APPENDIX F

CHEMISTRY DATA

Chemistry Summary Tables

Water

Table F-1. 2018 RHMP Water Chemistry Results Summary Table

Harbor	Strata	Sample ID	Conventionals (mg/L)								Total PAHs (ng/L)	Dissolved Trace Metals (µg/L)																					
			Dissolved Organic Carbon	Total Organic Carbon	Total Suspended Solids	Ammonia-N	Nitrate-N[1]	Total Orthophosphate as P[1]	Oil & Grease	Methylene Blue Active Substance		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron (Fe)	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc
Dana Point Harbor	Deep	B18-10068	1.22	1.33	13.1	0.0239 J	0.0266	0.0236	< 1.00	0.0255	1.07 J	7.83	0.115	1.33	5.46	0.00607 J	0.0471	0.190	0.0178	2.50	< 0.500	0.0200	2.47	< 0.01	9.21	0.239	< 0.005	< 0.01	0.0093 J	< 0.005	18.1	1.95	8.46
	Freshwater-Influenced	B18-10066	1.03	1.35	8.05	0.0143 J	0.0183 J	0.0207	< 1.00	0.0145 J	< 1.00	6.19	0.124	1.37	5.80	0.0150	0.0785	0.157	0.0535	11.3	0.538 J	0.0601	5.26	< 0.01	8.98	0.604	< 0.005	< 0.01	0.00763 J	< 0.005	17.7	1.85	25.5
	Marina	B18-10067	1.30	1.32	9.25	< 0.007	0.0105 J	0.0214	< 1.00	0.0145 J	< 1.00	4.98 J	0.112	1.35	5.32	0.00646 J	0.0441	0.162	0.0123	7.47	0.533 J	0.0387	2.16	< 0.01	8.96	0.252	< 0.005	< 0.01	0.00718 J	0.00849 J	22.7	1.89	15.0
	Shallow	B18-10065	1.34	1.05	4.35	0.0153 J	0.0325	0.0201	< 1.00	0.0182 J	< 1.00	4.48 J	0.107	1.35	5.81	0.0117	0.0423	0.181	0.00977 J	4.58	< 0.500	0.0289	1.72	< 0.01	9.08	0.222	< 0.005	< 0.01	0.00986 J	0.0180	19.7	1.90	10.6
Oceanside Harbor	Deep	B18-10071	1.32	1.28	11.9	< 0.007	< 0.01	0.0209	< 1.00	0.052	3.57	3.54 J	0.124	1.59	3.73	< 0.005	0.0328	0.149	< 0.005	1.48	< 0.500	< 0.0025	2.52	< 0.01	9.64	0.194	0.0206	< 0.01	0.007 J	0.0194	12.1	2.01	6.13
	Freshwater-Influenced	B18-10070	1.29	1.23	6.20	< 0.007	< 0.01	0.0209	< 1.00	0.0469	< 1.00	16.1	0.132	1.67	4.77	< 0.005	0.0418	0.332	< 0.005	5.68	< 0.500	0.0059	3.83	< 0.01	9.59	0.206	0.0212	< 0.01	0.00629 J	0.160	14.1	2.17	16.9
	Marina	B18-10069	1.31	1.47	7.55	< 0.007	0.0144 J	0.0284	< 1.00	0.031	< 1.00	3.47 J	0.111	1.56	6.88	< 0.005	0.0317	0.112	0.0166	7.46	< 0.500	0.0226	4.53	< 0.01	9.24	0.202	0.0146 J	< 0.01	< 0.005	< 0.005	16.1	2.15	18.6
		B18-10072	1.16	1.22	8.80	0.0193 J	0.0253	0.0272	< 1.00	0.011 J	< 1.00	3.18 J	0.114	1.62	6.94	< 0.005	0.0411	0.137	< 0.005	6.13	0.785 J	< 0.0025	13.80	< 0.01	9.16	0.201	0.011 J	< 0.01	< 0.005	0.00759 J	15.1	2.08	33.7
Mission Bay	Deep	B18-10019	1.30	1.56	12.2	< 0.007	< 0.01	0.0227	< 1.00	0.0255	4.05	< 3.00	0.116	1.39	5.55	< 0.005	0.0251	0.0987	0.00838 J	1.34	< 0.500	0.0256	2.89	< 0.01	9.45	0.203	0.00924 J	< 0.01	< 0.005	< 0.005	17.2	2.09	0.629
		B18-10020	1.40	1.65	3.45	0.0175 J	0.0267	0.0222	< 1.00	0.0192 J	< 1.00	< 3.00	0.111	1.37	4.20	< 0.005	0.0269	0.136	< 0.005	0.86	0.849 J	0.0300	1.27	< 0.01	8.79	0.221	0.0249	< 0.01	< 0.005	0.0340	10.5	1.95	2.58
	Freshwater-Influenced	B18-10015	1.98	1.77	8.90	< 0.007	< 0.01	0.0410	< 1.00	0.0296	< 1.00	14	0.143	1.84	18.6	< 0.005	0.0675	0.270	0.1200	1.24	1.23	0.0594	20.5	< 0.01	9.59	0.403	0.0445	< 0.01	< 0.005	0.0171	10.3	2.59	1.92
	Marina	B18-10074	1.95	2.19	7.60	< 0.007	< 0.01	0.0246	< 1.00	0.0278	< 1.00	< 3.00	0.113	1.35	4.37	< 0.005	0.0214	0.104	< 0.005	1.10	0.854 J	0.0216	2.11	< 0.01	8.75	0.189	< 0.005	< 0.01	< 0.005	< 0.005	10.4	2.09	3.57
		B18-10075	1.28	1.44	4.20	0.026 J	< 0.01	0.0310	< 1.00	0.0242 J	< 1.00	< 3.00	0.114	1.38	5.88	< 0.005	0.0306	0.0950	0.0106	1.37	0.785 J	0.0382	2.94	< 0.01	8.83	0.202	0.00707 J	< 0.01	< 0.005	< 0.005	11.2	2.07	3.22
	Shallow	B18-10016	1.69	1.99	4.15	< 0.007	< 0.01	0.0196 J	< 1.00	0.0233 J	< 1.00	< 3.00	0.115	1.39	5.69	< 0.005	0.0425	0.113	0.0329	0.87	0.891 J	0.0421	3.14	< 0.01	9.06	0.217	0.0390	< 0.01	< 0.005	0.0103	10.1	2.27	0.495
		B18-10017	1.60	2.09	3.90	0.0159 J	< 0.01	0.0513	< 1.00	0.0274	< 1.00	4.51 J	0.139	2.02	10.7	< 0.005	0.0421	0.0436	0.4910	1.17	1.05	0.0427	21.70	< 0.01	9.04	0.302	0.0479	< 0.01	0.00736 J	0.0538	10.3	2.68	0.707
		B18-10073	1.71	1.81	4.60	< 0.007	< 0.01	0.0219	< 1.00	0.0237 J	< 1.00	< 3.00	0.118	1.39	3.81	< 0.005	0.0253	0.127	0.0202	1.02	0.725 J	0.0322	2.10	< 0.01	8.86	0.190	0.0116 J	< 0.01	< 0.005	< 0.005	12.5	2.20	2.84
		B18-10438 (overdraw)	1.75	1.92	4.50	< 0.007	< 0.01	0.0332	< 1.00	0.0201 J	1.10 J	< 3.00	0.143	1.44	7.78	< 0.005	0.0309	0.0590	0.0368	1.22	1.73	0.0117	5.51	< 0.01	9.03	0.202	0.0189	< 0.01	< 0.005	< 0.005	11.0	1.84	1.28
San Diego Bay - North	Deep	B18-10022	1.82	2.13	4.25	0.0779	< 0.01	0.0219	< 1.00	0.0182 J	8.76	< 3.00	0.130	1.35	6.29	0.00747 J	0.0220	< 0.0125	0.0329	1.77	< 0.500	< 0.0025	2.32	< 0.01	9.40	0.300	0.0155	< 0.01	0.00819 J	< 0.005	21.5	2.26	5.69
		B18-10023	1.48	1.09	7.90	0.0146 J	< 0.01	0.018 J	< 1.00	0.0064 J	2.27	< 3.00	0.123	1.30	5.60	0.00891 J	0.0236	0.193	< 0.005	0.18	< 0.500	< 0.0025	0.89	< 0.01	8.90	0.198	0.0220	0.0999	< 0.005	< 0.005	18.0	2.22	3.14
		B18-10024	1.55	1.61	3.65	0.0173 J	0.0119 J	0.0282	< 1.00	0.0191 J	5.91	< 3.00	0.128	1.24	8.09	< 0.005	0.0310	< 0.0125	0.9150	0.90	< 0.500	< 0.0025	2.40	< 0.01	8.89	0.299	0.0172	< 0.01	0.00604 J	< 0.005	15.5	2.20	3.46
		B18-10030	1.38	1.64	8.45	0.0072 J	< 0.01	0.0181 J	< 1.00	0.0092 J	15.7	< 3.00	0.159	1.40	5.69	0.0113	0.0275	0.199	< 0.005	0.76	< 0.500	< 0.0025	1.54	< 0.01	8.83	0.252	0.0139 J	0.0459	< 0.005	< 0.005	28.8	2.40	2.19
		B18-10112	1.58	1.76	2.70	0.0392	0.0227	0.0271	< 1.00	0.0314	25.2	< 3.00	0.143	1.34	6.87	< 0.005	0.0752	< 0.0125	0.0313	0.85	< 0.500	0.1020	2.99	< 0.01	9.26	0.299	0.0200	< 0.01	< 0.005	0.00832 J	16.0	2.13	3.80
		B18-10113	1.58	1.87	2.65	0.0619	0.0242	0.0253	< 1.00	0.0068 J	24.7	3.47 J	0.127	1.50	9.79	0.00687 J	0.0234	< 0.0125	0.0385	0.81	< 0.500	< 0.0025	3.50	< 0.01	9.41	0.325	0.0235	< 0.01	< 0.005	< 0.005	32.8	2.37	3.49
		B18-10116	1.65	1.62	5.45	0.0246 J	< 0.01	0.0378	< 1.00	0.0155 J	6.90	< 3.00	0.140	1.33	9.14	0.00549 J	0.0281	0.0531	0.0451	1.56	< 0.500	< 0.0025	3.47	< 0.01	9.60	0.375	0.0225	< 0.01	0.00736 J	< 0.005	22.0	2.30	4.28
		B18-10117	1.50	1.75	12.4	0.0085 J	< 0.01	0.0301	< 1.00	0.0101 J	5.71	< 3.00	0.133	1.45	5.68	0.0114	0.0710	0.128	< 0.005	0.70	< 0.500	< 0.0025	1.37	< 0.01	8.79	0.314	0.0155	< 0.01	< 0.005	< 0.005	13.7	2.41	8.40
	Freshwater-Influenced	B18-10029	1.65	1.55	3.55	0.0203 J	0.021	0.0303	< 1.00	0.0159 J	10.7	< 3.00	0.143	1.27	7.12	< 0.005	0.0228	< 0.0125	0.0430	1.32	< 0.500	< 0.0025	4.71	< 0.01	9.18	0.338	0.0216	< 0.01	0.00563 J	0.00621 J	11.3	2.16	4.50
		B18-10076	1.66	1.68	3.90	0.0087 J	< 0.01	0.0321	< 1.00	0.0127 J	9.99	< 3.00	0.127	1.28	7.33	< 0.005	0.0664	< 0.0125	0.0390	1.24	< 0.500	0.0888	3.59	< 0.01	9.29	0.322	0.0171	< 0.01	0.00603 J	0.00613 J	16.4	2.20	5.85
	Industrial/Port	B18-10114	1.75	1.69	3.65	0.0193 J	0.0168 J	0.0210	< 1.00	0.0191 J	6.79	< 3.00	0.144	1.42	7.41	0.0056 J	0.0212	< 0.0125	0.0499	1.44	< 0.500	< 0.0025	4.50	< 0.01	9.13	0.361	0.0183	< 0.01	0.00773 J	< 0.005	33.8	2.44	5.65
		B18-10115	1.70	1.75	3.35	0.0298 J	0.0185 J	0.0344	< 1.00	0.0173 J	16.5	< 3.00	0.147	1.34	7.53	< 0.005	0.0274	< 0.0125	0.0542	1.55	< 0.500	< 0.0025	5.69	< 0.01	9.18	0.372	0.0256	< 0.01	< 0.005	0.0185	26.2	2.37	5.88
	Marina	B18-10078	1.43	1.64	12.4	0.021 J	< 0.01	0.0326	< 1.00	< 0.005	12.2	< 3.00	0.149	1.47	6.38	< 0.005	0.0358	0.141	< 0.005	3.59	0.684 J	< 0.0025	2.42	< 0.01	8.39	0.302	0.0155	< 0.01	< 0.005	0.103	12.5	2.38	10.40
		B18-10079	1.55	1.62	9.90	0.0164 J	< 0.01	0.0324	< 1.00	0.0215 J	19.2	< 3.00	0.142	1.39	7.49	< 0.005	0.0348	0.125	< 0.005	1.79	< 0.500	< 0.0025	1.94	< 0.01	9.04	0.299	0.0150	< 0.01	< 0.005	< 0.005	12.1	2.35	6.36
		B18-10080	1.80	1.78	5.40	0.0254 J	< 0.01	0.0275	< 1.00	0.0101 J	5.87	< 3.00	0.151	1.49	5.77	0.0205	0.0463	0.151	< 0.005	9.61	< 0.500	< 0.0025	2.33	< 0.01	9.01	0.281	0.0164	< 0.01	< 0.005	0.0122	18.0	2.30	27.0
		B18-10081	1.68	1.61	11.2	0.0171 J	< 0.01	0.0254	< 1.00	0.0087 J	3.98	3.33 J	0.144	1.34	5.58	< 0.005	0.0658	0.117	< 0.005	8.80	< 0.500	< 0.0025	2.28	< 0.01	9.71	0.303	0.0229	< 0.01	< 0.005	< 0.005	9.39	2.19	23.2
		B18-10082	1.53	1.60	5.90	0.015 J	< 0.01	0.0262	< 1.00	0.0069 J	2.73	3.35 J	0.126	1.49	6.12	< 0.005	0.0417	0.137	< 0.005	9.16	< 0.500	< 0.0025	2.23	< 0.01	8.66	0.249	0.0072 J	< 0.01	< 0.005	< 0.005	17.8	2.49	26.3
		B18-10083	1.28	1.36	11.3	0.0159 J	< 0.01	0.0258	< 1.00	< 0.005	13.8	3.02 J	0.132	1.33	4.66	< 0.005	0.0382	0.161	< 0.005	5.71	< 0.500	< 0.0025	2.10	< 0.01	8.83	0.287	0.0127 J	< 0.01	< 0.005	< 0.005	13.2	2.44	18.2
		B18-10084	1.50	1.58	5.85	0.0141 J	< 0.01	0.0243	< 1.00	0.0178 J	10.2	3.18 J	0.132	1.26	5.63	0.0172	0.0355	0.138	< 0.005	3.39	< 0.500	< 0.0025	1.80	< 0.01	8.85	0.277	< 0.005	< 0.01	< 0.005	< 0.005	14.1	2.25	18.4
