS	CMFWPONDC	5/30/2013	08:55	SAR	>99	90	80	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.5	6.7	3	<0.50	<0.50	<0.50	3.1	1.4	<0.05
NS	CMFWPONDC	7/3/2013	09:00	SAR	>20	<9	<9	<10.0	<10.0	<10.0	<10.0	14	<0.50	2.2	3.6	2.1	<0.50	<0.50	<0.50	3	1.3	<0.05
NS	CMFWPONDC	7/30/2013	07:54	SAR	>40	30	<9	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.9	3.5	<5.00	<0.20	<0.10	<0.20	3.6	1	<0.05
NS	CMFWPONDC	8/22/2013	08:04	SAR	>110	20	20	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	2.9	4.1	9.7	<0.20	<0.10	<0.20	3.7	1.1	<0.05
NS	CMFWPONDC	9/23/2013	08:54	SAR	>800	>230	99	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	3.2	11	<5.00	<0.20	<0.10	<0.20	3.8	1.1	<0.05
NS	CMFWPONDE	5/30/2013	10:05	SAR	>570	270	40	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	5.7	7.8	2.8	<0.50	<0.50	<0.50	3.3	1.3	<0.05
NS	CMFWPONDE	7/3/2013	10:07	SAR	>610	9	100	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	5.8	5.1	4	<0.50	<0.50	<0.50	4.9	0.93	<0.05
NS	CMFWPONDE	7/30/2013	08:54	SAR	>40	>9	20	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	2	4	<5.00	<0.20	<0.10	<0.20	4.1	1	<0.05
NS	CMFWPONDE	8/22/2013	09:08	SAR	>52,000	20	9	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.8	4	6.6	<0.20	<0.10	<0.20	3.8	1.2	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Bacteria			Pesticides					Dissolved Metals									
Criterion	Site Name	Date	Time	Watershed	Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
NS	CMFWPONDE	9/23/2013	10:00	SAR	>200	<9	140	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	3.1	3	<5.00	<0.20	<0.10	<0.20	3.8	0.97	<0.05
T	COC01S01@MT	5/20/2013	07:48	AB/HH/BB	>15,600	7,400	26,000	<10.0	<10.0	<10.0	<10.0	<10.0	**5.5**	1.1	7.4	11	<0.50	<0.50	0.61	4.2	<0.50	<0.05
T	COC01S01@MT	6/24/2013	07:40	AB/HH/BB	>51,000	22,000	22,000	<10.0	<10.0	<10.0	**110**	<10.0	<0.50	2	**18**	14	<0.50	<0.50	0.67	5.2	<0.50	<0.05
T	COC01S01@MT	7/17/2013	09:00	AB/HH/BB	**36,000,000**	**7,900,000**	**3,700,000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.47	2.5	4.2	5	<0.20	<0.10	<0.20	4	<0.40	<0.05
T	COC01S01@MT	8/21/2013	07:46	AB/HH/BB	>57,000	12100	15600	<10.0	<10.0	<10.0	<10.0	<10.0	0.52	2.2	**16**	20	<0.20	<0.10	**0.86**	6	<0.40	<0.05
T	COC01S01@MT	9/10/2013	07:33	AB/HH/BB																		
R	COC01S03	6/12/2013	10:50	AB/HH/BB	>590	110	270	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	6.3	3.2	<0.50	<0.50	<0.50	1.5	<0.50	<0.05
R	COC01S03	7/17/2013	07:50	AB/HH/BB	>6,200	950	530	<10.0	<10.0	<10.0	<10.0	<10.0	0.3	1.2	6.2	15	<0.20	0.32	<0.20	2	<0.40	<0.05
R	COC01S03	8/27/2013	07:39	AB/HH/BB	>6,800	860	200	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	<0.80	5.6	6	<0.20	<0.10	<0.20	1.6	<0.40	<0.05
T	COF07S01	5/22/2013	08:38	NB	>62,000	41,000	4,800	14	<10.0	<10.0	<10.0	<10.0	<0.50	1.9	**19**	14	<0.50	<0.50	<0.50	2.6	1.2	<0.05
T	COF07S01	6/26/2013	08:45	NB	>24,000	6,600	2,700	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.1	12	12	<0.50	<0.50	<0.50	3.2	1.3	<0.05
T	COF07S01	7/22/2013	09:44	NB	>12,000	2,700	2,200	<10.0	<10.0	<10.0	<10.0	<10.0	0.68	1.9	9	10	<0.20	<0.10	<0.20	4	1.2	<0.05
T	COF07S01	8/14/2013	09:50	NB	38000	9400	9200	<10.0	<10.0	<10.0	<10.0	<10.0	0.33	2.3	10	13	<0.20	<0.10	0.21	2.9	1.2	<0.05
T	COF07S01	9/11/2013	08:31	NB	26000	7800	6000	<10.0	<10.0	<10.0	<10.0	<10.0	0.33	1.8	11	11	<0.20	<0.10	<0.20	2.9	1.3	<0.05
R	COF13@FH	6/5/2013	09:30	NB	22,000	9,640	5,200	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.2	3.1	3.3	<0.50	<0.50	<0.50	1.1	3.8	<0.05
R	COF13@FH	7/10/2013	07:46	NB	>38,000	35,000	6,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.23	1.2	2.8	<5.00	<0.20	<0.10	<0.20	1.6	3.6	<0.05
R	COF13@FH	8/28/2013	08:43	NB	>129,000	8000	**36000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.27	2	11	20	<0.20	<0.10	<0.20	1.6	4.2	<0.05
R	CYPB00P01	6/12/2013	09:20	SGR/CC	>10,100	540	4,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	0.68	3.8	11	<0.50	<0.50	<0.50	3.7	1.1	<0.05