	Shallow	B18-10077	1.91	2.09	5.85	0.0333	< 0.01	0.0326	< 1.00	0.0191 J	11.8	< 3.00	0.133	1.29	8.83	< 0.005	0.0322	< 0.0125	0.0439	1.08	< 0.500	< 0.0025	3.38	< 0.01	9.39	0.353	0.0230	< 0.01	0.00686 J	< 0.005	18.0	2.22	5.66
San Diego Bay - Central	Deep	B18-10133	1.73	1.75	2.89	0.0175 J	< 0.01	0.0383	< 1.00	0.0109 J	10.1	< 3.00	0.149	1.36	8.21	< 0.005	0.0645	0.115	< 0.005	3.40	1.09	0.0729	8.19	< 0.01	9.42	0.597	0.0161	0.0154 J	< 0.005	< 0.005	17.5	2.40	4.95
		B18-10141	1.76	1.83	4.70	0.0182 J	< 0.01	0.0461	< 1.00	< 0.005	11.8	< 3.00	0.135	1.45	9.54	0.0104	0.0418	0.0375	0.0614	3.30	< 0.500	< 0.0025	7.93	< 0.01	9.08	0.454	0.00855 J	< 0.01	0.0126	0.00845 J	9.17	2.33	4.69
		B18-10144	1.44	2.04	5.40	0.0487	< 0.01	0.0441	< 1.00	0.0424	13.6	< 3.00	0.171	1.40	10.5	< 0.005	0.0588	< 0.0125	0.0728	2.81	0.764 J	< 0.0025	9.71	< 0.01	9.07	0.588	0.0157	< 0.01	0.00521 J	0.0108	8.23	2.62	3.94
	Freshwater-Influenced	B18-10031	1.67	2.10	4.50	0.0207 J	0.0107 J	0.0404	< 1.00	0.0055 J	12.6	< 3.00	0.134	1.52	8.18	< 0.005	0.0569	0.108	0.0545	3.20	< 0.500	0.0328	6.92	< 0.01	8.10	0.489	0.0126 J	< 0.01	< 0.005	0.0062 J	20.3	2.43	7.40
		B18-10178	1.99	1.71	3.60	0.0296 J	0.011 J	0.0412	< 1.00	0.0146 J	32.1	3.04 J	0.133	1.50	8.85	0.0123	0.0552	0.0955	0.0737	2.64	0.694 J	0.0378	9.25	< 0.01	8.58	0.536	0.0194	< 0.01	< 0.005	< 0.005	26.2	2.52	7.81
	Industrial/Port	B18-10119	1.56	1.97	3.75	0.0163 J	0.0168 J	0.0344	< 1.00	0.005 J	22.1	3.51 J	0.121	1.50	9.30	< 0.005	0.0480	0.111	0.0493	2.64	< 0.500	0.0277	6.46	< 0.01	8.07	0.437	0.0206	< 0.01	< 0.005	< 0.005	30.0	2.56	7.52
		B18-10121	1.75	1.62	5.25	0.0139 J	0.0114 J	0.0331	< 1.00	0.0073 J	10.8	< 3.00	0.134	1.53	8.26	0.00545 J	0.0533	0.101	0.0515	2.94	< 0.500	0.0286	6.22	< 0.01	8.54	0.560	0.0226	< 0.01	< 0.005	< 0.005	23.1	2.43	7.52
		B18-10123	1.83	1.89	3.80	0.0109 J	0.0134 J	0.0326	< 1.00	0.0077 J	12.1	< 3.00	0.128	1.52	9.29	0.0179	0.0539	0.125	0.0515	3.36	< 0.500	0.0223	6.67	< 0.01	8.41	0.547	0.0137 J	< 0.01	< 0.005	< 0.005	24.2	2.47	5.57
		B18-10124	1.92	2.01	3.54	0.0353	< 0.01	0.0402	< 1.00	0.005 J	9.80	< 3.00	0.119	1.51	10.3	< 0.005	0.0567	0.122	0.0160	3.34	< 0.500	0.0359	8.33	< 0.01	9.10	0.513	0.0161	0.0303	< 0.005	< 0.005	18.6	2.48	4.84
		B18-10126	1.78	1.94	2.65	0.0324	< 0.01	0.0407	< 1.00	0.0173 J	17.8	< 3.00	0.116	1.56	9.81	< 0.005	0.0507	0.123	< 0.005	3.28	< 0.500	0.0367	8.19	< 0.01	9.10	0.477	0.0114 J	0.0257	< 0.005	< 0.005	20.8	2.47	5.21
		B18-10127	1.64	1.82	2.10	0.0148 J	< 0.01	0.0379	< 1.00	0.0055 J	11.3	< 3.00	0.122	1.52	10.1	< 0.005	0.0535	0.115	< 0.005	3.19	< 0.500	0.0322	8.69	< 0.01	9.26	0.484	0.00799 J	0.0149 J	< 0.005	< 0.005	21.5	2.51	4.68
		B18-10132	1.99	1.76	3.06	0.0186 J	< 0.01	0.0397	< 1.00	0.0560	11.4	< 3.00	0.138	1.39	8.03	< 0.005	0.6280	0.114	< 0.005	3.58	< 0.500	1.8500	8.64	< 0.01	9.39	0.476	0.0146 J	0.0168 J	< 0.005	0.1100	15.6	2.38	4.68
		B18-10136	1.69	1.93	3.59	0.0269 J	< 0.01	0.0457	< 1.00	0.0055 J	12.0	< 3.00	0.108	1.50	8.68	< 0.005	0.0573	0.114	< 0.005	3.19	< 0.500	0.0284	7.54	< 0.01	9.54	0.480	0.0202	0.0162 J	< 0.005	< 0.005	21.7	2.45	4.78
		B18-10137	1.84	1.72	2.45	0.0212 J	< 0.01	0.0467	< 1.00	< 0.005	12.5	3.17 J	0.116	1.63	10.0	< 0.005	0.0575	0.103	< 0.005	2.73	0.984 J	0.0459	8.56	< 0.01	8.91	0.420	0.0125 J	0.0104 J	< 0.005	< 0.005	19.9	2.43	5.04
		B18-10139	1.56	1.93	3.79	0.0311	< 0.01	0.0475	< 1.00	0.0132 J	14.5	< 3.00	0.113	1.53	8.61	< 0.005	0.0623	0.215	< 0.005	4.13	< 0.500	0.0457	8.44	< 0.01	9.05	0.482	0.0175	< 0.01	< 0.005	< 0.005	17.9	2.35	4.85
		B18-10140	1.66	1.65	3.50	0.0293 J	< 0.01	0.0472	< 1.00	0.0091 J	12.3	< 3.00	0.119	1.33	7.68	< 0.005	0.0457	0.104	< 0.005	2.90	< 0.500	0.0229	8.74	< 0.01	8.96	0.452	0.00948 J	0.0115 J	< 0.005	< 0.005	18.1	2.25	4.59
		B18-10142	1.68	1.93	4.40	0.0485	< 0.01	0.0386	< 1.00	< 0.005	19.5	< 3.00	0.107	1.40	8.67	< 0.005	0.0489	0.0500	0.0605	3.00	< 0.500	< 0.0025	9.99	< 0.01	9.23	0.485	0.0161	< 0.01	0.00544 J	0.00515 J	11.5	2.39	4.83
		B18-10143	1.50	1.94	6.90	0.0578	< 0.01	0.0417	< 1.00	0.0392	8.60	< 3.00	0.109	1.50	10.1	< 0.005	0.0455	0.0318	0.0641	2.86	< 0.500	< 0.0025	9.17	< 0.01	9.30	0.474	0.0147 J	< 0.01	0.00745 J	0.00766 J	6.75	2.52	4.25
	Shallow	B18-10032	1.89	2.03	7.55	0.014 J	< 0.01	0.0436	< 1.00	< 0.005	6.69	4.08 J	0.132	1.55	8.31	0.0109	0.0524	0.101	0.0528	2.35	< 0.500	0.0364	4.90	< 0.01	8.29	0.403	0.012 J	< 0.01	0.00671 J	< 0.005	24.3	2.58	3.68
		B18-10034	1.92	2.29	8.20	0.0392	< 0.01	0.0414	< 1.00	0.015 J	6.41	< 3.00	0.123	1.41	8.51	< 0.005	0.0392	< 0.0125	0.0666	2.47	< 0.500	0.00378 J	9.38	< 0.01	9.13	0.429	0.0153	< 0.01	0.00866 J	0.00644 J	8.39	2.60	3.37
		B18-10035	1.54	2.07	8.80	0.0678	< 0.01	0.0399	< 1.00	0.021 J	6.98	6.75	0.121	1.42	7.83	< 0.005	0.0419	< 0.0125	0.0595	2.43	< 0.500	0.00417 J	8.51	< 0.01	9.18	0.439	0.00767 J	0.0143 J	0.00904 J	0.00648 J	7.32	2.58	4.25
		B18-10036	1.91	2.27	7.70	0.0242 J	< 0.01	0.0440	< 1.00	0.0415	9.30	< 3.00	0.122	1.54	9.05	< 0.005	0.0500	< 0.0125	0.0679	2.28	< 0.500	< 0.0025	9.66	< 0.01	9.00	0.450	0.0174	< 0.01	0.00699 J	< 0.005	7.21	2.64	3.24
San Diego Bay - South	Freshwater-Influenced	B18-10037	2.51	2.24	11.3	0.013 J	< 0.01	0.0409	< 1.00	0.0189 J	4.09	< 3.00	0.149	1.50	12.9	< 0.005	0.0391	< 0.0125	0.0720	3.37	< 0.500	< 0.0025	13.2	< 0.01	9.66	0.463	0.0149 J	0.0832	0.00562 J	< 0.005	5.38	2.68	4.76
		B18-10040	2.01	1.85	3.44	0.0165 J	< 0.01	0.0427	< 1.00	0.0196 J	6.60	3.54 J	0.133	1.57	11.5	0.0410	0.0641	0.150	0.0301	3.05	1.21	0.0586	11.9	< 0.01	8.99	0.542	0.0131 J	0.0527	< 0.005	0.0187	21.2	2.82	3.15
		B18-10044	2.39	2.67	6.26	< 0.007	< 0.01	0.0466	< 1.00	0.0246 J	2.26	3.53 J	0.139	2.04	15.6	0.0341	0.0435	< 0.0125	0.0614	4.48	0.975 J	0.0144	15.7	< 0.01	8.62	0.491	0.00941 J	0.0149 J	< 0.005	0.00578 J	9.35	3.70	1.67
		B18-10179	1.86	2.05	18.4	0.0139 J	< 0.01	0.0409	< 1.00	0.0156 J	5.53	< 3.00	0.107	1.81	24.0	0.0223	0.0572	0.0397	0.0939	2.93	0.528 J	< 0.0025	22.1	< 0.01	9.38	0.400	0.0104 J	0.1120	0.0123	< 0.005	9.74	3.42	6.64
		B18-10180	2.08	2.19	13.7	0.0204 J	< 0.01	0.0401	< 1.00	0.024 J	3.56	< 3.00	0.102	1.53	16.8	< 0.005	0.0465	0.0137 J	0.0797	2.63	< 0.500	< 0.0025	15.7	< 0.01	9.45	0.445	< 0.005	0.0756	0.0126	< 0.005	7.31	2.61	4.93
		B18-10181	1.95	2.26	15.4	0.0275 J	< 0.01	0.0409	< 1.00	0.0201 J	3.17	< 3.00	0.132	1.58	20.0	0.00985 J	0.0527	< 0.0125	0.0803	2.92	0.587 J	< 0.0025	18.1	< 0.01	9.55	0.400	0.01 J	0.0654	0.0108	< 0.005	9.75	2.72	5.19
		B18-10200	1.99	2.16	6.24	0.0194 J	0.026 J	0.0402	< 1.00	0.0335	3.80	< 3.00	0.138	2.04	14.1	< 0.005	0.0450	0.0678	0.0444	5.59	0.968 J	0.0158	21.4	< 0.01	8.82	0.475	< 0.005	< 0.01	< 0.005	0.0162	8.01	4.29	3.99
	Marina	B18-10085	2.07	2.20	22.1	0.018 J	0.0255	0.0483	< 1.00	0.0228 J	5.64	< 3.00	0.123	1.49	14.1	0.00926 J	0.0544	< 0.0125	0.1130	4.54	< 0.500	< 0.0025	19.1	< 0.01	9.54	0.438	0.00807 J	0.0794	0.00952 J	0.00967 J	7.33	2.77	11.2
		B18-10086	1.63	1.76	15.9	0.016 J	0.0122 J	0.0474	< 1.00	0.0189 J	4.24	< 3.00	0.137	1.47	13.6	0.0249	0.0454	< 0.0125	0.0961	5.11	< 0.500	< 0.0025	24.1	< 0.01	9.44	0.409	< 0.005	0.0708	0.00594 J	< 0.005	6.16	3.07	12.8
		B18-10087	2.24	2.64	14.5	0.019 J	< 0.01	0.0360	< 1.00	0.0401	7.28	< 3.00	0.112	1.59	13.3	0.0167	0.0746	< 0.0125	0.0599	5.16	0.719 J	< 0.0025	14.6	< 0.01	9.42	0.463	0.0145 J	0.0704	0.00961 J	0.0103	7.12	2.82	10.7
	Shallow	B18-10038	2.04	1.88	23.6	0.018 J	< 0.01	0.0319	< 1.00	0.0212 J	5.92	< 3.00	0.149	1.52	9.07	0.0105	0.0542	0.0258	0.0788	2.38	< 0.500	< 0.0025	8.94	< 0.01	9.41	0.473	0.00658 J	0.0521	0.0130	0.00875 J	7.13	2.49	3.48
		B18-10039	1.53	1.83	5.60	0.0452	< 0.01	0.0514	< 1.00	0.0342	12.5	< 3.00	0.136	1.47	8.22	< 0.005	0.0455	< 0.0125	0.0696	2.58	< 0.500	< 0.0025	12.6	< 0.01	8.94	0.466	0.0200	< 0.01	0.00532 J	0.00582 J	7.39	2.52	3.98
		B18-10041	2.25	2.27	12.0	< 0.007	< 0.01	0.0327	< 1.00	0.0195 J	1.26 J	< 3.00	0.125	1.61	10.4	0.110	0.0466	< 0.0125	0.0483	2.45	0.563 J	< 0.0025	12.1	< 0.01	9.43	0.406	0.00763 J	0.0479	0.0104	0.00543 J	6.52	2.55	3.21
		B18-10042	2.28	1.89	11.4	0.0253 J	< 0.01	0.0357	< 1.00	0.0217 J	8.94	< 3.00	0.105	1.60	12.1	< 0.005	0.0568	< 0.0125	0.0899	2.37	0.761 J	< 0.0025	13.8	< 0.01	9.41	0.438	0.00724 J	0.0662	0.0123	0.00672 J	7.12	2.52	3.58
		B18-10043	2.26	2.78	3.04	0.0165 J	< 0.01	0.0518	< 1.00	0.0287	3.73	< 3.00	0.158	1.86	15.2	< 0.005	0.0681	0.0366	0.0885	2.59	0.978 J	0.0188	19.4	< 0.01	8.98	0.490	< 0.005	0.0310	< 0.005	< 0.005	10.3	3.46	2.30
		B18-10088	1.99	1.98	13.6	0.0123 J	< 0.01	0.0422	< 1.00	0.0418	1.21 J	< 3.00	0.125	1.65	11.5	0.0261	0.0557	< 0.0125	0.0576	3.07	< 0.500	< 0.0025	15.4	< 0.01	9.66	0.441	0.0150	0.0887	0.00879 J	0.0125	8.01	2.68	4.88