R	CYPB00P01	7/31/2013	07:35	SGR/CC	>23,000	2100	2800	<10.0	<10.0	<10.0	<10.0	<10.0	0.23	<0.80	3.6	12	<0.20	<0.10	<0.20	3.8	1	<0.05
R	CYPB00P01	8/27/2013	08:47	SGR/CC	>4,700	80	480	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	<0.80	3.6	10	<0.20	<0.10	<0.20	2.9	<0.40	<0.05
NS	CYPB0178@VL	6/3/2013	11:05	SGR/CC	>98,000	39,000	24,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.3	10	7.7	<0.50	0.77	<0.50	3.9	2.1	<0.05
NS	CYPB0178@VL	7/8/2013	07:46	SGR/CC	>32,000	>4,600	9,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.46	5.7	11	12	<0.20	**2.7**	<0.20	3.4	2	<0.05
NS	CYPB0178@VL	7/31/2013	08:40	SGR/CC	>36,000	>2,300	4700	<10.0	<10.0	<10.0	<10.0	<10.0	0.49	3.6	11	16	<0.20	**2.1**	<0.20	4.2	1.9	<0.05
NS	CYPB0178@VL	8/21/2013	08:55	SGR/CC	>75,000	27000	4000	<10.0	<10.0	<10.0	<10.0	<10.0	0.38	2.4	9.7	11	<0.20	**1.4**	<0.20	3.6	1.9	<0.05
NS	CYPB0178@VL	9/18/2013	07:29	SGR/CC	>31,000	>280	12300	<10.0	<10.0	<10.0	<10.0	<10.0	0.26	2	**17**	21	<0.20	0.68	<0.20	3.7	1.4	<0.05
T	CYPSTANT@VV	6/3/2013	07:40	SGR/CC	>42,000	>6,700	20,000	<10.0	<10.0	<10.0	<10.0	<10.0	1	2.6	**28**	14	<0.50	<0.50	<0.50	3.1	2.1	0.05
T	CYPSTANT@VV	7/8/2013	09:06	SGR/CC	>45,000	22,000	13,600	<10.0	<10.0	<10.0	<10.0	<10.0	0.75	4.5	6.4	8	<0.20	0.11	<0.20	2.3	1.8	<0.05
T	CYPSTANT@VV	7/31/2013	09:38	SGR/CC																		
T	CYPSTANT@VV	8/21/2013	09:56	SGR/CC																		
T	CYPSTANT@VV	9/18/2013	08:39	SGR/CC																		
T	FULA03S05	5/20/2013	09:45	SGR/CC	>138,000	5,600	3,500	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.4	9	14	<0.50	<0.50	<0.50	1	0.65	<0.05
T	FULA03S05	6/24/2013	09:50	SGR/CC	>3,600	>370	4,700	<10.0	<10.0	<10.0	<10.0	<10.0	**1.9**	4.4	**26**	20	<0.50	<0.50	**0.8**	2	1.1	<0.05
T	FULA03S05	7/17/2013	11:00	SGR/CC	<9	<9	<9	<10.0	<10.0	<10.0	<10.0	<10.0	1.6	4.2	**22**	28	<0.20	0.4	**1.1**	1.7	0.92	<0.05
T	FULA03S05	8/13/2013	07:34	SGR/CC	>8,000	>300	530	<10.0	<10.0	<10.0	<10.0	<10.0	0.64	4	9.4	14	<0.20	<0.10	0.39	1.4	1.2	<0.05
T	FULA03S05	9/10/2013	08:19	SGR/CC																		
T	FULB01@SCO	5/20/2013	10:50	SGR/CC	>2,300	210	340	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.2	2.8	2.6	<0.50	<0.50	<0.50	2.5	0.97	<0.05
T	FULB01@SCO	6/24/2013	10:58	SGR/CC	>3,900	840	580	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	3.3	14	13	<0.50	<0.50	<0.50	2.2	0.85	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Bacteria			Pesticides					Dissolved Metals									
Criterion	Site Name	Date	Time	Watershed	Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
T	FULB01@SCO	7/17/2013	12:15	SGR/CC	>1,410	330	440	<10.0	<10.0	<10.0	<10.0	<10.0	0.26	3.3	7.8	18	<0.20	<0.10	0.39	2.2	0.87	<0.05
T	FULB01@SCO	8/13/2013	08:41	SGR/CC	>28,000	>1,300	2400	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	2.3	3.1	<5.00	<0.20	<0.10	<0.20	2.4	1.8	<0.05
T	FULB01@SCO	9/10/2013	08:35	SGR/CC	>8,700	>370	520	<10.0	<10.0	<10.0	<10.0	<10.0	0.27	3.6	8.4	22	<0.20	<0.10	0.41	2.8	1.2	<0.05
T	FVES@D05	5/15/2013	09:45	SAR	>2,500	110	500	<10.0	<10.0	<10.0	<10.0	<10.0	0.59	1.6	6.8	15	<0.50	<0.50	<0.50	1.5	4.8	<0.05
T	FVES@D05	6/13/2013	09:35	SAR	>185,000	>850	610	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.7	5	8.5	<0.50	<0.50	<0.50	1.7	5.1	<0.05
T	FVES@D05	7/11/2013	11:30	SAR	>77,000	>29,000	4,800	<10.0	<10.0	<10.0	<10.0	<10.0	0.51	2	6.8	16	<0.20	0.16	<0.20	1.6	5.4	<0.05
T	FVES@D05	8/8/2013	09:23	SAR	>3,000	40	670	<10.0	<10.0	<10.0	<10.0	<10.0	0.67	1.4	4.8	5.2	<0.20	0.11	<0.20	1.4	4.4	<0.05
T	FVES@D05	9/5/2013	09:35	SAR	>7,000	>210	2800	<10.0	<10.0	<10.0	<10.0	<10.0	0.53	1.5	4.6	7.6	<0.20	0.17	<0.20	1.6	4.2	<0.05
R	GGC04@MAL	6/6/2013	07:40	AB/HH/BB	>12,300	2,300	1,520	<10.0	<10.0	<10.0	<10.0	<10.0	0.71	1.3	4	9.2	<0.50	<0.50	<0.50	2.7	0.95	<0.05
R	GGC04@MAL	8/5/2013	09:39	AB/HH/BB	>30,000	>900	3500	<10.0	<10.0	<10.0	<10.0	<10.0	0.43	1.7	7.8	21	<0.20	<0.10	<0.20	2.3	0.63	<0.05
R	GGC04@MAL	9/26/2013	10:43	AB/HH/BB	>19,400	1100	3900	<10.0	<10.0	<10.0	<10.0	<10.0	1.1	3.3	5.3	5.5	<0.20	<0.10	<0.20	1.6	1.6	<0.05