Notes:

mg/L = milligrams per liter
µg/L = micrograms per liter
ng/L = nanograms per liter
Data reported to the method detection limit
< = not detected at or above the stated level
J = estimated result, below the reporting limit

PAH = Polycyclic Aromatic Hydrocarbons
1) Nitrate and Orthophosphate as P samples were immediately frozen following collection to minimize microbial activity and extend the 2-day method holding time. These samples were kept frozen until processing and analysis.
Total PAHs were calculated by the sum of all tested PAHs. Non-detects were treated as 0 and estimated results were treated as the reported value for summing purposes.

Table F-1. 2018 RHMP Water Chemistry Results Summary Table

Harbor	Strata	Sample ID	Total Trace Metals (µg/L)																					
			Aluminium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron (Fe)	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Tin	Titanium	Vanadium	Zinc
Dana Point Harbor	Deep	B18-10068	127	0.0962	1.34	6.55	< 0.005	0.0415	0.337	0.0467	3.43	73.5	0.109	3.56	< 0.01	7.87	0.359	< 0.005	< 0.01	0.00905 J	< 0.005	17.6	2.14	8.29
	Freshwater-Influenced	B18-10066	57.8	0.119	1.38	5.24	0.0071 J	0.0817	0.246	0.0548	10.2	25.5	0.0840	6.04	< 0.01	8.71	0.608	< 0.005	< 0.01	0.00796 J	< 0.005	22.9	1.97	25.0
	Marina	B18-10067	68.5	0.102	1.33	5.44	< 0.005	0.0469	0.283	0.0294	8.87	39.1	0.1150	2.54	< 0.01	8.63	0.283	< 0.005	< 0.01	0.0109	0.00668 J	16.2	1.93	18.2
	Shallow	B18-10065	65.4	0.0952	1.41	5.30	0.0146	0.0432	0.356	0.0245	6.05	22.1	0.0859	2.26	< 0.01	8.62	0.282	< 0.005	< 0.01	0.00885 J	< 0.005	27.4	2.07	13.3
Oceanside Harbor	Deep	B18-10071	75.7	0.0985	1.41	4.57	< 0.005	0.0263	0.241	< 0.005	2.13	43.7	0.0432	3.41	< 0.01	9.04	0.222	0.00688 J	< 0.01	< 0.005	< 0.005	17.9	2.22	7.87
	Freshwater-Influenced	B18-10070	65.8	0.117	1.67	5.53	< 0.005	0.0296	0.220	0.0110	5.82	35.6	0.0521	4.08	< 0.01	8.56	0.272	0.0251	< 0.01	0.00777 J	0.0247	18.1	2.31	17.5
	Marina	B18-10069	123	0.0857	1.52	5.67	< 0.005	0.0332	0.284	0.3850	8.71	85.8	0.157	5.58	< 0.01	8.58	0.288	0.0156	< 0.01	0.00979 J	< 0.005	18.2	2.32	19.9
		B18-10072	41.1	0.112	1.55	8.38	< 0.005	0.0398	0.181	< 0.005	6.70	30.3	0.0237	13.2	< 0.01	9.38	0.212	0.0108 J	< 0.01	< 0.005	0.00631 J	13.5	2.10	32.5
Mission Bay	Deep	B18-10019	95.0	0.0885	1.33	4.70	< 0.005	0.0257	0.251	0.2370	1.40	71.1	0.1320	4.40	< 0.01	8.06	0.225	0.00541 J	< 0.01	0.00688 J	< 0.005	18.3	2.29	1.11
		B18-10020	43.7	0.0875	1.44	4.47	< 0.005	0.0326	0.201	< 0.005	0.791	27.7	0.1210	2.44	< 0.01	8.67	0.186	< 0.005	< 0.01	< 0.005	< 0.005	16.7	2.14	0.960
	Freshwater-Influenced	B18-10015	61.5	0.124	1.95	18.8	< 0.005	0.0330	0.284	0.1250	1.07	46.5	0.1340	20.1	< 0.01	8.87	0.303	0.0117 J	0.0111 J	< 0.005	< 0.005	13.2	2.73	2.20
	Marina	B18-10074	68.7	0.0981	1.40	5.34	< 0.005	0.0278	0.208	0.0119	1.15	54.6	0.123	2.96	< 0.01	8.85	0.231	0.0397	< 0.01	< 0.005	0.0325	15.1	2.30	1.32
		B18-10075	97.2	0.0956	1.50	5.19	0.0110	0.0266	0.260	0.0568	1.92	67.3	0.1550	4.06	< 0.01	8.26	0.223	0.0102 J	< 0.01	< 0.005	< 0.005	18.0	2.36	3.80
	Shallow	B18-10016	55.4	0.0881	1.58	4.83	< 0.005	0.0258	0.172	0.0563	0.873	43.2	0.1030	5.01	< 0.01	8.68	0.227	0.0162	< 0.01	< 0.005	< 0.005	15.4	2.54	0.568
		B18-10017	97.1	0.127	2.09	12.2	< 0.005	0.0440	0.134	0.1220	1.39	61.0	0.1830	23.1	< 0.01	8.66	0.338	0.0430	< 0.01	0.00544 J	0.0174	15.0	2.84	1.61
		B18-10073	95.9	0.0916	1.40	4.47	< 0.005	0.0220	0.251	0.0289	1.36	71.5	0.135	3.33	< 0.01	8.24	0.245	0.0148 J	< 0.01	< 0.005	< 0.005	18.5	2.46	1.40
		B18-10438 (overdraw)	31.7	0.109	1.43	8.16	< 0.005	0.0317	0.098	0.0488	1.38	45.3	0.0646	7.50	< 0.01	8.69	0.227	0.0163	< 0.01	< 0.005	< 0.005	13.4	2.00	1.57
San Diego Bay - North	Deep	B18-10022	158	0.108	1.34	7.59	0.00531 J	0.0301	0.206	0.0826	1.44	72.9	0.203	6.77	< 0.01	9.38	0.368	0.0296	< 0.01	0.00945 J	0.00825 J	27.1	2.54	4.89
		B18-10023	54.3	0.125	1.39	4.50	< 0.005	0.0293	0.269	< 0.005	1.79	33.0	< 0.0025	1.28	< 0.01	8.54	0.282	0.0228	0.0594	< 0.005	0.0118	31.2	2.30	3.03
		B18-10024	97.8	0.115	1.25	7.15	< 0.005	0.0602	0.101	0.0618	1.32	58.8	0.288	5.96	< 0.01	8.39	0.353	4.18	< 0.01	0.0071 J	0.00669 J	22.4	2.39	4.14
		B18-10030	62.6	0.114	1.31	4.76	< 0.005	0.0457	0.249	< 0.005	1.23	55.9	0.0228	3.09	< 0.01	8.48	0.335	0.0243	0.0185 J	< 0.005	< 0.005	20.3	2.44	6.82
		B18-10112	90.1	0.119	1.34	7.15	< 0.005	0.0237	0.090	0.0566	1.10	40.8	0.0916	5.53	< 0.01	9.13	0.327	0.0211	< 0.01	0.00634 J	0.00659 J	23.9	2.37	5.14
		B18-10113	83.8	0.114	1.33	6.73	< 0.005	0.0975	0.077	0.0633	1.19	40.3	0.319	6.38	< 0.01	9.14	0.369	0.0334	< 0.01	0.00683 J	0.00895 J	26.0	2.40	3.92
		B18-10116	216	0.115	1.27	8.10	< 0.005	0.0274	0.261	0.0971	1.96	128	0.285	8.27	< 0.01	8.84	0.432	0.0201	< 0.01	0.009 J	0.00692 J	22.0	2.63	6.22
		B18-10117	102	0.114	1.41	5.63	0.0128	0.0756	0.297	< 0.005	1.28	65.3	0.204	4.97	< 0.01	8.42	0.351	0.0139 J	0.0102 J	< 0.005	< 0.005	25.6	2.61	4.03
	Freshwater-Influenced	B18-10029	128	0.120	1.49	8.24	0.00601 J	0.0272	0.153	0.0810	1.91	56.9	0.174	7.70	< 0.01	9.49	0.397	0.0109 J	< 0.01	0.00518 J	< 0.005	47.9	2.64	5.80
		B18-10076	127	0.147	1.41	8.16	< 0.005	0.0370	0.207	0.0791	2.07	71.9	0.254	7.34	< 0.01	8.78	0.417	0.0164	< 0.01	0.0077 J	0.0125	29.7	2.55	6.73
	Industrial/Port	B18-10114	189	0.113	1.39	7.08	< 0.005	0.0295	0.212	0.0852	1.87	78.2	0.220	8.47	< 0.01	8.82	0.402	0.0205	< 0.01	0.00776 J	0.00796 J	36.4	2.60	5.68
		B18-10115	143	0.120	1.43	8.17	< 0.005	0.0299	0.180	0.0842	2.24	84.6	0.207	8.62	< 0.01	9.15	0.416	0.0304	< 0.01	0.00799 J	0.0188	31.5	2.56	7.39
	Marina	B18-10078	148	0.115	1.49	6.80	0.00535 J	0.0424	0.403	0.0229	3.44	109	0.195	5.17	< 0.01	8.09	0.346	0.0155	< 0.01	< 0.005	< 0.005	22.1	2.70	15.1
		B18-10079	92.8	0.115	1.51	6.74	0.00527 J	0.0410	0.298	0.0198	2.21	87.9	0.134	5.09	< 0.01	8.31	0.373	0.0198	< 0.01	< 0.005	< 0.005	17.3	2.52	6.57
		B18-10080	31.1	0.118	1.53	5.80	0.00685 J	0.0373	0.188	< 0.005	9.73	17.4	< 0.0025	3.14	< 0.01	8.87	0.286	< 0.005	< 0.01	< 0.005	< 0.005	21.0	2.45	27.3
		B18-10081	26.4	0.118	1.53	7.03	0.00965 J	0.0680	0.175	< 0.005	10.57	16.0	0.117	3.16	< 0.01	8.68	0.362	0.0270	0.0105 J	< 0.005	0.0120	15.8	2.34	24.0
		B18-10082	18.2	0.122	1.44	5.22	0.0103	0.0387	0.299	< 0.005	9.74	12.9	< 0.0025	2.83	< 0.01	8.80	0.284	0.00987 J	< 0.01	< 0.005	< 0.005	20.7	2.36	27.9
		B18-10083	32.6	0.123	1.47	5.69	< 0.005	0.0333	0.190	< 0.005	6.6	17.1	< 0.0025	2.80	< 0.01	8.80	0.278	0.00831 J	< 0.01	< 0.005	< 0.005	20.4	2.48	18.1
		B18-10084	67.5	0.116	1.77	6.54	0.0246	0.0419	0.410	0.0496	3.86	35.9	< 0.0025	3.65	< 0.01	8.54	0.305	0.012 J	< 0.01	< 0.005	< 0.005	111	3.76	11.2
	Shallow	B18-10077	219	0.111	1.33	9.02	< 0.005	0.0638	0.378	0.105	1.92	111	0.430	7.84	< 0.01	8.99	0.389	0.0212	< 0.01	0.00848 J	0.0136	27.8	2.65	6.89
San Diego Bay - Central	Deep	B18-10133	115	0.142	1.46	8.44	< 0.005	0.116	0.297	0.0285	3.81	77.4	0.380	10.4	< 0.01	9.25	0.624	0.0198	0.0162 J	< 0.005	0.0269	23.3	2.49	7.32
		B18-10141	184	0.0918	1.42	8.57	< 0.005	0.0404	0.311	0.0987	3.18	89.3	0.158	11.1	< 0.01	8.25	0.472	0.012 J	< 0.01	0.009 J	0.0117	18.5	2.62	5.34
		B18-10144	265	0.133	1.51	11.0	< 0.005	0.0473	0.364	0.146	3.81	187	0.230	14.5	< 0.01	9.04	0.814	0.0176	0.0184 J	0.0115	0.0173	17.7	3.16	5.72
	Freshwater-Influenced	B18-10031	161	0.125	1.39	9.38	0.0200	0.0542	0.312	0.0941	3.95	68.2	0.300	9.94	< 0.01	7.38	0.494	0.0131 J	< 0.01	0.00786 J	0.0196	25.4	2.67	7.09
		B18-10178	91.8	0.124	1.48	8.78	< 0.005	0.0515	0.230	0.0960	3.34	43.7	0.259	11.1	< 0.01	7.78	0.573	0.0136 J	< 0.01	0.00632 J	0.0066 J	33.8	2.76	7.39
	Industrial/Port	B18-10119	138	0.109	1.49	7.65	0.0174	0.0533	0.339	0.0897	3.48	70.9	0.299	10.0	< 0.01	7.46	0.485	0.0118 J	< 0.01	< 0.005	< 0.005	30.8	2.77	9.21
		B18-10121	122	0.104	1.51	8.62	0.00773 J	0.0500	0.285	0.0794	3.57	52.7	0.219	9.44	< 0.01	7.58	0.551	< 0.005	< 0.01	0.00594 J	< 0.005	34.5	2.75	13.1
		B18-10123	88.9	0.127	1.33	7.16	< 0.005	0.0567	0.222	0.0759	3.89	36.0	0.173	9.06	< 0.01	8.03	0.572	0.0180	< 0.01	0.00591 J	< 0.005	20.9	2.54	9.79
		B18-10124	85.6	0.112	1.67	9.86	< 0.005	0.0534	0.269	0.0362	3.83	42.9	0.157	9.87	< 0.01	9.03	0.530	0.0129 J	0.0353	< 0.005	0.00906 J	25.0	2.54	5.91
		B18-10126	93.1	0.106	1.65	8.90	0.00632 J	0.0532	0.293	0.0314	4.05	50.2	0.180	9.82	< 0.01	9.25	0.534	0.0117 J	0.0226	< 0.005	< 0.005	22.0	2.52	5.63
		B18-10127	98.9	0.102	1.43	8.26	< 0.005	0.0551	0.256	0.0210	3.39	50.9	0.167	10.1	< 0.01	8.94	0.513	0.0117 J	0.0172 J	< 0.005	0.00638 J	21.6	2.50	5.28
		B18-10132	88.6	0.0991	1.54	10.00	< 0.005	0.0549	0.250	0.0185	3.21	45.1	0.147	10.2	< 0.01	8.96	0.489	0.0200	0.0194 J	< 0.005	0.00644 J	24.5	2.55	4.55
		B18-10136	93.1	0.103	1.47	10.4	< 0.005	0.0727	0.261	0.0287	3.47	48.2	0.230	9.26	< 0.01	8.91	0.514	0.0171	< 0.01	< 0.005	0.00598 J	22.9	2.47	5.16
		B18-10137	135	0.102	1.42	9.16	< 0.005	0.0571	0.284	0.0317	3.25	73.7	0.188	10.9	< 0.01	8.82	0.482	0.0191	0.0108 J	< 0.005	< 0.005	24.1	2.52	5.18
		B18-10139	137	0.103	1.45	9.70	< 0.005	0.0591	0.302	0.0337	4.74	79.5	0.187	11.0	< 0.01	9.16	0.543	0.0182	0.015 J	< 0.005	< 0.005	24.5	2.54	4.85
		B18-10140	145	0.106	1.41	9.12	< 0.005	0.111	0.318	0.0328	3.73	83.2	0.372	11.1	< 0.01	8.56	0.471	0.0183	0.0119 J	< 0.005	0.0276	25.6	2.52	5.33
		B18-10142	181	0.0937	1.35	10.9	< 0.005	0.0384	0.289	0.112	3.58	81.0	0.150	12.7	< 0.01	8.47	0.505	0.00946 J	0.0142 J	0.0092 J	0.00984 J	17.1	2.74	5.32
		B18-10143	208	0.0978	1.46	9.32	< 0.005	0.0519	0.306	0.126	3.69	134	0.194	12.7	< 0.01	8.72	0.541	0.0119 J	< 0.01	0.0075 J	0.0135	15.3	2.78	5.97
	Shallow	B18-10032	297	0.105	1.42	8.58	0.00791 J	0.0579	0.548	0.114	2.99	131	0.418	9.16	< 0.01	7.82	0.510	0.0171	< 0.01	0.00758 J	0.0106	35.6	3.00	4.78
		B18-10034	375	0.0958	1.41	8.38	< 0.005	0.0519	0.672	0.145	3.64	226	0.441	12.9	< 0.01	8.43	0.542	0.0143 J	0.0112 J	0.00994 J	0.0268	23.4	3.24	6.26
		B18-10035	392	0.100	1.64	7.92	< 0.005	0.0455	0.629	0.150	3.44	208	0.448	12.2	< 0.01	8.40	0.571	0.0169	0.0103 J	0.0119	0.0190	23.8	3.15	6.44
		B18-10036	414	0.0850	1.48	10.5	0.00618 J	0.0460	0.714	0.163	3.42	260	0.490	13.4	< 0.01	7.63	0.559	0.00744 J	0.0248	0.0128	0.0185	24.3	3.39	7.53
San Diego Bay - South	Freshwater-Influenced	B18-10037	116	0.112	1.55	13.3	< 0.005	0.0516	0.14	0.100	3.55	71.9	0.148	15.5	< 0.01	8.93	0.510	0.00702 J	0.0628	0.00705 J	0.00897 J	13.0	2.93	7.44
		B18-10040	93.5	0.129	1.51	11.1	0.0254	0.0386	0.208	0.0891	7.25	42.7	0.148	13.7	< 0.01	8.14	0.526	< 0.005	0.0376	0.00543 J	< 0.005	14.8	2.79	3.85
		B18-10044	145	0.126	1.67	16.7	< 0.005	0.0670	0.257	0.114	5.63	128	0.209	20.7	< 0.01	8.18	0.552	0.0172	0.0167 J	< 0.005	< 0.005	15.4	4.06	2.98
		B18-10179	105	0.102	1.57	26.8	0.0111	0.0485	0.155	0.0993	3.15	53.6	0.0810	22.8	< 0.01	9.27	0.455	0.00756 J	0.1010	0.0123	< 0.005	12.4	3.16	7.45
		B18-10180	114	0.102	1.48	16.4	0.0341	0.0470	0.170	0.0919	2.75	59.3	0.0963	17.7	< 0.01	8.89	0.434	0.00762 J	0.0786	0.0113	< 0.005	11.7	2.74	5.64
		B18-10181	93.3	0.109	1.57	16.9	0.00953 J	0.0551	0.114	0.0976	2.79	52.4	0.0873	19.9	< 0.01	9.35	0.441	0.0112 J	0.0860	0.00971 J	0.00628 J	10.9	2.76	5.63
		B18-10200	186	0.120	2.23	15.8	< 0.005	0.0467	0.242	0.0777	5.10	96.2	0.208	25.9	< 0.01	8.03	0.542	0.00884 J	0.0207	< 0.005	0.0102	16.9	4.66	5.16
	Marina	B18-10085	288	0.0855	1.68	11.5	0.0171	0.0554	0.412	0.156	8.84	152	0.313	23.0	< 0.01	8.36	0.509	0.0111 J	0.0819	0.0111	0.0238	20.9	3.32	12.5
		B18-10086	169	0.137	1.53	10.8	0.0252	0.0517	0.232	0.135	6.55	95.6	0.0793	25.7	< 0.01	9.12	0.489	0.0128 J	0.0911	0.0121	0.0113	14.1	3.26	13.4
		B18-10087	81.6	0.110	1.53	10.7	< 0.005	0.0641	0.094	0.0917	5.83	40.0	0.0135	14.8	< 0.01	9.28	0.418	0.00878 J	0.0919	0.00887 J	0.00579 J	10.8	2.90	11.9
	Shallow	B18-10038	207	0.134	1.44	10.2	0.0196	0.0526	0.396	0.127	3.26	145	0.238	11.6	< 0.01	8.92	0.557	< 0.005	0.0962	0.0125	0.0344	16.7	2.74	5.04
		B18-10039	220	0.0929	1.52	9.79	< 0.005	0.0420	0.418	0.138	3.00	140	0.219	15.3	< 0.01	8.48	0.514	0.0136 J	0.0173 J	0.0089 J	0.0159	15.6	2.96	6.14
		B18-10041	67.9	0.104	1.58	12.8	0.0615	0.0404	0.123	0.0639	2.56	37.3	0.0215	13.0	< 0.01	9.07	0.383	< 0.005	0.0840	0.0139	0.00568 J	12.2	2.60	3.90
		B18-10042	111	0.107	1.45	12.3	0.00935 J	0.0483	0.155	0.0902	2.97	59.7	0.0538	15.1	< 0.01	9.11	0.441	0.0119 J	0.0762	0.0130	0.00746 J	11.7	2.69	4.05
		B18-10043	90.9	0.128	1.61	15.0	< 0.005	0.0668	0.152	0.0733	2.81	59.9	0.115	21.4	< 0.01	8.43	0.519	0.0147 J	0.0182 J	< 0.005	< 0.005	18.7	3.77	2.92
		B18-10088	103	0.100	1.47	11.7	< 0.005	0.0504	0.131	0.0803	3.47	56.6	0.0416	17.0	< 0.01	9.13	0.444	0.0160	0.0734	0.0102	0.00688 J	11.5	2.72	5.64