NS	GGSHAN84@CHP	6/3/2013	09:20	AB/HH/BB	>28,000	>6,600	2,800	<10.0	<10.0	<10.0	<10.0	<10.0	0.84	5.4	**18**	**72**	<0.50	<0.50	<0.50	2.7	1.1	<0.05
NS	GGSHAN84@CHP	7/8/2013	10:25	AB/HH/BB	>20,000	140	2,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.86	**14**	**130**	**67**	<0.20	0.46	0.37	3.3	1.6	<0.05
NS	GGSHAN84@CHP	7/31/2013	10:10	AB/HH/BB	>23,000	>40	3000	<10.0	<10.0	<10.0	<10.0	<10.0	0.82	2.6	**18**	19	<0.20	**3.7**	<0.20	2.4	1.4	<0.05
NS	GGSHAN84@CHP	8/21/2013	10:27	AB/HH/BB																		
NS	GGSHAN84@CHP	9/18/2013	09:12	AB/HH/BB	>8,800	120	21000	<10.0	<10.0	<10.0	<10.0	<10.0	0.53	2.7	5.3	15	<0.20	0.19	<0.20	2.3	1	<0.05
T	HBC05S04@BRG	5/29/2013	10:12	AB/HH/BB	>600	>400	40	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	6.1	3.1	3.1	<0.50	<0.50	<0.50	1.7	1.2	<0.05
T	HBC05S04@BRG	7/2/2013	10:11	AB/HH/BB	>1,300	180	350	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1	2.8	3.9	<0.50	<0.50	<0.50	1.6	<0.50	<0.05
T	HBC05S04@BRG	7/29/2013	09:52	AB/HH/BB	22,000	580	30	<10.0	<10.0	<10.0	<10.0	12	<0.20	0.92	1.6	5.1	<0.20	<0.10	<0.20	1.8	<0.40	<0.05
T	HBC05S04@BRG	8/26/2013	10:25	AB/HH/BB	220	40	60	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	4.4	3.6	13	<0.20	0.18	<0.20	2.1	<0.40	<0.05
T	HBC05S04@BRG	9/24/2013	09:18	AB/HH/BB	>200	9	>70	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	6.8	2.6	<5.00	<0.20	<0.10	<0.20	1.6	0.92	<0.05
R	HBMC@C05	5/29/2013	08:50	AB/HH/BB	>2,700	1,330	940	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	4.2	4.4	2.4	<0.50	<0.50	<0.50	1.6	1.6	<0.05
R	HBMC@C05	7/29/2013	08:49	AB/HH/BB	**360,000**	51,000	3,300	<10.0	<10.0	<10.0	<10.0	<10.0	0.36	2.2	4.6	5.8	<0.20	<0.10	<0.20	2.2	0.88	<0.05
R	HBMC@C05	8/26/2013	09:00	AB/HH/BB	5200	320	770	<10.0	<10.0	<10.0	<10.0	<10.0	0.33	1.5	4.2	8	<0.20	<0.10	<0.20	2.5	0.67	<0.05
NS	HBMC@HEIL	5/29/2013	07:40	AB/HH/BB	>3,200	530	330	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	4.2	4.2	2.8	<0.50	<0.50	<0.50	1.3	1.5	<0.05
NS	HBMC@HEIL	7/2/2013	09:05	AB/HH/BB	4,100	330	460	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	0.58	1.3	4.4	<0.50	<0.50	<0.50	0.95	1.1	<0.05
NS	HBMC@HEIL	7/29/2013	07:38	AB/HH/BB	**400,000**	8,900	11,700	<10.0	<10.0	<10.0	<10.0	<10.0	0.41	2.5	5.3	9.5	<0.20	<0.10	<0.20	2.2	0.88	<0.05
NS	HBMC@HEIL	8/26/2013	07:48	AB/HH/BB	106000	5800	5100	<10.0	<10.0	<10.0	<10.0	<10.0	0.36	**17**	4	12	<0.20	<0.10	<0.20	2.4	0.7	<0.05
NS	HBMC@HEIL	9/24/2013	07:49	AB/HH/BB	>6,800	2000	1060	<10.0	<10.0	<10.0	<10.0	<10.0	0.41	5.7	2.2	<5.00	<0.20	<0.10	<0.20	1.8	1	<0.05
R	IRVF05P07	6/10/2013	10:30	NB	>20,000	8,900	5,900	<10.0	<10.0	<10.0	<10.0	<10.0	0.53	6.4	7.7	30	<0.50	<0.50	<0.50	4.3	0.73	<0.05
R	IRVF05P07	7/24/2013	09:55	NB	>2600	90	340	<10.0	<10.0	<10.0	<10.0	<10.0	0.26	1	2.6	14	<0.20	<0.10	<0.20	2	1.3	<0.05
R	IRVF05P07	8/29/2013	10:17	NB	50000	20000	3500	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.7	3.8	7	<0.20	<0.10	<0.20	2.6	1.3	<0.05
R	IRVF05TBN1	6/17/2013	08:10	NB	>3,400	>380	590	<10.0	<10.0	<10.0	<10.0	<10.0	0.91	8.1	9.7	13	<0.50	0.54	<0.50	4.2	**12**	<0.05
R	IRVF05TBN1	8/1/2013	07:48	NB	5300	400	890	<10.0	<10.0	<10.0	<10.0	<10.0	0.31	6	12	43	<0.20	0.92	0.33	3.5	4.6	<0.05
R	IRVF05TBN1	9/25/2013	07:50	NB	>5,300	120	600	<10.0	<10.0	<10.0	<10.0	<10.0	0.39	9.4	10	13	<0.20	0.67	<0.20	3.8	4.7	<0.05
T	IRVF05TBN2	5/28/2013	10:20	NB	140	50	9	<10.0	<10.0	<10.0	<10.0	<10.0	1.3	0.98	2.6	3.7	<0.50	<0.50	<0.50	6.7	**37**	<0.05
T	IRVF05TBN2	7/1/2013	10:01	NB	>940	<9	120	<10.0	<10.0	<10.0	<10.0	<10.0	1.2	0.89	1.5	2.6	<0.50	<0.50	<0.50	5.8	**37**	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Bacteria			Pesticides					Dissolved Metals									
Criterion	Site Name	Date	Time	Watershed	Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
T	IRVF05TBN2	7/25/2013	09:35	NB	>410	20	30	<10.0	<10.0	<10.0	<10.0	<10.0	1.3	0.93	4	13	<0.20	0.14	<0.20	7	**39**	<0.05
T	IRVF05TBN2	8/15/2013	10:01	NB	730	230	99	<10.0	<10.0	<10.0	<10.0	<10.0	1.6	0.93	3.9	<5.00	<0.20	0.12	<0.20	7	**38**	<0.05
T	IRVF05TBN2	9/12/2013	10:20	NB	790	20	80	<10.0	<10.0	<10.0	<10.0	<10.0	1.3	0.88	2.4	<5.00	<0.20	0.12	<0.20	7	**40**	<0.05
T	IRVF06P06	5/28/2013	09:15	NB	>90,000	>7,000	6,100	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.4	3.6	18	<1.00	<1.00	<1.00	**7.7**	2.1	<0.05
T	IRVF06P06	7/1/2013	09:00	NB	>21,000	700	2,100	<10.0	<10.0	<10.0	<10.0	<10.0	0.58	1.2	3.8	12	<0.50	<0.50	<0.50	2.9	0.68	<0.05
T	IRVF06P06	7/25/2013	11:01	NB	>97,000	>4,300	13,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.6	2.8	5.2	22	<0.20	0.2	<0.20	6.7	1.5	<0.05
T	IRVF06P06	8/15/2013	09:00	NB	**>1,000,000**	32000	10800	<10.0	<10.0	**35**	<10.0	<10.0	<1.00	<4.00	6.7	35	<1.00	<0.50	<1.00	6.3	<2.00	<0.05
T	IRVF06P06	9/12/2013	09:04	NB	**>660,000**	20000	**42000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.22	**37**	7.7	26	<0.20	**2.1**	<0.20	2.2	**8.6**	<0.05
R	IRVF08P01	6/17/2013	09:35	NB	>112,000	45,000	20,000	<10.0	<10.0	<10.0	<10.0	<10.0	**4.4**	2.3	11	25	<0.50	<0.50	<0.50	2.9	2.7	<0.05
R	IRVF08P01	8/1/2013	09:10	NB	>108,000	24000	**52000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.8	2.2	11	39	<0.20	0.19	<0.20	3.3	1.7	<0.05
R	IRVF08P01	9/25/2013	09:10	NB	>96,000	26000	**104000**	<10.0	<10.0	<10.0	<10.0	<10.0	**4.6**	6.8	13	14	<0.20	0.66	<0.20	3.2	2.9	<0.05
T	IRVF08RCP36	5/28/2013	07:50	NB	>540	20	20	<10.0	<10.0	<10.0	<10.0	<10.0	<1.00	1.5	5.2	9.1	<1.00	<1.00	<1.00	2.7	**8.5**	<0.05
T	IRVF08RCP36	7/1/2013	07:45	NB	>4,200	250	400	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.1	2	2.7	<1.00	<1.00	<1.00	2.1	**8.1**	<0.05
T	IRVF08RCP36	7/25/2013	07:53	NB	>1,240	<9	370	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.3	4.8	9.3	<0.20	0.52	<0.20	2.8	**9.3**	<0.05
T	IRVF08RCP36	8/15/2013	07:46	NB	2800	90	210	<10.0	<10.0	<10.0	<10.0	<10.0	<2.00	<8.00	8.9	<50.00	<2.00	<1.00	<2.00	4.6	**13**	<0.05
T	IRVF08RCP36	9/12/2013	07:59	NB	9200	70	90	<10.0	<10.0	<10.0	<10.0	<10.0	0.21	1.5	6.6	15	<0.20	0.49	0.26	2.8	**9.3**	<0.05
R	IRVF20@ETGCC	6/10/2013	09:05	NB	>4,900	1,810	980	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.1	3.9	14	<0.50	<0.50	<0.50	1.9	1.1	<0.05
R	IRVF20@ETGCC	7/24/2013	08:20	NB	>2200	260	480	<10.0	<10.0	<10.0	<10.0	<10.0	0.2	1.4	4.6	17	<0.20	<0.10	<0.20	2	1.2	<0.05
R	IRVF20@ETGCC	8/29/2013	09:10	NB	53000	41000	8200	<10.0	<10.0	<10.0	<10.0	<10.0	0.52	2.3	6.8	28	<0.20	<0.10	<0.20	2.4	0.86	<0.05
R	IRVMPF15P11	6/17/2013	11:23	NB	>2,600	570	1,230	<10.0	<10.0	<10.0	<10.0	<10.0	1.2	2.4	3	4.7	<0.50	<0.50	<0.50	1.7	5	<0.05
R	IRVMPF15P11	8/1/2013	10:39	NB	25000	4900	3700	<10.0	<10.0	<10.0	<10.0	<10.0	1	2.6	7	13	<0.20	0.42	<0.20	2.1	5	<0.05
R	IRVMPF15P11	9/25/2013	10:35	NB	>5,500	350	2900	<10.0	<10.0	<10.0	<10.0	<10.0	1.1	6.3	4.9	8.5	<0.20	0.53	<0.20	1.6	5.1	<0.05
T	LAFPS@A01	5/21/2013	10:25	SGR/CC	>590	99	140	<10.0	<10.0	<10.0	<10.0	<10.0	**2.3**	2.1	**19**	29	<0.50	<0.50	<0.50	2.2	<0.50	<0.05
T	LAFPS@A01	6/25/2013	11:02	SGR/CC	>720	430	480	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.6	12	30	<0.50	<0.50	<0.50	2.9	<0.50	<0.05
T	LAFPS@A01	7/18/2013	10:52	SGR/CC	>54,000	>4,100	470	<10.0	<10.0	<10.0	<10.0	<10.0	0.45	4.1	8.5	24	<0.20	0.37	0.27	3.2	<0.40	<0.05
T	LAFPS@A01	8/20/2013	12:13	SGR/CC	>13,000	>1,030	370	<10.0	<10.0	<10.0	<10.0	<10.0	**2.1**	7.9	14	51	<0.20	0.12	**0.86**	2.4	<0.40	0.05
T	LAFPS@A01	9/17/2013	09:21	SGR/CC	>630	20	70	<10.0	<10.0	<10.0	<10.0	<10.0	1.2	8	7.9	23	<0.20	0.5	0.46	2.4	<0.40	<0.05
T	LFDIM@LFD	5/23/2013	07:50	NB																		
T	LFDIM@LFD	6/27/2013	08:40	NB	**350,000**	>39,000	940	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.9	7.8	41	<0.50	<0.50	<0.50	2.8	1.3	<0.05
T	LFDIM@LFD	7/23/2013	12:22	NB	>37,000	>3,800	8,300	<10.0	<10.0	<10.0	<10.0	<10.0	0.36	3.4	**19**	34	<0.20	0.28	<0.20	3.3	1	<0.05
T	LFDIM@LFD	8/19/2013	08:00	NB	>106,000	>11,500	22000	<10.0	<10.0	<10.0	<10.0	<10.0	0.4	6	15	42	<0.20	0.25	0.22	3.5	0.78	<0.05