Notes:
mg/L = milligrams per liter
µg/L = micrograms per liter
ng/L = nanograms per liter
Data reported to the method detection limit
< = not detected at or above the stated level
J = estimated result, below the reporting limit

Table F-2. 2018 RHMP Water Column PAHs Summary Table

Harbor	Strata	Sample ID	Individual PAHs (ng/L)																									
			1-Methylnaphthalene	1-Methylphenanthrene	2-Methylnaphthalene	2,3,5-Trimethylnaphthalene	2,6-Dimethylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[e]pyrene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Biphenyl	Chrysene	Dibenz[a,h]anthracene	Dibenzothiophene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	Total PAHs (ng/L)
Dana Point Harbor	Deep	B18-10068	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.07 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.07 J
	Freshwater-Influenced	B18-10066	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Marina	B18-10067	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Shallow	B18-10065	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Oceanside Harbor	Deep	B18-10071	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.39 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.01 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.17 J	3.57
	Freshwater-Influenced	B18-10070	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Marina	B18-10069	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
		B18-10072	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Mission Bay	Deep	B18-10019	1.02 J	< 1.00	1.90 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.13 J	< 1.00	< 1.00	4.05
		B18-10020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Freshwater-Influenced	B18-10015	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Marina	B18-10074	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
		B18-10075	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Shallow	B18-10016	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
		B18-10017	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
		B18-10073	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
		B18-10438 (overdraw)	< 1.00	< 1.00	1.10 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.10 J
San Diego Bay - North	Deep	B18-10022	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.37 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.06 J	< 1.00	1.05 J	< 1.00	< 1.00	< 1.00	2.28 J	8.76
		B18-10023	< 1.00	< 1.00	1.08 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.19 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.27
		B18-10024	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.08 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.33 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.50 J	5.91
		B18-10030	< 1.00	< 1.00	< 1.00	< 1.00	2.03 J	1.44 J	< 1.00	< 1.00	< 1.00	< 1.00	1.07 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	5.14	1.19 J	< 1.00	< 1.00	< 1.00	2.15 J	2.66 J	15.7
		B18-10112	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.69 J	< 1.00	1.49 J	< 1.00	< 1.00	1.25 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	8.85	2.20 J	< 1.00	< 1.00	< 1.00	2.38 J	4.33 J	25.2
		B18-10113	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.43 J	< 1.00	1.26 J	< 1.00	< 1.00	1.08 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	8.44	2.13 J	1.10 J	< 1.00	< 1.00	2.20 J	4.05 J	24.7
		B18-10116	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.82 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.12 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.96 J	6.90
		B18-10117	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.42 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.73 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.56 J	5.71
	Freshwater-Influenced	B18-10029	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.30 J	< 1.00	< 1.00	< 1.00	< 1.00	1.24 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.07 J	1.14 J	< 1.00	< 1.00	< 1.00	< 1.00	1.02 J	10.7
		B18-10076	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.59 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.74 J	< 1.00	1.11 J	< 1.00	< 1.00	< 1.00	2.55 J	9.99
	Industrial/Port	B18-10114	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.23 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.63 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.93 J	6.79
		B18-10115	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.84 J	< 1.00	< 1.00	< 1.00	< 1.00	1.64 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	5.20	1.47 J	1.43 J	< 1.00	< 1.00	1.78 J	3.13 J	16.5
	Marina	B18-10078	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.39 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.42 J	< 1.00	1.56 J	< 1.00	< 1.00	< 1.00	2.80 J	12.2
		B18-10079	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.18 J	< 1.00	< 1.00	1.18 J	< 1.00	1.86 J	< 1.00	< 1.00	< 1.00	< 1.00	1.43 J	< 1.00	< 1.00	5.52	1.01 J	1.62 J	< 1.00	< 1.00	1.49 J	3.86 J	19.2
		B18-10080	< 1.00	< 1.00	< 1.00	< 1.00	1.46 J	< 1.00	1.34 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.69 J	< 1.00	< 1.00	< 1.00	< 1.00	1.38 J	< 1.00	5.87
		B18-10081	< 1.00	< 1.00	< 1.00	< 1.00	1.07 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.75 J	< 1.00	< 1.00	< 1.00	< 1.00	1.16 J	< 1.00	3.98
		B18-10082	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.04 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.69 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.73
		B18-10083	< 1.00	< 1.00	1.01 J	< 1.00	1.28 J	< 1.00	2.83 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.37 J	< 1.00	< 1.00	< 1.00	2.11 J	1.31 J	< 1.00	< 1.00	< 1.00	2.41 J	1.50 J	13.8
		B18-10084	< 1.00	< 1.00	< 1.00	< 1.00	1.04 J	< 1.00	1.52 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.73 J	1.22 J	< 1.00	< 1.00	< 1.00	1.84 J	1.83 J	10.2
	Shallow	B18-10077	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.26 J	< 1.00	< 1.00	< 1.00	1.84 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.13 J	< 1.00	1.92 J	< 1.00	< 1.00	< 1.00	2.69 J	11.8
San Diego Bay - Central	Deep	B18-10133	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.89 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.01 J	< 1.00	< 1.00	< 1.00	< 1.00	2.51 J	1.71 J	10.1
		B18-10141	< 1.00	< 1.00	1.08 J	< 1.00	< 1.00	2.35 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.80 J	1.60 J	< 1.00	< 1.00	< 1.00	2.34 J	1.60 J	11.8
		B18-10144	< 1.00	< 1.00	1.27 J	< 1.00	< 1.00	2.83 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.63 J	2.17 J	< 1.00	1.28 J	< 1.00	2.05 J	1.40 J	13.6
	Freshwater-Influenced	B18-10031	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.30 J	< 1.00	< 1.00	< 1.00	< 1.00	2.30 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.84 J	1.10 J	< 1.00	< 1.00	< 1.00	1.25 J	2.79 J	12.6
		B18-10178	< 1.00	< 1.00	1.31 J	< 1.00	1.07 J	3.86 J	< 1.00	1.35 J	< 1.00	< 1.00	1.15 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	9.46	2.43 J	1.45 J	< 1.00	< 1.00	3.27 J	6.72	32.1
	Industrial/Port	B18-10119	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.50 J	< 1.00	1.11 J	< 1.00	< 1.00	2.49 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	6.03	1.65 J	2.86 J	< 1.00	< 1.00	1.72 J	3.71 J	22.1
		B18-10121	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.31 J	< 1.00	< 1.00	< 1.00	< 1.00	1.29 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.75 J	1.03 J	1.04 J	< 1.00	< 1.00	< 1.00	2.37 J	10.8
		B18-10123	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.25 J	< 1.00	< 1.00	< 1.00	< 1.00	1.42 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.53 J	1.08 J	1.26 J	< 1.00	< 1.00	1.11 J	2.41 J	12.1
		B18-10124	< 1.00	< 1.00	1.26 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.43 J	1.56 J	< 1.00	< 1.00	< 1.00	2.22 J	2.33 J	9.80
		B18-10126	< 1.00	< 1.00	1.32 J	< 1.00	1.57 J	2.57 J	1.44 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.12 J	< 1.00	< 1.00	< 1.00	3.02 J	1.67 J	< 1.00	< 1.00	< 1.00	2.58 J	2.50 J	17.8
		B18-10127	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.44 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.01 J	1.41 J	< 1.00	< 1.00	< 1.00	2.46 J	1.97 J	11.3
		B18-10132	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.35 J	1.06 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.54 J	1.52 J	< 1.00	< 1.00	< 1.00	2.27 J	1.67 J	11.4
		B18-10136	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.45 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.27 J	1.55 J	< 1.00	< 1.00	< 1.00	2.74 J	2.03 J	12.0
		B18-10137	< 1.00	< 1.00	1.18 J	< 1.00	< 1.00	2.63 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.66 J	1.75 J	< 1.00	< 1.00	< 1.00	2.51 J	1.73 J	12.5
		B18-10139	< 1.00	< 1.00	1.51 J	< 1.00	1.07 J	3.03 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.96 J	1.74 J	< 1.00	< 1.00	< 1.00	2.34 J	1.88 J	14.5
		B18-10140	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.16 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.94 J	1.51 J	< 1.00	< 1.00	< 1.00	2.85 J	1.84 J	12.3
		B18-10142	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.86 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	5.37	2.64 J	< 1.00	< 1.00	< 1.00	3.90 J	2.70 J	19.5
		B18-10143	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.28 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.70 J	< 1.00	< 1.00	< 1.00	< 1.00	2.09 J	1.53 J	8.60
	Shallow	B18-10032	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.73 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.17 J	< 1.00	1.15 J	< 1.00	< 1.00	< 1.00	1.64 J	6.69
		B18-10034	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.05 J	1.31 J	< 1.00	< 1.00	< 1.00	1.68 J	1.37 J	6.41
		B18-10035	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.35 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.76 J	1.23 J	< 1.00	< 1.00	< 1.00	1.49 J	1.15 J	6.98
		B18-10036	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.64 J	1.18 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.69 J	1.41 J	< 1.00	< 1.00	< 1.00	2.09 J	1.29 J	9.30
San Diego Bay - South	Freshwater-Influenced	B18-10037	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.00 J	< 1.00	< 1.00	< 1.00	< 1.00	1.05 J	1.04 J	4.09
		B18-10040	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.88 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.13 J	1.02 J	< 1.00	< 1.00	< 1.00	1.57 J	< 1.00	6.60
		B18-10044	< 1.00	< 1.00	1.06 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.20 J	< 1.00	< 1.00	< 1.00	2.26
		B18-10179	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.53 J	< 1.00	< 1.00	< 1.00	< 1.00	1.10 J	1.90 J	5.53
		B18-10180	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.20 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.36 J	3.56
		B18-10181	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.99 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.18 J	3.17
		B18-10200	< 1.00	< 1.00	1.34 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.05 J	< 1.00	< 1.00	1.41 J	< 1.00	< 1.00	< 1.00	3.80
	Marina	B18-10085	< 1.00	< 1.00	1.56 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.20 J	1.73 J	< 1.00	1.15 J	< 1.00	< 1.00	< 1.00	5.64
		B18-10086	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.10 J	< 1.00	< 1.00	1.01 J	< 1.00	1.08 J	1.05 J	4.24
		B18-10087	< 1.00	< 1.00	1.17 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.09 J	1.98 J	< 1.00	1.51 J	< 1.00	< 1.00	1.53 J	7.28
	Shallow	B18-10038	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.32 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.71 J	< 1.00	< 1.00	< 1.00	< 1.00	1.65 J	1.24 J	5.92
		B18-10039	< 1.00	< 1.00	1.80 J	< 1.00	< 1.00	1.04 J	1.84 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.04 J	< 1.00	< 1.00	< 1.00	1.79 J	1.16 J	< 1.00	< 1.00	< 1.00	2.71 J	1.14 J	12.5
		B18-10041	< 1.00	< 1.00	1.26 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.26 J
		B18-10042	< 1.00	< 1.00	1.43 J	< 1.00	< 1.00	< 1.00	1.01 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.16 J	2.65 J	< 1.00	< 1.00	< 1.00	1.63 J	1.06 J	8.94
		B18-10043	< 1.00	< 1.00	1.41 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.32 J	< 1.00	< 1.00	< 1.00	3.73
		B18-10088	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.21 J	1.21 J

Notes:
ng/l = nanograms per liter
Data reported to the method detection limit
< = not detected at or above the stated level
J = estimated result, below the reporting limit
PAH = Polycyclic Aromatic Hydrocarbons
Total PAHs were calculated by the sum of all tested PAHs. Non-detects were treated as 0 and estimated results were treated as the reported value for summing purposes.