T	LFDIM@LFD	9/19/2013	08:30	NB	>34,000	3200	6400	<10.0	<10.0	<10.0	<10.0	<10.0	0.27	3.4	**18**	39	<0.20	0.12	<0.20	3.1	0.69	<0.05
T	LFF19S02@PB	5/23/2013	08:15	NB	>4,600	2,000	1,490	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.7	5.8	13	<0.50	<0.50	<0.50	2.8	2.5	<0.05
T	LFF19S02@PB	6/27/2013	09:09	NB	>20,000	>3,500	880	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2	5.3	7.8	<0.50	<0.50	<0.50	2.9	2.3	<0.05
T	LFF19S02@PB	7/23/2013	11:02	NB	>33,000	>3,000	2,600	<10.0	<10.0	<10.0	<10.0	<10.0	0.39	3.5	10	34	<0.20	0.24	<0.20	4.7	3.4	<0.05
T	LFF19S02@PB	8/19/2013	09:10	NB	>34,000	>12,600	29000	<10.0	<10.0	**90**	<10.0	<10.0	<0.20	1.9	1.7	<5.00	<0.20	0.18	<0.20	3	1.4	<0.05
T	LFF19S02@PB	9/19/2013	09:20	NB	>2,600	290	830	<10.0	<10.0	<10.0	<10.0	<10.0	0.42	2.2	8.8	11	<0.20	0.12	<0.20	3	1.7	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

Criterion	Site Name	Date	Time	Watershed	Bacteria			Pesticides					Dissolved Metals									
					Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
R	LGHF23S02	6/11/2013	09:20	NB	20,000	2,100	2,400	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	7.5	4.6	11	<0.50	0.81	<0.50	**15**	**14**	<0.05
R	LGHF23S02	7/23/2013	09:49	NB	>9,000	3,200	2,800	<10.0	<10.0	<10.0	<10.0	<10.0	0.33	**14**	7.9	**74**	<0.20	**1.6**	0.4	**23**	**24**	<0.05
R	LGHF23S02	8/28/2013	10:05	NB	>40,000	2200	7000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	**13**	6.2	26	<0.20	**1.3**	<0.20	**21**	**22**	<0.05
R	LHA01P10	6/12/2013	07:35	SGR/CC	>7,600	470	3,700	<10.0	<10.0	<10.0	<10.0	<10.0	0.78	5.5	**19**	27	<0.50	<0.50	0.54	3	0.5	<0.05
R	LHA01P10	8/20/2013	08:52	SGR/CC	21000	7100	1800	<10.0	<10.0	<10.0	<10.0	<10.0	0.44	3.1	4	18	<0.20	0.1	0.27	2.8	<0.40	<0.05
R	LHA01P10	9/26/2013	07:38	SGR/CC	>8,300	30	21000	<10.0	<10.0	<10.0	<10.0	<10.0	0.83	9	13	38	<0.20	0.17	**1.4**	2.7	0.65	0.05
T	LHA07XXX	5/21/2013	08:40	SGR/CC	>26,000	4,900	30,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2	9	10	<0.50	<0.50	**8.4**	1.6	0.51	<0.05
T	LHA07XXX	6/25/2013	09:16	SGR/CC	20,000	5,400	8,300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.1	11	14	<0.50	<0.50	0.51	1.6	<0.50	<0.05
T	LHA07XXX	7/18/2013	09:12	SGR/CC	>57,000	24,000	14,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.61	1.9	7.2	7.8	<0.20	0.2	0.24	1.9	0.44	<0.05
T	LHA07XXX	8/20/2013	10:12	SGR/CC	>24,000	5300	3000	<10.0	<10.0	<10.0	<10.0	<10.0	0.47	2.2	7.4	12	<0.20	0.16	0.23	2.3	0.43	<0.05
T	LHA07XXX	9/17/2013	08:36	SGR/CC																		
R	LPB02P04	6/6/2013	10:30	SGR/CC	>6,400	>560	720	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.7	8.5	20	<0.50	<0.50	<0.50	2.8	3.2	<0.05
R	LPB02P04	8/13/2013	10:05	SGR/CC	>23,000	>430	360	<10.0	<10.0	<10.0	<10.0	<10.0	0.66	3.8	10	23	<0.20	0.24	<0.20	2.7	3.9	<0.05
R	LPB02P04	9/26/2013	09:19	SGR/CC	21000	60	410	<10.0	<10.0	<10.0	<10.0	<10.0	0.51	3.6	6.2	12	<0.20	0.3	<0.20	2.8	4.3	<0.05
R	LWF23P07@SM	6/11/2013	10:40	NB	>2,000	150	170	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.6	4.5	7.3	<0.50	<0.50	<0.50	5.2	4.7	<0.05
R	LWF23P07@SM	8/19/2013	11:44	NB	>3,800	190	170	<10.0	<10.0	<10.0	<10.0	<10.0	0.75	1.7	1.4	<5.00	<0.20	0.23	<0.20	1.8	2.5	<0.05
R	LWF23P07@SM	9/24/2013	10:53	NB	>5,600	2000	720	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	5.9	5.3	<5.00	<0.20	0.13	<0.20	6.7	6.4	<0.05
T	LWF23P09XXX	5/23/2013	10:00	NB	25,000	8,600	5,300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	**13**	3.8	5	<0.50	**1.3**	<0.50	**23**	**29**	<0.05
T	LWF23P09XXX	6/27/2013	10:47	NB	>4,900	2,000	940	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	**14**	4.8	8	<0.50	**1.5**	<0.50	**24**	**30**	<0.05
T	LWF23P09XXX	7/23/2013	08:37	NB	>4,700	>690	2,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.21	**13**	2.4	7.2	<0.20	**1.4**	<0.20	**22**	**26**	<0.05
T	LWF23P09XXX	8/19/2013	10:36	NB	23000	2200	3400	<10.0	<10.0	<10.0	<10.0	<10.0	0.2	**15**	3.7	6	<0.20	**1.7**	<0.20	**23**	**31**	<0.05
T	LWF23P09XXX	9/19/2013	10:32	NB	>5,200	230	2000	<10.0	<10.0	<10.0	<10.0	<10.0	0.22	**16**	3	6	<0.20	**1.6**	<0.20	**22**	**28**	<0.05
T	NBBCW@JAM	5/14/2013	10:10	NB	>3,200	690	940	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	5.3	5.9	6.3	<0.50	<0.50	<0.50	2	5.2	<0.05
T	NBBCW@JAM	6/18/2013	10:25	NB	>730	>300	580	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	5.8	2	2.3	<0.50	<0.50	<0.50	2	5.9	<0.05
T	NBBCW@JAM	7/10/2013	10:54	NB	>2,400	460	670	<10.0	<10.0	<10.0	<10.0	<10.0	0.2	6.5	1.6	<5.00	<0.20	0.29	<0.20	2.2	6.1	<0.05
T	NBBCW@JAM	8/6/2013	10:16	NB	>32,000	>250	3700	<10.0	<10.0	<10.0	<10.0	<10.0	0.21	6.1	2	<5.00	<0.20	0.32	<0.20	2.6	5.6	<0.05
T	NBBCW@JAM	9/3/2013	10:50	NB	>800	250	440	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	6.2	2.1	<5.00	<0.20	0.37	<0.20	2.2	6.8	<0.05
T	NBG02P01	5/2/2013	08:00	NB	>5,200	2,600	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.6	9.1	14	<0.50	<0.50	0.5	2.6	0.58	<0.05
T	NBG02P01	6/5/2013	07:40	NB	9,400	3,000	900	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	4.7	6.1	15	<0.50	<0.50	<0.50	3.1	<0.50	<0.05
T	NBG02P01	7/10/2013	09:18	NB	**>67,000,000**	**21,000,000**	**40,000**	<10.0	<10.0	<10.0	<10.0	<10.0	1.1	9.4	**16**	<5.00	<0.20	0.2	**1.1**	5	1.1	<0.05
T	NBG02P01	8/6/2013	09:05	NB	>7,800	>330	3400	<10.0	<10.0	<10.0	<10.0	<10.0	0.44	2.6	7	6.2	<0.20	<0.10	<0.20	3.1	0.53	<0.05
T	NBG02P01	9/3/2013	09:48	NB	>480	70	30	<10.0	<10.0	<10.0	<10.0	<10.0	0.23	3.2	4.4	11	<0.20	<0.10	<0.20	2.3	0.6	<0.05
T	NBG02P02	5/2/2013	07:30	NB																		
T	NBG02P02	6/5/2013	08:55	NB																		
T	NBG02P02	7/10/2013	09:08	NB																		
T	NBG02P02	8/6/2013	08:35	NB																		
T	NBG02P02	9/3/2013	08:50	NB	28000	2800	8000	<10.0	<10.0	<10.0	<10.0	<10.0	0.43	3.5	7.3	**130**	<0.20	0.18	**1.1**	3	1.7	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

Criterion	Site Name	Date	Time	Watershed	Bacteria			Pesticides					Dissolved Metals									
					Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
T	ORGBGE07S03	5/14/2013	07:10	SAR	20,000	3,700	4,900	<10.0	<10.0	<10.0	<10.0	<10.0	**2.6**	2.4	8.6	53	<0.50	0.7	<0.50	1.1	0.92	<0.05
T	ORGBGE07S03	6/18/2013	07:16	SAR	>29,000	21,000	10,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2	3.6	22	<0.50	<0.50	<0.50	1.4	0.87	<0.05
T	ORGBGE07S03	7/2/2013	07:15	SAR	>22,000	8,200	7,300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.2	2.9	18	<0.50	<0.50	<0.50	1.1	0.86	<0.05
T	ORGBGE07S03	8/6/2013	07:10	SAR	19000	4600	3100	<10.0	<10.0	<10.0	<10.0	<10.0	0.46	1.6	2.6	19	<0.20	0.22	<0.20	1.3	0.75	<0.05
T	ORGBGE07S03	9/3/2013	07:20	SAR	31000	400	3100	<10.0	<10.0	<10.0	<10.0	<10.0	0.35	3.2	4.2	36	<0.20	0.16	0.2	1.4	0.86	<0.05
T	PLSE03S01@MJ	5/13/2013	07:15	SAR	>42,000	730	770	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.6	3.3	10	<0.50	<0.50	<0.50	2.2	0.5	<0.05
T	PLSE03S01@MJ	6/19/2013	07:05	SAR	>720	>130	230	<10.0	<10.0	**26**	<10.0	<10.0	<0.50	2.3	6.4	13	<0.50	<0.50	<0.50	2.9	0.86	<0.05
T	PLSE03S01@MJ	7/15/2013	07:13	SAR	>4,600	360	300	<10.0	<10.0	**500**	<10.0	<10.0	0.51	2.6	6.2	11	<0.20	<0.10	<0.20	2.8	0.99	<0.05
T	PLSE03S01@MJ	8/7/2013	08:32	SAR	>1,170	20	80	<10.0	<10.0	<10.0	<10.0	<10.0	0.29	2.2	3.1	6.2	<0.20	<0.10	<0.20	2.9	0.96	<0.05
T	PLSE03S01@MJ	9/4/2013	08:45	SAR	>5,900	290	440	<10.0	<10.0	**28**	<10.0	<10.0	0.28	5	5.7	8.9	<0.20	<0.10	<0.20	3.3	1.5	<0.05
T	SAE01@17TH	5/16/2013	10:30	SAR	>2,700	210	240	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	3.3	13	55	<0.50	<0.50	<0.50	2.4	0.54	<0.05
T	SAE01@17TH	6/20/2013	10:55	SAR	>44,000	6,600	2,200	<10.0	<10.0	<10.0	<10.0	<10.0	0.62	6.8	**16**	**110**	<0.50	<0.50	**1.2**	2.7	1.6	<0.05
T	SAE01@17TH	7/16/2013	10:20	SAR	80	50	9	<10.0	<10.0	<10.0	<10.0	<10.0	1.4	1.6	12	25	0.35	0.1	0.22	2.2	2.4	<0.05
T	SAE01@17TH	8/12/2013	11:04	SAR	>19,000	>600	3900	<10.0	<10.0	<10.0	<10.0	<10.0	0.24	3	11	34	<0.20	0.1	0.3	2.4	1.1	<0.05
T	SAE01@17TH	9/16/2013	10:35	SAR	>2,100	50	460	<10.0	<10.0	<10.0	<10.0	<10.0	0.26	2.7	12	24	<0.20	<0.10	<0.20	2.6	0.99	<0.05