Sediment

Table F-3. 2018 RHMP Sediment Chemistry Results Summary Table

Harbor	Strata	Station ID	General Chemistry					AVS-SEM Values and Calculations					CSI Score	CSI Category	Mean ER-M Quotient	Metals (mg/kg)													
			Ammonia-N (mg/kg)	Percent Solids (%)	Total Nitrogen (%)	Total Phosphorus (mg/kg)	Total Organic Carbon (%)	Acid Volatile Sulfides (mg/kg)	Acid Volatile Sulfides (µmol/g)	Sum of SEM (µmol/g)	SEM:AVS Ratio	SEM:AVS Ratio norm. to fOC				Antimony (Sb)	Arsenic (As)	Barium (Ba)	Beryllium (Be)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
Dana Point Harbor	Shallow	B18-10065	10.4	65.3	0.05	626	0.81	50.7	1.58	1.89	1.20	38.6	1.39	Minimal Exposure	0.13	0.168	6.16	117	0.327	0.159	54.6	142	13900	9.28	0.021	12.9	0.513	0.095	112
	Deep	B18-10068	12.8	57.7	0.09	815	1.07	36.9	1.15	1.75	1.52	55.8	1.38	Minimal Exposure	0.11	0.259	7.86	119	0.535	0.520	38.6	93.6	20500	10.2	0.027	15.1	0.710	0.144	162
	Freshwater-Influenced	B18-10066	13.5	43.0	0.16	871	2.18	110	3.43	5.18	1.51	80.1	2.00	Low Exposure	0.32	0.416	11.2	181	1.04	0.788	70.6	461	32700	22.7	0.087	25.6	0.973	0.319	386
	Marina	B18-10067	16.3	37.0	0.20	958	2.26	234	7.30	8.54	1.17	54.8	2.02	Low Exposure	0.42	0.397	15.9	173	1.07	0.452	85.3	664	38100	30	0.084	28.2	0.996	0.339	616
Oceanside Harbor	Deep	B18-10071	25.6	49.6	0.13	645	1.55	128	3.99	0.454	0.114	-228	1.38	Minimal Exposure	0.11	0.148	8.45	149	0.484	0.380	53.7	55.9	33200	8.80	0.025	21.6	0.551	0.096	127
	Freshwater-Influenced	B18-10070	4.13	44.9	0.14	727	1.75	42.3	1.32	1.65	1.25	19.2	1.71	Low Exposure	0.17	0.209	10.1	165	0.765	0.323	68.6	156	41500	14.2	0.073	26.8	0.697	0.145	202
	Marina	B18-10069	3.10	44.1	0.12	724	1.42	20.6	0.642	4.90	7.63	300	2.20	Low Exposure	2.61	0.224	11.6	185	0.851	0.225	72.7	489	47600	24.4	0.373	26.3	0.612	0.203	331
		B18-10072	14.3	58.2	0.08	589	1.13	13.0	0.405	3.70	9.13	292	1.76	Low Exposure	0.21	0.185	8.22	137	0.567	0.213	51.5	282	33400	16.5	0.162	18.6	0.438	0.158	260
Mission Bay	Deep	B18-10019	8.88	77.9	0.01 J	208	0.19	0.906	0.028	0.084	2.97	29.3	1.00	Minimal Exposure	0.01	0.066	1.68	15.0	0.062	0.043	6.09	2.08	3940	1.75	0.005	1.47	0.116	0.035	12.1
		B18-10020	19.9	74.4	0.01 J	252	0.21	1.42	0.044	0.134	3.03	42.8	1.00	Minimal Exposure	0.02	0.078	1.87	26.5	0.084	0.093	8.99	4.08	6100	2.41	0.010	2.32	0.118	0.039	21.4
	Freshwater-Influenced	B18-10015	13.6	59.0	0.10	599	1.62	39.1	1.22	0.811	0.665	-25.2	1.58	Minimal Exposure	0.14	0.291	12.1	94.7	0.856	0.272	44.6	35.7	34100	31.4	0.054	15.5	0.611	0.153	135
	Marina	B18-10074	23.5	43.3	0.17	563	1.97	291	9.08	0.616	0.068	-429	1.17	Minimal Exposure	0.10	0.187	7.35	92.1	0.464	0.234	43.2	71.2	27300	15.5	0.062	12.7	0.607	0.189	111
		B18-10075	4.13	40.5	0.22	701	2.43	112	3.49	1.61	0.460	-77.6	1.69	Low Exposure	0.25	0.278	10.4	128	0.623	0.245	54.9	108	34500	26.9	0.143	16.5	0.799	0.227	170
	Shallow	B18-10016	43.2	45.4	0.15	553	1.96	106	3.31	0.534	0.161	-141	1.00	Minimal Exposure	0.08	0.189	6.92	61.1	0.472	0.276	33.5	25.3	22700	15.3	0.040	10.6	0.599	0.179	85.2
		B18-10017	9.75	38.4	0.17	798	2.04	118	3.68	1.03	0.279	-130	1.31	Minimal Exposure	0.15	0.352	16.4	117	1.38	0.274	59.7	50.6	46700	43.7	0.071	21.1	0.839	0.236	166
		B18-10073	51.6	42.2	0.18	649	2.03	222	6.92	0.504	0.073	-316	1.00	Minimal Exposure	0.09	0.188	8.00	102	0.585	0.272	47.3	38.0	30300	15.9	0.061	14.1	0.713	0.226	107
		B18-10438 (overdraw)	11.9	39.5	0.19	779	2.35	19.9	0.621	1.41	2.27	33.5	1.33	Minimal Exposure	0.14	0.295	14.2	184	1.08	0.295	70.8	80.2	49600	24.6	0.062	22.1	0.855	0.245	174
North San Diego Bay	Deep	B18-10022	9.85	70.5	0.01 J	292	0.25	7.85	0.245	0.985	4.02	296	1.05	Minimal Exposure	0.07	0.107	4.00	67.7	0.217	0.165	28.6	33.2	15800	12.5	0.154	6.27	0.173	0.229	85.6
		B18-10023	9.24	71.2	0.02	272	0.32	23.9	0.745	0.439	0.589	-95.8	1.00	Minimal Exposure	0.04	0.152	2.95	33.1	0.133	0.071	16.6	19.4	10900	7.82	0.0627	4.19	0.143	0.112	46.9
		B18-10024	15.5	56.9	0.07	481	0.83	13.3	0.415	1.83	4.41	170	1.43	Minimal Exposure	0.31	0.218	6.97	83.4	0.454	0.169	42.0	77.9	24500	24.3	0.289	11.5	0.340	0.438	134
		B18-10030	16.0	79.7	0.01 J	187	0.17	2.04	0.064	0.068	1.07	2.69	1.00	Minimal Exposure	0.10	0.088	2.46	8.67	0.042 J	0.025	5.36	3.17	4060	2.65	0.009	1.20	0.097	0.041	10.8
		B18-10112	9.41	64.5	0.06	404	0.79	6.65	0.207	1.75	8.45	195	1.74	Low Exposure	0.15	0.277	6.67	65.1	0.402	0.352	36.1	66.1	20700	26.5	0.330	12.9	0.301	0.483	117
		B18-10113	22.0	51.7	0.10	618	1.15	50.0	1.56	2.45	1.57	77.9	1.86	Low Exposure	0.22	0.284	9.52	91.0	0.525	0.248	53.0	109	29500	35.7	0.369	14.9	0.507	0.602	175
		B18-10116	3.65	79.1	< 0.01	176	0.12	0.965	0.030	0.352	11.7	269	1.00	Minimal Exposure	0.03	0.132	4.16	9.67	0.093	0.030	8.67	10.2	8500	6.82	0.024	1.94	0.097	0.094	33.9
		B18-20116 (B18-10116-Rep)	6.28	75.7	< 0.01	234	0.14	1.69	0.053	0.504	9.55	322	1.00	Minimal Exposure	0.04	0.160	5.00	16.7	0.137	0.0352	9.66	14.6	8790	8.40	0.043	2.58	0.108	0.081	45.8
		B18-10117	32.1	47.7	0.22	847	1.89	266	8.30	1.24	0.149	-373	1.41	Minimal Exposure	0.14	0.263	9.45	111	0.657	0.512	48.0	79.3	31100	20.4	0.174	16.6	0.695	0.341	159
	Freshwater-Influenced	B18-10029	11.7	52.7	0.13	588	2.50	265	8.26	2.70	0.327	-223	2.73	Moderate Exposure	0.41	0.618	7.74	89.5	0.514	0.479	46.8	111	26300	54.3	0.333	15.2	0.482	0.484	271
		B18-10076	12.0	61.2	0.07	602	1.24	7.95	0.248	2.27	9.15	163	2.25	Low Exposure	0.37	0.239	7.75	74.6	0.410	0.377	56.7	87.7	23700	46.5	0.358	14.7	0.343	0.636	173
	Industrial/Port	B18-10114	14.3	50.9	0.13	567	1.75	46.5	1.45	3.19	2.20	99.2	2.48	Moderate Exposure	0.27	0.391	8.84	101	0.624	0.243	59.9	133	31500	48.8	0.472	15.6	0.460	0.649	218
		B18-10115	22.1	55.2	0.09	584	1.01	11.8	0.368	2.52	6.85	213	1.93	Low Exposure	0.21	0.290	8.61	88.4	0.544	0.216	50.9	122	28700	37.7	0.399	13.9	0.403	0.643	183
	Marina	B18-10078	12.7	55.2	0.07	570	0.92	12.2	0.380	2.60	6.83	241	2.11	Low Exposure	0.36	1.64	8.47	75.2	0.503	0.170	47.2	158	24700	34.1	1.07	11.8	0.386	0.479	170
		B18-10079	9.84	64.8	0.06	511	0.71	5.74	0.179	1.67	9.33	210	1.65	Low Exposure	0.17	0.241	7.18	63.1	0.333	0.147	34.9	92.8	20100	22.7	0.516	9.01	0.278	0.352	119
		B18-10080	7.85	47.9	0.12	784	1.32	2.41	0.075	5.10	67.9	381	2.13	Low Exposure	0.45	0.245	14.6	97.4	0.807	0.258	66.0	242	40600	51.7	1.84	18.0	0.507	0.420	268
		B18-10081	8.29	53.6	0.09	596	1.16	5.04	0.157	4.08	26.0	338	2.52	Moderate Exposure	0.37	0.335	9.91	90.4	0.651	0.150	49.8	219	29500	41.3	1.43	13.0	0.397	0.324	203
		B18-10082	9.88	54.0	0.09	600	0.98	3.37	0.105	3.31	31.5	327	1.83	Low Exposure	0.24	0.215	10.3	81.5	0.568	0.127	47.8	164	28700	32.2	0.887	12.2	0.355	0.270	178
		B18-10083	17.4	54.5	0.12	569	1.22	14.8	0.462	3.00	6.51	208	1.86	Low Exposure	0.21	0.208	7.81	72.4	0.529	0.157	44.8	173	25600	27.0	0.616	12.2	0.415	0.337	169
		B18-10084	10.4	48.2	0.14	719	1.43	3.19	0.099	3.35	33.6	227	1.77	Low Exposure	0.22	0.240	10.1	94.2	0.547	0.184	53.6	149	31300	29.6	0.641	15.2	0.478	0.478	178
	Shallow	B18-10077	8.74	72.1	0.02	324	0.33	15.5	0.483	1.01	2.09	159	1.05	Minimal Exposure	0.08	0.103	4.21	59.0	0.237	0.157	29.5	37.3	15300	15.3	0.169	6.17	0.178	0.327	88.7
Central San Diego Bay	Deep	B18-10133	2.17	67.3	0.02	422	0.33	2.82	0.088	0.889	10.1	243	1.00	Minimal Exposure	0.10	0.081	11.6	227	0.791	0.076	38.7	49.1	39500	15.2	0.080	15.6	0.243	0.119	112
		B18-10141	3.29	71.3	0.03	242	0.48	11.8	0.368	0.975	2.65	126	1.36	Minimal Exposure	0.10	0.140	5.02	60.4	0.340	0.159	27.9	53.5	18200	14.0	0.150	7.78	0.211	0.354	81.6
		B18-10144	5.03	71.6	0.04	274	0.46	26.4	0.823	0.785	0.954	-8.29	1.17	Minimal Exposure	0.46	0.129	4.32	47.0	0.319	0.074	22.5	54.0	17000	10.2	0.083	7.06	0.169	0.216	76.9
	Freshwater-Influenced	B18-10031	8.90	58.1	0.09	438	1.60	122	3.80	2.40	0.630	-87.9	2.41	Moderate Exposure	0.28	0.415	7.22	77.0	0.554	0.302	44.6	120	27200	41.8	0.268	13.5	0.424	0.472	198
		B18-10178	15.4	51.2	0.16	446	3.50	1060	33.1	2.99	0.090	-859	2.92	Moderate Exposure	0.64	0.867	8.32	94.5	0.575	0.763	41.3	108	29900	54.6	0.137	14.7	0.620	0.401	294
	Industrial/Port	B18-10119	8.70	58.3	0.08	450	1.12	180	5.61	1.66	0.295	-353	1.93	Low Exposure	0.18	0.258	6.92	85.7	0.554	0.179	44.4	110	27200	30.7	0.304	12.2	0.374	0.474	160
		B18-10121	8.42	53.7	0.09	611	1.18	19.4	0.605	2.51	4.14	161	2.25	Low Exposure	0.28	0.387	10.7	106	0.642	0.251	60.3	149	33500	48.5	0.502	15.8	0.405	0.715	210
		B18-10123	9.72	55.6	0.10	524	1.54	33.4	1.04	2.67	2.56	106	2.55	Moderate Exposure	0.31	0.469	9.65	87.0	0.659	0.240	53.0	174	31200	47.1	0.346	14.4	0.462	0.616	224
		B18-10124	14.6	45.4	0.16	757	2.05	111	3.46	2.95	0.852	-24.9	2.50	Moderate Exposure	0.36	0.496	12.8	112	0.920	0.422	79.7	228	44000	62.3	0.711	21.7	0.629	1.07	313
		B18-10126	4.56	55.2	0.09	490	1.34	71.2	2.22	2.22	0.998	-0.320	2.17	Low Exposure	0.25	0.230	8.72	82.6	0.686	0.234	59.9	162	32400	41.9	0.506	16.2	0.459	0.800	206
		B18-10127	5.05	53.9	0.11	587	1.45	70.2	2.19	2.24	1.02	3.41	2.46	Moderate Exposure	0.45	0.693	9.90	94.0	0.624	0.520	69.0	196	33000	367	0.661	28.5	0.501	1.56	255
		B18-20133 (B18-10127-Rep)	5.33	51.1	0.10	582	1.43	154	4.80	2.44	0.509	-165	2.30	Low Exposure	0.60	0.520	10.8	99.1	0.727	0.520	71.6	202	34700	57.1	2.84	18.3	0.546	1.34	264
		B18-10132	6.63	72.9	0.01 J	218	0.25	5.97	0.186	0.699	3.75	205	1.17	Minimal Exposure	0.06	0.120	2.77	74.3	0.243	0.078	18.0	57.4	15400	7.72	0.065	7.14	0.130	0.100	69.9
		B18-10136	7.13	53.7	0.10	540	1.27	10.3	0.321	3.11	9.68	220	1.97	Low Exposure	0.22	0.292	9.02	96.7	0.685	0.230	62.1	154	34500	41.9	0.429	17.1	0.382	0.677	210
		B18-10137	10.7	49.6	0.12	609	1.45	33.1	1.03	3.22	3.12	151	1.97	Low Exposure	0.24	0.297	9.62	120	0.835	0.241	69.1	191	42600	40.5	0.447	19.8	0.508	0.748	233
		B18-10139	11.5	53.3	0.09	505	1.04	22.7	0.708	2.28	3.21	151	1.57	Minimal Exposure	0.16	0.187	8.07	106	0.610	0.139	50.7	132	34200	25.1	0.249	16.0	0.346	0.448	168
		B18-10140	9.11	50.4	0.12	561	1.40	25.3	0.789	2.55	3.23	126	1.88	Low Exposure	0.21	0.193	10.1	100	0.803	0.208	61.2	157	38200	33.9	0.360	17.5	0.485	0.674	209
		B18-10142	16.7	49.4	0.12	554	1.40	51.2	1.60	3.10	1.94	107	2.33	Low Exposure	0.60	0.359	9.21	101	0.690	0.235	62.7	193	38300	37.8	0.418	17.5	0.505	0.782	226
		B18-10143	5.78	66.8	0.05	272	0.55	29.5	0.920	1.15	1.25	41.4	1.22	Minimal Exposure	0.09	0.144	4.78	47.3	0.347	0.091	26.9	69.0	18100	15.1	0.134	7.59	0.204	0.314	98.2
	Shallow	B18-10032	12.5	72.8	0.01 J	263	0.26	8.53	0.266	1.09	4.10	318	1.05	Minimal Exposure	0.08	0.138	4.26	32.1	0.281	0.136	21.0	44.3	11700	13.9	0.193	5.20	0.201	0.386	87.8
		B18-10034	14.2	57.6	0.07	403	0.88	28.5	0.889	2.10	2.36	137	1.52	Minimal Exposure	0.15	0.156	6.72	57.3	0.462	0.142	45.2	79.7	24100	27.9	0.347	11.4	0.283	0.614	153
		B18-10035	11.1	57.3	0.06	458	0.83	24.7	0.770	2.08	2.70	158	1.38	Minimal Exposure	0.15	0.252	7.02	56.8	0.443	0.141	45.0	77.8	24800	26.0	0.330	10.9	0.254	0.881	156
		B18-10036	19.9	52.6	0.08	497	0.97	96.7	3.02	2.02	0.671	-102	1.52	Minimal Exposure	0.16	0.183	7.60	61.8	0.649	0.162	52.6	88.0	28800	29.6	0.355	12.5	0.307	0.673	184
South San Diego Bay	Freshwater-Influenced	B18-10037	18.0	54.7	0.11	484	1.14	166	5.18	1.53	0.295	-320	1.38	Minimal Exposure	0.13	0.159	6.88	95.6	0.538	0.184	43.0	91.6	31600	18.9	0.145	13.1	0.346	0.419	160
		B18-10040	5.41	73.9	0.01 J	176	0.15	9.01	0.281	0.341	1.21	40.1	1.00	Minimal Exposure	0.03	0.082	1.30	33.4	0.111	0.092	17.3	10.4	11000	2.82	0.014	4.20	0.090	0.120	36.5
		B18-10044	12.4	46.7	0.16	565	1.73	284	8.86	1.13	0.128	-447	1.60	Minimal Exposure	0.16	0.227	9.97	111	0.943	0.692	57.2	85.2	44100	24.4	0.131	19.7	0.630	0.491	220
		B18-10179	10.6	56.6	0.10	450	1.25	37.2	1.16	2.19	1.89	82.2	1.38	Minimal Exposure	0.15	0.201	6.73	113	0.566	0.377	40.7	86.6	32800	24.2	0.094	13.8	0.316	0.369	200
		B18-10180	10.1	63.9	0.07	409	0.76	19.9	0.621	1.33	2.14	92.8	1.41	Minimal Exposure	0.10	0.129	5.93	86.6	0.430	0.143	34.7	70.3	26500	14.8	0.106	10.8	0.265	0.304	125
		B18-10181	10.9	58.9	0.08	464	0.93	32.0	1.00	1.56	1.56	60.5	1.36	Minimal Exposure	0.13	0.135	6.37	100	0.476	0.151	36.8	72.1	29700	15.7	0.094	12.1	0.292	0.285	134
		B18-10200	27.3	57.9	0.13	301	1.66	494	15.4	0.953	0.062	-871	1.48	Minimal Exposure	0.11	0.356	6.13	64.9	0.382	0.651	21.7	36.8	17700	13.8	0.048	8.39	0.501	0.194	127
	Marina	B18-10085	6.08	62.2	0.05	311	0.53	95.8	2.99	1.85	0.620	-214	1.49	Minimal Exposure	0.10	0.127	3.69	49.8	0.335	0.101	26.7	105	17200	10.8	0.093	7.83	0.201	0.343	149
		B18-10086	6.93	63.2	0.04	328	0.51	9.32	0.291	2.06	7.07	346	1.49	Minimal Exposure	0.11	0.165	3.48	58.0	0.375	0.127	28.3	113	18100	12.0	0.094	8.58	0.192	0.344	144
		B18-10087	4.05	54.4	0.09	434	0.98	68.5	2.14	2.81	1.31	68.2	1.71	Low Exposure	0.16	0.173	7.50	94.5	0.746	0.253	53.1	141	34200	18.6	0.105	15.2	0.377	0.619	227
	Shallow	B18-10038	6.04	72.5	0.01 J	226	0.21	7.38	0.230	0.875	3.80	307	1.00	Minimal Exposure	0.05	0.099	3.83	31.1	0.181	0.094	13.8	25.4	9860	7.27	0.094	3.77	0.107	0.215	68.7
		B18-10039	8.11	44.2	0.16	739	1.51	53.2	1.66	3.17	1.91	100	1.90	Low Exposure	0.25	0.242	11.9	92.4	0.971	0.218	83.2	138	47100	40.3	0.473	20.6	0.429	0.946	299
		B18-10041	9.45	60.3	0.06	426	0.65	74.4	2.32	1.71	0.737	-93.8	1.21	Minimal Exposure	0.09	0.130	6.63	45.9	0.361	0.167	28.8	44.7	21400	13.1	0.132	8.14	0.261	0.323	153
		B18-10042	13.0	46.0	0.15	595	1.42	39.2	1.22	2.56	2.09	94.0	1.54	Minimal Exposure	0.16	0.176	9.73	87.1	0.719	0.185	55.4	93.6	39600	25.0	0.190	16.9	0.370	0.448	219
		B18-10043	11.7	49.6	0.12	400	1.45	324	10.1	0.928	0.092	-633	1.42	Minimal Exposure	0.11	0.214	6.23	67.4	0.538	0.483	32.2	54.3	26400	17.0	0.075	11.1	0.361	0.298	156
		B18-20043 (B18-10043-Rep)	23.5	47.7	0.14	417	1.62	221	6.89	1.18	0.171	-353	1.38	Minimal Exposure	0.10	0.214	6.27	60.0	0.580	0.416	31.7	54.4	26000	16.6	0.080	11.5	0.389	0.342	150
		B18-10088	10.8	46.0	0.17	730	1.63	70.6	2.20	3.63	1.65	87.6	1.85	Low Exposure	0.22	0.341	11.9	98.6	0.881	0.311	69.7	144	46100	34.5	0.282	20.4	0.520	0.869	328