NS	SAF01@FLR&RR	5/16/2013	09:00	NB	6,000	2,200	1,900	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.9	3	14	<0.50	<0.50	<0.50	0.87	**9.9**	<0.05
NS	SAF01@FLR&RR	6/20/2013	09:25	NB	>3,600	790	910	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	9.1	4.3	11	<0.50	0.58	<0.50	0.85	**11**	<0.05
NS	SAF01@FLR&RR	7/16/2013	08:58	NB	14,000	2,000	4,200	<10.0	<10.0	<10.0	<10.0	<10.0	0.23	1.8	4	16	<0.20	0.2	<0.20	0.93	**10**	<0.05
NS	SAF01@FLR&RR	8/12/2013	09:19	NB	>47,000	8500	**>156,000**	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.6	5.6	14	<0.20	0.19	<0.20	1	**11**	<0.05
NS	SAF01@FLR&RR	9/16/2013	09:14	NB	>45,000	11900	3400	<10.0	<10.0	<10.0	<10.0	<10.0	0.2	1.7	3.5	12	<0.20	0.16	<0.20	0.96	**9.3**	<0.05
T	SAF08@DYR&55	5/16/2013	07:35	NB	>68,000	>6,400	22,000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2	10	26	<0.50	<0.50	<0.50	2.6	1.2	<0.05
T	SAF08@DYR&55	6/20/2013	07:50	NB	>113,000	9,400	**154,000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.53	3.8	5.9	14	<0.50	0.78	<0.50	1.3	1.3	<0.05
T	SAF08@DYR&55	7/16/2013	07:45	NB	>129,000	28,000	**133,000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.3	2.7	6.6	19	<0.20	0.32	<0.20	2.2	1.1	<0.05
T	SAF08@DYR&55	8/12/2013	07:40	NB	>115,000	22000	**144000**	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.5	2.7	8.4	<0.20	<0.10	<0.20	2.3	1.2	<0.05
T	SAF08@DYR&55	9/16/2013	07:35	NB	22000	680	8800	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	2	5.9	15	<0.20	0.22	<0.20	2.3	1	<0.05
T	TTF07P01	5/22/2013	07:25	NB	24,000	5,600	5,300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	<0.50	2.4	6.7	<0.50	<0.50	<0.50	1.2	1	<0.05
T	TTF07P01	6/26/2013	07:30	NB	>42,000	2,800	1,540	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.1	7.1	25	<0.50	<0.50	<0.50	1.9	0.98	<0.05
T	TTF07P01	7/22/2013	07:29	NB	**>890,000**	14,000	3,500	<10.0	<10.0	<10.0	<10.0	<10.0	0.4	1.8	11	33	<0.20	0.11	0.26	1.8	0.75	<0.05
T	TTF07P01	8/14/2013	08:27	NB	**360000**	21000	6900	<10.0	<10.0	<10.0	<10.0	<10.0	0.31	1.8	8.5	45	<0.20	<0.10	0.43	1.7	0.94	<0.05
T	TTF07P01	9/11/2013	07:21	NB	23000	3600	1000	<10.0	<10.0	<10.0	<10.0	<10.0	0.24	<0.80	3	7.7	<0.20	<0.10	<0.20	1.2	0.99	<0.05
R	TTF07P04	6/11/2013	07:30	NB	>7,800	2,300	580	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.8	14	35	<0.50	<0.50	<0.50	3.1	1.2	<0.05
R	TTF07P04	7/22/2013	08:34	NB	>74,000	6,800	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	**1.8**	4.8	8.7	27	<0.20	<0.10	0.3	2.7	0.85	<0.05
R	TTF07P04	8/28/2013	07:27	NB	>40,000	>1,500	3800	<10.0	<10.0	<10.0	<10.0	<10.0	0.26	2.2	7.6	17	<0.20	<0.10	0.26	2.2	0.85	<0.05
T	TTF12@VANLN	5/22/2013	09:55	NB	>76,000	42,000	8,600	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.1	11	11	<0.50	<0.50	<0.50	1.3	0.71	<0.05
T	TTF12@VANLN	6/26/2013	09:35	NB	>189,000	24,000	**34,000**	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	0.74	6.5	7.6	<0.50	<0.50	<0.50	1.2	0.77	<0.05
T	TTF12@VANLN	7/22/2013	10:47	NB	>55,000	29,000	29,000	<10.0	<10.0	<10.0	<10.0	<10.0	0.47	1.2	8.6	12	<0.20	<0.10	<0.20	1.2	0.69	<0.05
T	TTF12@VANLN	8/14/2013	07:20	NB	>14,000	30	<9	<10.0	<10.0	<10.0	<10.0	<10.0	0.54	0.87	**150**	11	<0.20	<0.10	<0.20	1.2	0.83	<0.05

Table 16: SAR Dry Weather MS4 Reconnaissance Monitoring: 2013

					Bacteria			Pesticides					Dissolved Metals									
Criterion	Site Name	Date	Time	Watershed	Total Coliform	Fecal Coliform	Enterococcus	Diazinon	Chlorpyrifos	Malathion	Dimethoate	Disulfoton	Chromium	Nickel	Copper	Zinc	Silver	Cadmium	Lead	Arsenic	Selenium	Mercury
					CFU/100mL			ng/L					µg/L									
1	**Outside Tolerance Interval**				**320,000**	**76,321**	**31,000**	**20**	**20**	**20**	**20**	**20**	**1.62**	**12**	**15**	**59**	**0.5**	**0.96**	**0.75**	**7.2**	**7.4**	**0.1**
2	Basin Plan Objective																					
3	Out of Bounds for Site																					
4	Warning Level based on Experience																					
5	CTR Acute Criterion												1707.86	1512.89	49.62	379.3	37.44	19.1	280.01			