Notes:
All values reported in dry weight
ug/kg = micrograms per dry kilogram
mg/kg = milligrams per dry kilogram
umol/g = micromoles per gram
< Data reported to the method detection limit
J = estimated result, below the reporting limit, but above the MDL
% = percent
CSI = Chemical Score Index

Table F-3. 2018 RHMP Sediment Chemistry Results Summary Table

Harbor	Strata	Station ID	Total PAHs[1] (µg/kg)	Total PCBs[1] (µg/kg)	Pesticides (µg/kg)							Total PBDEs[1] (µg/kg)	% Fines (Silt + Clay)
					2,4'-DDD & 4,4'-DDD	2,4'-DDE & 4,4'-DDE	2,4'-DDT & 4,4'-DDT	Total Detectable DDTs[2]	Total Chlordanes[3] (µg/kg)	Total Pyrethroids[1] (µg/kg)	Total Fipronils[4] (µg/kg)		
Dana Point Harbor	Shallow	B18-10065	211	5.31	0.321 J	2.1	< 0.194	2.42	0.195 J	0.819	< 0.25	8.43	45.8
	Deep	B18-10068	266	1.15	< 0.267	1.95	< 0.194	1.95	< 0.25	2.90	< 0.25	2.74	52.6
	Freshwater-Influenced	B18-10066	681	5.52	< 0.267	4.05	< 0.194	4.05	2.21	32.0	0.55	56.3	67.1
	Marina	B18-10067	381	4.57	< 0.267	1.88	< 0.194	1.88	< 0.25	7.28	< 0.25	14.5	67.3
Oceanside Harbor	Deep	B18-10071	196	0.410	0.561	2.58	< 0.194	3.141	< 0.25	1.65	< 0.25	5.28	50.0
	Freshwater-Influenced	B18-10070	132	1.51	< 0.267	1.89	< 0.194	1.89	< 0.25	0.383 J	< 0.25	4.99	62.3
	Marina	B18-10069	182	5348	0.554	2.60	< 0.194	3.15	< 0.25	0.410 J	< 0.25	20.4	52.9
		B18-10072	543	6.21	< 0.267	2.86	< 0.194	2.86	< 0.25	1.14	< 0.25	24.7	43.6
Mission Bay	Deep	B18-10019	45.6	< 0.168	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	6.4
		B18-10020	31.7	< 0.168	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	0.746	8.9
	Freshwater-Influenced	B18-10015	807	2.71	< 0.267	1.27	< 0.194	1.27	4.14	13.9	< 0.25	9.11	51.9
	Marina	B18-10074	170	1.05	< 0.267	0.387 J	< 0.194	0.387 J	< 0.25	0.254 J	< 0.25	2.27	47.8
		B18-10075	405	8.26	< 0.267	0.890	< 0.194	0.89	< 0.25	0.297 J	< 0.25	14.4	44.4
	Shallow	B18-10016	118	0.165 J	< 0.267	0.217 J	< 0.194	0.217 J	< 0.25	0.437 J	< 0.25	1.68	39.3
		B18-10017	287	1.97	< 0.267	0.649	< 0.194	0.649	0.670	2.66	< 0.25	7.89	56.2
		B18-10073	258	1.00	< 0.267	0.399 J	< 0.194	0.399 J	< 0.25	< 0.28	< 0.25	2.11	39.1
		B18-10438 (overdraw)	388	2.73	< 0.267	0.302 J	< 0.194	0.302 J	< 0.25	< 0.28	< 0.25	7.05	56.7
North San Diego Bay	Deep	B18-10022	208	4.17	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	19.2
		B18-10023	120	1.28	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	0.423 J	0.896	17.2
		B18-10024	2292	6.11	< 0.267	0.463 J	< 0.194	0.463 J	< 0.25	0.253 J	< 0.25	0.768	50.3
		B18-10030	30.4	< 0.168	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	0.201	2.4
		B18-10112	2386	29.5	< 0.267	1.06	< 0.194	1.06	< 0.25	1.20	< 0.25	1.05	50.4
		B18-10113	5126	12.2	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	1.29	< 0.25	5.56	63.9
		B18-10116	130	0.261	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	6.2
		B18-20116 (B18-10116-Rep)	72.2	2.03	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	9.4
		B18-10117	1635	4.71	< 0.267	0.671	< 0.194	0.671	< 0.25	0.972	< 0.25	0.944	56.6
	Freshwater-Influenced	B18-10029	3289	43.9	3.76	6.86	< 0.194	10.6	22.7	57.4	1.97	13.3	54.2
		B18-10076	2221	189	1.73	3.58	< 0.194	5.31	13.0	23.1	< 0.25	5.13	56.5
	Industrial/Port	B18-10114	4101	40.3	< 0.267	2.18	< 0.194	2.18	4.54	16.1	< 0.25	7.46	68.5
		B18-10115	3325	35.1	0.759	0.915	< 0.194	1.674	0.198 J	0.450 J	< 0.25	1.4	56.6
	Marina	B18-10078	2527	241	0.975	1.69	< 0.194	2.67	< 0.25	0.325 J	< 0.25	6.00	44.4
		B18-10079	2181	41.7	< 0.267	0.614	< 0.194	0.614	< 0.25	< 0.28	< 0.25	1.92	48.4
		B18-10080	1080	20.2	< 0.267	0.736	< 0.194	0.736	< 0.25	0.944	< 0.25	< 0.05	62.6
		B18-10081	1235	34.0	0.972	2.23	< 0.194	3.20	4.27	3.07	< 0.25	2.11	57.7
		B18-10082	421	12.6	< 0.267	0.517	< 0.194	0.517	< 0.25	< 0.28	< 0.25	1.21	54.6
		B18-10083	736	11.9	< 0.267	0.689	< 0.194	0.689	< 0.25	0.232 J	< 0.25	0.904	53.4
		B18-10084	896	8.19	< 0.267	0.779	< 0.194	0.779	< 0.25	< 0.28	< 0.25	1.36	65.0
	Shallow	B18-10077	486	5.46	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	0.472	25.2
Central San Diego Bay	Deep	B18-10133	178	2.34	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	83.1
		B18-10141	437	6.95	0.978	< 0.2	9.35	10.3	< 0.25	< 0.28	< 0.25	0.186	60.2
		B18-10144	161	4.57	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	23.4
	Freshwater-Influenced	B18-10031	2278	42.7	1.26	4.16	< 0.194	5.42	10.7	24.2	0.29	9.00	66.9
		B18-10178	3891	47.8	12.8	13.8	< 0.194	26.67	46.82	127	3.85	58.6	67.0
	Industrial/Port	B18-10119	2615	35.7	< 0.267	0.979	< 0.194	0.979	0.219 J	1.57	< 0.25	2.52	74.5
		B18-10121	2254	32.2	1.58	1.488	< 0.194	3.07	0.782	1.67	< 0.25	5.00	68.2
		B18-10123	1796	99.4	3.71	2.51	< 0.194	6.22	4.44	15.0	< 0.25	6.62	73.4
		B18-10124	2386	57.4	< 0.267	2.05	< 0.194	2.05	2.01	3.43	< 0.25	7.80	87.5
		B18-10126	1386	44.5	< 0.267	1.24	< 0.194	1.24	< 0.25	1.70	< 0.25	3.62	68.3
		B18-10127	2573	76.1	< 0.267	2.17	< 0.194	2.17	0.377 J	< 0.28	< 0.25	5.11	74.7
		B18-20133 (B18-10127-Rep)	2517	142	2.57	2.15	< 0.194	4.72	0.347 J	1.89	< 0.25	24.2	78.0
		B18-10132	639	4.81	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	3.06	19.2
		B18-10136	1024	17.6	< 0.267	0.896	< 0.194	0.896	< 0.25	0.525	< 0.25	4.14	75.9
		B18-10137	1678	17.2	< 0.267	1.15	< 0.194	1.15	< 0.25	1.146	< 0.25	20.1	82.7
		B18-10139	1041	7.57	< 0.267	0.434 J	< 0.194	0.434 J	< 0.25	< 0.28	< 0.25	< 0.05	64.6
		B18-10140	1325	10.5	< 0.267	0.645	< 0.194	0.645	< 0.25	< 0.28	< 0.25	2.41	76.7
		B18-10142	2139	14.5	22.8	0.851	198	221	< 0.25	0.253 J	< 0.25	1.85	75.5
		B18-10143	348	6.81	< 0.267	0.238 J	< 0.194	0.238 J	< 0.25	< 0.28	< 0.25	4.89	22.6
	Shallow	B18-10032	282	4.26	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	0.691	22.7
		B18-10034	307	4.34	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	44.9
		B18-10035	328	5.68	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	41.4
		B18-10036	238	3.04	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	50.1
South San Diego Bay	Freshwater-Influenced	B18-10037	303	9.28	< 0.267	0.579	< 0.194	0.579	< 0.25	0.669	< 0.25	2.44	52.1
		B18-10040	23.8	< 0.168	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	10.6
		B18-10044	300	5.63	< 0.267	1.56	< 0.194	1.56	< 0.25	5.91	< 0.25	19.5	60.6
		B18-10179	389	10.4	< 0.267	3.60	< 0.194	3.60	1.18	4.99	< 0.25	8.11	32.4
		B18-10180	253	5.88	< 0.267	0.557	1.61	2.17	< 0.25	2.34	< 0.25	8.71	34.0
		B18-10181	296	4.85	< 0.267	0.697	1.48	2.18	< 0.25	3.10	< 0.25	3.57	47.4
		B18-10200	421	5.68	2.76	5.167	< 0.194	7.93	3.017	36.4	< 0.25	8.81	63.0
	Marina	B18-10085	135	1.09	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	0.225 J	< 0.25	1.46	26.7
		B18-10086	285	2.49	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	0.376 J	< 0.25	13.6	30.0
		B18-10087	133	3.77	< 0.267	0.348 J	< 0.194	0.348 J	< 0.25	0.224 J	< 0.25	1.74	64.8
	Shallow	B18-10038	85.9	1.64	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	14.6
		B18-10039	219	4.64	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	69.1
		B18-10041	104	1.59	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	21.7
		B18-10042	227	1.60	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	75.4
		B18-10043	297	5.23	< 0.267	1.56	2.25	3.81	< 0.25	3.81	< 0.25	1.89	31.9
		B18-20043 (B18-10043-Rep)	315	4.37	< 0.267	1.38	< 0.194	1.38	< 0.25	4.18	< 0.25	0.45	41.4
		B18-10088	236	1.42	< 0.267	< 0.2	< 0.194	< 0.267	< 0.25	< 0.28	< 0.25	< 0.05	86.6

Notes:

All values reported in dry weight
ug/kg = micrograms per dry kilogram
mg/kg = milligrams per dry kilogram
umol/g = micromoles per gram
< Data reported to the method detection limit
J = estimated result, below the reporting limit, but above the MDL
% = percent
CSI = Chemical Score Index

PAH = Polycyclic Aromatic Hydrocarbons
PCB = Polychlorinated Biphenyl
PBDE = Polybrominated diphenyl ethers
1 = The specific compounds comprising the sums of the PAH, PCB, PBDE, and pyrethroid groups are listed in Appendix Table B-2
2 = Total detectable DDTs includes the sum of 2,4'-DDD, 4,4'-DDD, 2,4'-DDE, 4,4'-DDE, 2,4'-DDT, and 4,4'-DDT
3 = Total Chlordanes incldues the sum of alpha-chlordane, gamma-chlordane, cis-nonachlor, trans-nonachlor and oxychlordane.
4 = Total Fipronils include the sum of fipronil, fipronil desulfinyl, fironil sulfide, and fipronil sulfone.
Non-detects were treated as 0 and estimated results were treated as the reported value for summing purposes.

Table F-4. 2018 RHMP Grain Size Summary Table

Harbor	Strata	Station	Grain Size Classification (%)				
			Gravel	Sand	Silt	Clay	Fines (Silt + Clay)
Dana Point Harbor	Deep	B18-10068	0.0	47.2	47.2	5.4	52.6
	Freshwater-Influenced	B18-10066	0.0	33.0	56.1	11.0	67.1
	Marina	B18-10067	0.0	32.7	53.7	13.6	67.3
	Shallow	B18-10065	0.0	54.9	40.5	5.3	45.8
Oceanside Harbor	Deep	B18-10071	0.0	50.0	45.7	4.3	50.0
	Freshwater-Influenced	B18-10070	0.0	37.7	56.2	6.1	62.3
	Marina	B18-10069	0.0	46.8	47.0	5.9	52.9
		B18-10072	0.0	57.0	38.0	5.6	43.6
Mission Bay	Deep	B18-10019	0.0	93.5	5.5	0.9	6.4
		B18-10020	0.0	90.8	7.6	1.3	8.9
	Freshwater-Influenced	B18-10015	0.0	47.9	42.5	9.4	51.9
	Marina	B18-10074	0.0	52.4	42.7	5.1	47.8
		B18-10075	0.0	55.5	39.2	5.2	44.4
	Shallow	B18-10016	0.0	60.5	35.4	3.9	39.3
		B18-10017	0.0	43.3	44.8	11.4	56.2
		B18-10073	0.0	61.4	35.1	4.0	39.1
		B18-10438 (overdraw)	0.0	43.2	50.3	6.4	56.7
San Diego Bay - North	Deep	B18-10022	0.0	81.0	16.9	2.3	19.2
		B18-10023	0.0	82.8	13.8	3.4	17.2
		B18-10024	0.0	49.7	38.6	11.7	50.3
		B18-10030	55.1	42.7	1.8	0.6	2.4
		B18-10112	0.0	49.2	39.8	10.6	50.4
		B18-10113	0.0	36.2	49.5	14.4	63.9
		B18-10116	4.5	88.7	4.6	1.6	6.2
		B18-10117	0.0	44.0	47.6	9.0	56.6
	Freshwater-Influenced	B18-10029	0.0	45.6	43.1	11.1	54.2
		B18-10076	0.0	43.7	47.5	9.0	56.5
	Industrial/Port	B18-10114	0.0	30.9	51.8	16.7	68.5
		B18-10115	0.0	43.5	42.1	14.5	56.6
	Marina	B18-10078	0.0	55.7	36.7	7.7	44.4
		B18-10079	0.0	52.1	42.2	6.2	48.4
		B18-10080	0.0	37.1	47.2	15.4	62.6
		B18-10081	0.0	42.2	46.8	10.9	57.7
		B18-10082	0.0	45.5	43.9	10.7	54.6
		B18-10083	0.0	46.7	42.4	11.0	53.4
		B18-10084	0.0	35.0	53.8	11.2	65.0
	Shallow	B18-10077	0.0	75.0	22.5	2.7	25.2
San Diego Bay - Central	Deep	B18-10133	0.0	17.2	63.3	19.8	83.1
		B18-10141	0.0	39.5	46.2	14.0	60.2
		B18-10144	0.0	75.9	17.7	5.7	23.4
	Freshwater-Influenced	B18-10031	0.0	33.2	50.9	16.0	66.9
		B18-10178	0.0	33.0	55.9	11.1	67.0
	Industrial/Port	B18-10119	0.0	25.5	56.0	18.5	74.5
		B18-10121	0.0	32.2	51.1	17.1	68.2
		B18-10123	0.0	26.5	55.0	18.4	73.4
		B18-10124	0.0	12.4	65.5	22.0	87.5
		B18-10126	0.0	31.7	53.8	14.5	68.3
		B18-10127	0.0	25.4	55.0	19.7	74.7
		B18-10132	0.0	81.1	15.4	3.8	19.2
		B18-10136	0.0	24.7	55.5	20.4	75.9
		B18-10137	0.0	17.1	63.0	19.7	82.7
		B18-10139	0.0	35.1	50.9	13.7	64.6
		B18-10140	0.0	23.7	58.4	18.3	76.7
		B18-10142	0.0	24.6	56.7	18.8	75.5
		B18-10143	0.0	77.1	16.8	5.8	22.6
	Shallow	B18-10032	0.0	77.5	17.5	5.2	22.7
		B18-10034	0.0	54.8	33.4	11.5	44.9
		B18-10035	0.0	58.3	30.5	10.9	41.4
		B18-10036	0.0	50.0	35.9	14.2	50.1
San Diego Bay - South	Freshwater-Influenced	B18-10037	0.0	47.5	41.2	10.9	52.1
		B18-10040	0.0	89.1	9.3	1.3	10.6
		B18-10044	0.0	39.3	48.3	12.3	60.6
		B18-10179	0.0	67.1	25.8	6.6	32.4
		B18-10180	0.0	65.5	28.2	5.8	34.0
		B18-10181	0.0	52.0	38.6	8.8	47.4
		B18-10200	0.0	37.2	52.8	10.2	63.0
	Marina	B18-10085	0.0	72.9	19.7	7.0	26.7
		B18-10086	0.0	70.3	22.2	7.8	30.0
		B18-10087	0.0	35.7	48.3	16.5	64.8
	Shallow	B18-10038	0.0	85.3	11.8	2.8	14.6
		B18-10039	0.0	30.2	50.9	18.2	69.1
		B18-10041	0.0	77.9	17.8	3.9	21.7
		B18-10042	0.0	25.0	55.3	20.1	75.4
		B18-10043	0.0	67.9	25.6	6.3	31.9
		B18-10088	0.0	13.3	65.6	21.0	86.6