6	CTR Chronic Criterion												554.01	168.04	29.28	382.4		6.25	10.91			
7	LC_{50} for Toxicity Test Organism							450	570	5000	43000											
	Targeted Site	Random Site																				
	New Site 2013																					
T	TTF12@VANLN	9/11/2013	09:57	NB	28000	7400	4400	<10.0	<10.0	<10.0	<10.0	<10.0	0.39	<0.80	4.1	26	<0.20	0.12	<0.20	0.86	0.61	<0.05
T	VPRCP@CYNCIR	5/14/2013	08:40	SAR	47,000	27,000	7,300	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	3.8	6.5	12	<0.50	<0.50	<0.50	2.1	1	<0.05
T	VPRCP@CYNCIR	6/18/2013	09:00	SAR	>24,000	>3,100	7,200	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.6	4.7	8.1	<0.50	<0.50	<0.50	2	1.3	<0.05
T	VPRCP@CYNCIR	7/24/2013	11:50	SAR	>27000	>4100	7400	<10.0	<10.0	<10.0	<10.0	<10.0	0.29	2.1	6.2	6.5	<0.20	<0.10	<0.20	2.6	1.2	<0.05
T	VPRCP@CYNCIR	8/7/2013	07:21	SAR	>38,000	>2,100	**34000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.31	1.8	4.6	5.8	<0.20	<0.10	<0.20	2.9	1.1	<0.05
T	VPRCP@CYNCIR	9/4/2013	07:18	SAR	>56,000	10000	**36000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.22	3.8	6.8	6.4	<0.20	0.11	<0.20	3	1.5	<0.05
T	WMBA@C02	5/15/2013	08:05	AB/HH/BB	>23,000	>600	13,800	<10.0	<10.0	<10.0	<10.0	<10.0	0.74	1.7	15	27	<0.50	<0.50	<0.50	6	3	<0.05
T	WMBA@C02	6/13/2013	08:05	AB/HH/BB	>1,500	>600	290	<10.0	<10.0	<10.0	<10.0	<10.0	1.1	1.6	11	11	<0.50	<0.50	<0.50	**8.1**	2.8	<0.05
T	WMBA@C02	7/11/2013	09:04	AB/HH/BB	>5,800	>230	980	<10.0	<10.0	<10.0	<10.0	<10.0	0.76	2.3	9.3	11	<0.20	0.3	0.25	5.9	2.5	<0.05
T	WMBA@C02	8/8/2013	07:55	AB/HH/BB	>2,400	40	380	<10.0	<10.0	<10.0	<10.0	<10.0	0.57	1.8	8.9	14	<0.20	0.24	0.21	5	2	<0.05
T	WMBA@C02	9/5/2013	08:18	AB/HH/BB	>10,400	1700	910	<10.0	<10.0	<10.0	<10.0	<10.0	0.57	2.6	12	18	<0.20	0.38	<0.20	5.7	2	<0.05
T	WMC03HEFRCP	5/15/2013	07:35	AB/HH/BB																		
T	WMC03HEFRCP	6/13/2013	07:25	AB/HH/BB																		
T	WMC03HEFRCP	7/11/2013	08:30	AB/HH/BB	>7,300	>130	3,200	<10.0	<10.0	<10.0	<10.0	<10.0	0.92	1.4	8.3	38	<0.20	**2**	**1**	3.7	1.1	<0.05
T	WMC03HEFRCP	8/8/2013	07:29	AB/HH/BB																		
T	WMC03HEFRCP	9/5/2013	07:37	AB/HH/BB																		
R	WMC05S01@WA	6/6/2013	09:04	AB/HH/BB	>10,200	6,700	1,360	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	0.83	2.7	5.2	<0.50	<0.50	<0.50	2.6	2.2	<0.05
R	WMC05S01@WA	7/11/2013	10:17	AB/HH/BB	>25,000	>1,000	2,400	<10.0	<10.0	<10.0	<10.0	<10.0	0.28	1.2	3.6	5.2	<0.20	<0.10	<0.20	3.4	3.4	<0.05
R	WMC05S01@WA	8/27/2013	10:15	AB/HH/BB	>52,000	>4,600	21000	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	1.6	3.6	<5.00	<0.20	0.16	<0.20	**7.5**	3.8	<0.05
T	YLE01@VLDYE	5/13/2013	10:20	SAR	32,000	4,900	4,400	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	3	4.6	10	<0.50	<0.50	<0.50	1.3	6.3	<0.05
T	YLE01@VLDYE	6/19/2013	10:24	SAR	>8,400	1,200	3,600	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.9	3.3	5.8	<0.50	<0.50	<0.50	1.4	7.3	<0.05
T	YLE01@VLDYE	7/15/2013	10:05	SAR	>47,000	34,000	22,000	<10.0	<10.0	<10.0	<10.0	<10.0	0.22	3.1	3.6	6.3	<0.20	0.12	<0.20	1.6	6.4	<0.05
T	YLE01@VLDYE	8/7/2013	10:46	SAR	>11,800	>210	4600	<10.0	<10.0	<10.0	<10.0	<10.0	0.2	3.3	1.2	<5.00	<0.20	<0.10	<0.20	2	**8.2**	<0.05
T	YLE01@VLDYE	9/4/2013	10:52	SAR	23000	3700	**41000**	<10.0	<10.0	<10.0	<10.0	<10.0	0.27	8.4	2.6	5.5	<0.20	0.11	<0.20	1.9	**9.1**	<0.05
T	YLE01MIROUT	5/13/2013	09:00	SAR	>4,700	2,400	410	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	1.8	7.1	37	<0.50	<0.50	<0.50	1.9	0.82	<0.05
T	YLE01MIROUT	6/19/2013	09:20	SAR	>10,400	2,900	6,800	<10.0	<10.0	<10.0	<10.0	<10.0	<0.50	2.7	5.6	13	<0.50	<0.50	<0.50	2.8	<0.50	<0.05
T	YLE01MIROUT	7/15/2013	08:39	SAR	26,000	5,300	>11,800	<10.0	<10.0	<10.0	<10.0	<10.0	0.23	2.7	3.3	8.6	<0.20	<0.10	<0.20	2.6	0.49	<0.05
T	YLE01MIROUT	8/7/2013	09:49	SAR	>60,000	>3,700	5400	<10.0	<10.0	<10.0	<10.0	<10.0	0.24	1.5	6.2	22	<0.20	0.11	<0.20	2.6	1.2	<0.05
T	YLE01MIROUT	9/4/2013	09:53	SAR	>90,000	24000	13400	<10.0	<10.0	<10.0	<10.0	<10.0	<0.20	3.3	6.4	19	<0.20	<0.10	<0.20	2.6	1.4	<0.05