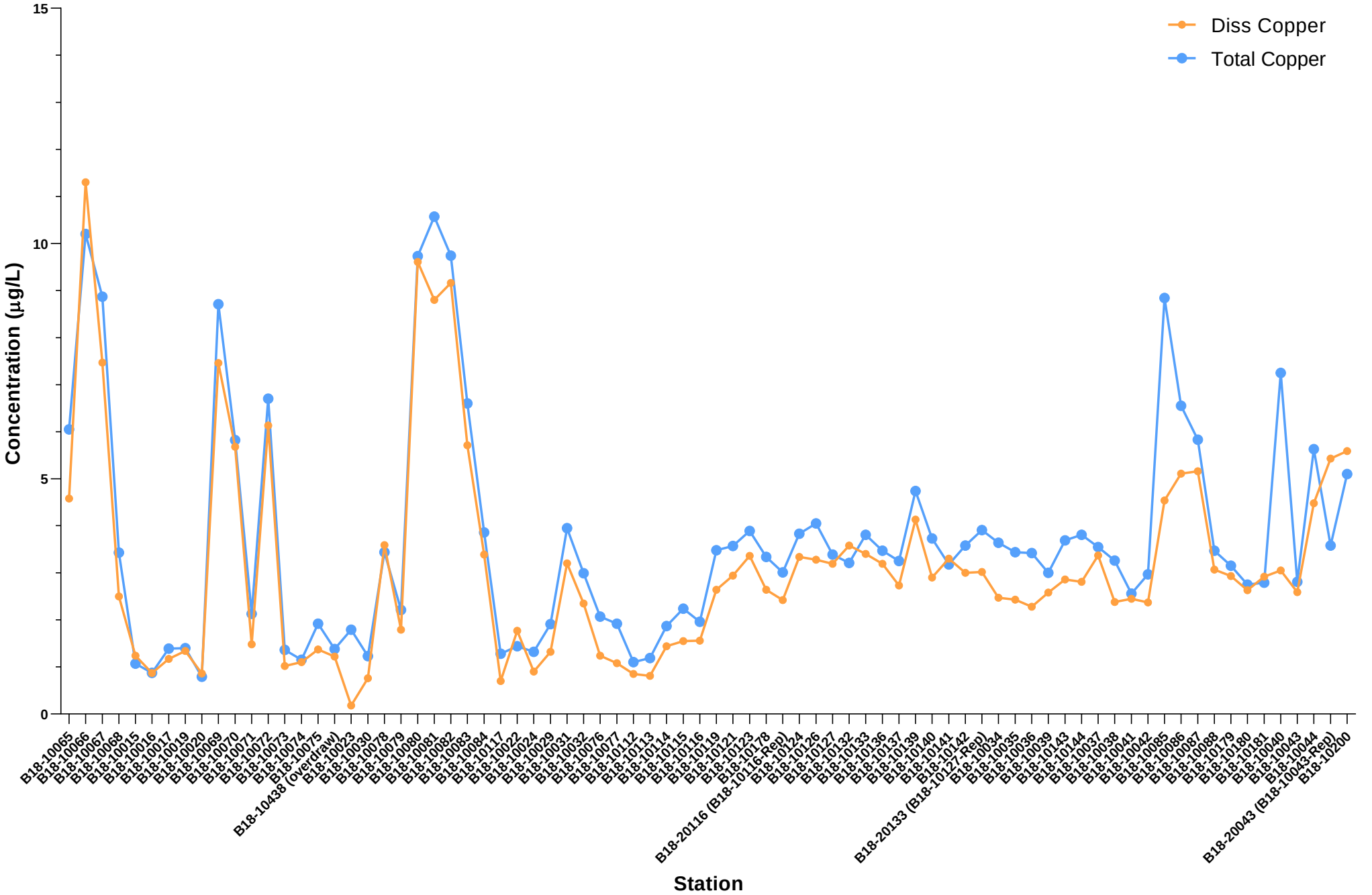
Notes:
% - percent

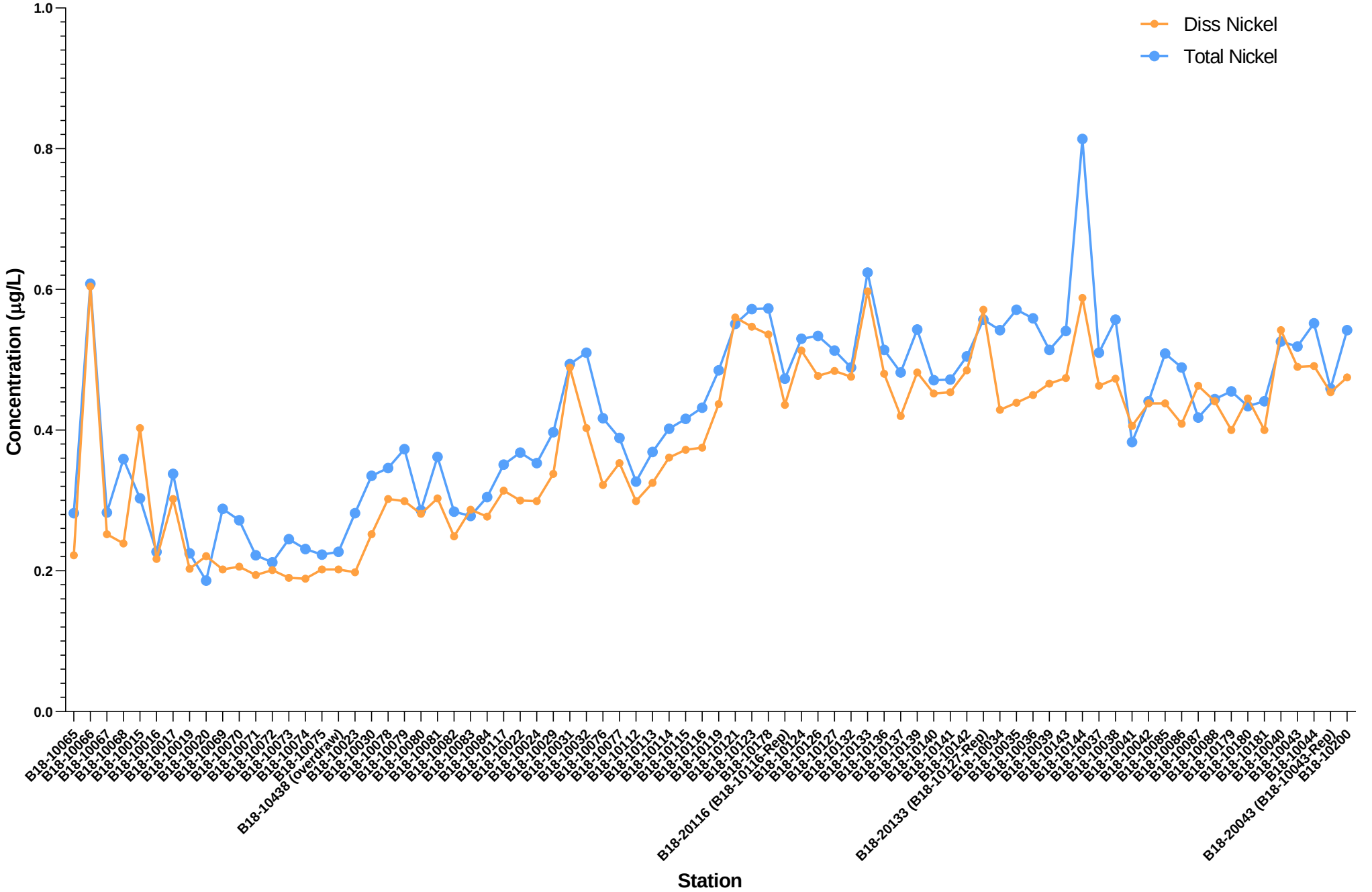
Chemistry
SQO Line of Evidence Matrix

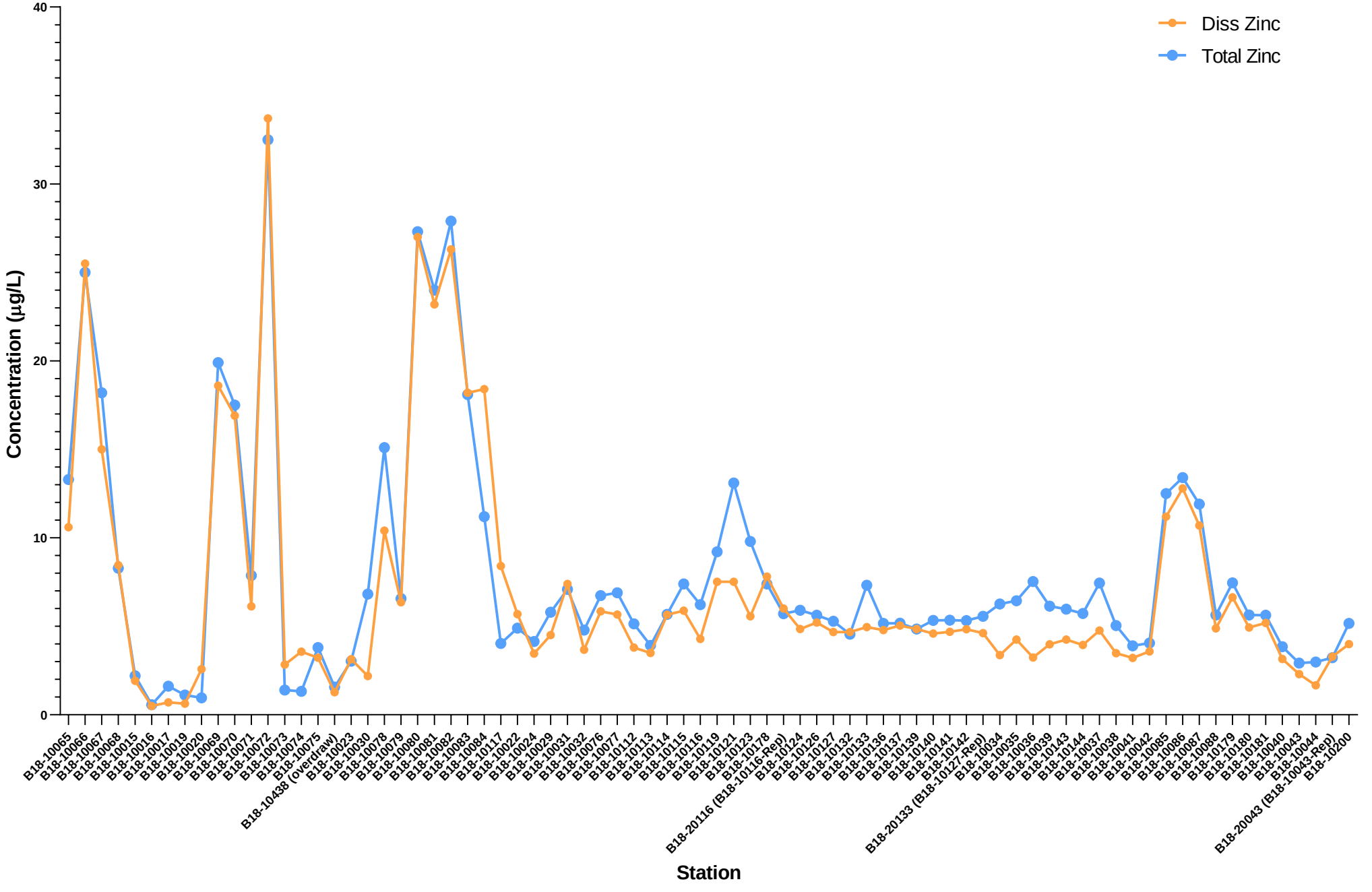
Appendix Table F-5.
2018 RHMP Sediment Quality Objectives (SQO) Assessment
Chemistry Scores

Harbor	Strata	Station ID	CSI category	CA LRM category	Integrated Chemistry Indicator
Dana Point Harbor	Deep	B18-10068	Minimal Exposure	Moderate Exposure	Low Exposure
	Freshwater-Influenced	B18-10066	Low Exposure	High Exposure	Moderate Exposure
	Marina	B18-10067	Low Exposure	High Exposure	Moderate Exposure
	Shallow	B18-10065	Minimal Exposure	Low Exposure	Low Exposure
Oceanside Harbor	Deep	B18-10071	Minimal Exposure	Low Exposure	Low Exposure
	Freshwater-Influenced	B18-10070	Low Exposure	Moderate Exposure	Moderate Exposure
	Marina	B18-10069	Low Exposure	High Exposure	Moderate Exposure
		B18-10072	Low Exposure	High Exposure	Moderate Exposure
Mission Bay	Deep	B18-10019	Minimal Exposure	Minimal Exposure	Minimal Exposure
		B18-10020	Minimal Exposure	Minimal Exposure	Minimal Exposure
	Freshwater-Influenced	B18-10015	Minimal Exposure	Moderate Exposure	Low Exposure
	Marina	B18-10074	Minimal Exposure	Low Exposure	Low Exposure
		B18-10075	Low Exposure	Moderate Exposure	Moderate Exposure
	Shallow	B18-10016	Minimal Exposure	Low Exposure	Low Exposure
		B18-10017	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10073	Minimal Exposure	Low Exposure	Low Exposure
		B18-10438 (overdraw)	Minimal Exposure	Moderate Exposure	Low Exposure
San Diego Bay - North	Deep	B18-10022	Minimal Exposure	Low Exposure	Low Exposure
		B18-10023	Minimal Exposure	Minimal Exposure	Minimal Exposure
		B18-10024	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10030	Minimal Exposure	Minimal Exposure	Minimal Exposure
		B18-10112	Low Exposure	Low Exposure	Low Exposure
		B18-10113	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10116	Minimal Exposure	Minimal Exposure	Minimal Exposure
		B18-10117	Minimal Exposure	Moderate Exposure	Low Exposure
	Freshwater-Influenced	B18-10029	Moderate Exposure	High Exposure	High Exposure
		B18-10076	Low Exposure	Moderate Exposure	Moderate Exposure
	Industrial/Port	B18-10114	Moderate Exposure	Moderate Exposure	Moderate Exposure
		B18-10115	Low Exposure	Moderate Exposure	Moderate Exposure
	Marina	B18-10078	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10079	Minimal Exposure	Low Exposure	Low Exposure
		B18-10080	Low Exposure	High Exposure	Moderate Exposure
		B18-10081	Moderate Exposure	Moderate Exposure	Moderate Exposure
		B18-10082	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10083	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10084	Low Exposure	Moderate Exposure	Moderate Exposure
	Shallow	B18-10077	Minimal Exposure	Low Exposure	Low Exposure
San Diego Bay - Central	Deep	B18-10133	Minimal Exposure	Low Exposure	Low Exposure
		B18-10141	Minimal Exposure	Low Exposure	Low Exposure
		B18-10144	Minimal Exposure	Low Exposure	Low Exposure
	Freshwater-Influenced	B18-10031	Moderate Exposure	Moderate Exposure	Moderate Exposure
		B18-10178	Moderate Exposure	High Exposure	High Exposure
	Industrial/Port	B18-10119	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10121	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10123	Moderate Exposure	Moderate Exposure	Moderate Exposure
		B18-10124	Moderate Exposure	High Exposure	High Exposure
		B18-10126	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10127	Moderate Exposure	High Exposure	High Exposure
		B18-10132	Minimal Exposure	Low Exposure	Low Exposure
		B18-10136	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10137	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10139	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10140	Low Exposure	Moderate Exposure	Moderate Exposure
		B18-10142	Low Exposure	High Exposure	Moderate Exposure
		B18-10143	Minimal Exposure	Low Exposure	Low Exposure
	Shallow	B18-10032	Minimal Exposure	Low Exposure	Low Exposure
		B18-10034	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10035	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10036	Minimal Exposure	Moderate Exposure	Low Exposure
San Diego Bay - South	Freshwater-Influenced	B18-10037	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10040	Minimal Exposure	Minimal Exposure	Minimal Exposure
		B18-10044	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10179	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10180	Minimal Exposure	Low Exposure	Low Exposure
		B18-10181	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10200	Minimal Exposure	Low Exposure	Low Exposure
	Marina	B18-10085	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10086	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10087	Low Exposure	Moderate Exposure	Moderate Exposure
	Shallow	B18-10038	Minimal Exposure	Low Exposure	Low Exposure
		B18-10039	Low Exposure	High Exposure	Moderate Exposure
		B18-10041	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10042	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10043	Minimal Exposure	Moderate Exposure	Low Exposure
		B18-10088	Low Exposure	High Exposure	Moderate Exposure

Dissolved vs Total Copper, Nickel, and Zinc Plots


Diss Copper
Total Copper
Concentration (µg/L)
15
10
5
0
Station
B18-10065
B18-10066
B18-10067
B18-10068
B18-10015
B18-10016
B18-10017
B18-10019
B18-10020
B18-10069
B18-10070
B18-10071
B18-10072
B18-10073
B18-10074
B18-10075
B18-10438 (overdraw)
B18-10023
B18-10030
B18-10078
B18-10079
B18-10080
B18-10081
B18-10082
B18-10083
B18-10084
B18-10117
B18-10022
B18-10024
B18-10029
B18-10031
B18-10032
B18-10076
B18-10077
B18-10112
B18-10113
B18-10114
B18-10115
B18-10116
B18-10119
B18-10121
B18-10123
B18-20116 (B18-10116-Rep)
B18-10124
B18-10126
B18-10127
B18-10132
B18-10133
B18-10136
B18-10137
B18-10139
B18-10140
B18-10141
B18-10142
B18-20133 (B18-10127-Rep)
B18-10034
B18-10035
B18-10036
B18-10039
B18-10143
B18-10144
B18-10037
B18-10038
B18-10041
B18-10042
B18-10085
B18-10086
B18-10087
B18-10088
B18-10179
B18-10180
B18-10181
B18-10040
B18-10043
B18-10044
B18-20043 (B18-10043-Rep)
B18-10200


Diss Nickel
Total Nickel
Concentration (µg/L)
1.0
0.8
0.6
0.4
0.2
0.0
Station
B18-10065
B18-10066
B18-10067
B18-10068
B18-10015
B18-10016
B18-10017
B18-10019
B18-10020
B18-10069
B18-10070
B18-10071
B18-10072
B18-10073
B18-10074
B18-10075
B18-10438 (overdraw)
B18-10023
B18-10030
B18-10078
B18-10079
B18-10080
B18-10081
B18-10082
B18-10083
B18-10084
B18-10117
B18-10022
B18-10024
B18-10029
B18-10031
B18-10032
B18-10076
B18-10077
B18-10112
B18-10113
B18-10114
B18-10115
B18-10116
B18-10119
B18-10121
B18-10123
B18-10178
B18-20116 (B18-10116-Rep)
B18-10124
B18-10126
B18-10127
B18-10132
B18-10133
B18-10136
B18-10137
B18-10139
B18-10140
B18-10141
B18-10142
B18-20133 (B18-10127-Rep)
B18-10034
B18-10035
B18-10036
B18-10039
B18-10143
B18-10144
B18-10037
B18-10038
B18-10041
B18-10042
B18-10085
B18-10086
B18-10087
B18-10088
B18-10179
B18-10180
B18-10181
B18-10040
B18-10043
B18-10044
B18-20043 (B18-10043-Rep)
B18-10200


Diss Zinc
Total Zinc
Concentration (µg/L)
40
30
20
10
0
Station
B18-10065
B18-10066
B18-10067
B18-10068
B18-10015
B18-10016
B18-10017
B18-10019
B18-10020
B18-10069
B18-10070
B18-10071
B18-10072
B18-10073
B18-10074
B18-10075
B18-10438 (overdraw)
B18-10023
B18-10030
B18-10078
B18-10079
B18-10080
B18-10081
B18-10082
B18-10083
B18-10084
B18-10117
B18-10022
B18-10024
B18-10029
B18-10031
B18-10032
B18-10076
B18-10077
B18-10112
B18-10113
B18-10114
B18-10115
B18-10116
B18-10119
B18-10121
B18-10123
B18-10178
B18-20116 (B18-10116-Rep)
B18-10124
B18-10126
B18-10127
B18-10132
B18-10133
B18-10136
B18-10137
B18-10139
B18-10140
B18-10141
B18-10142
B18-20133 (B18-10127-Rep)
B18-10034
B18-10035
B18-10036
B18-10039
B18-10143
B18-10144
B18-10037
B18-10038
B18-10041
B18-10042
B18-10085
B18-10086
B18-10087
B18-10088
B18-10179
B18-10180
B18-10181
B18-10040
B18-10043
B18-10044
B18-20043 (B18-10043-Rep)
B18-10200

Geographical Distribution Maps for Select Chemical Parameters

Water

Dana Point Harbor

2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

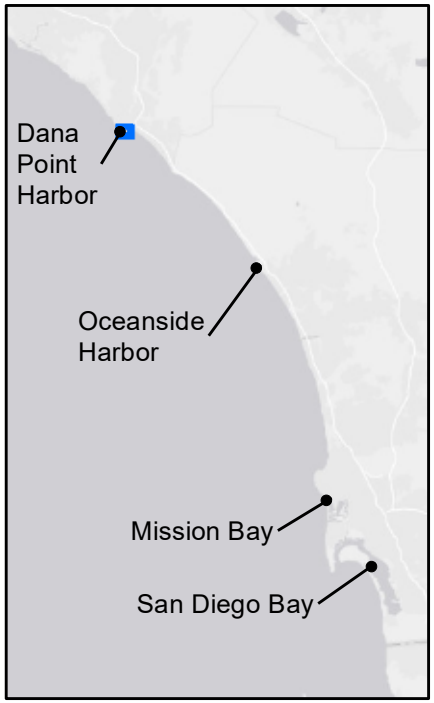
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

Note: Concentrations bins are based on USEPA and CTR water quality criteria.

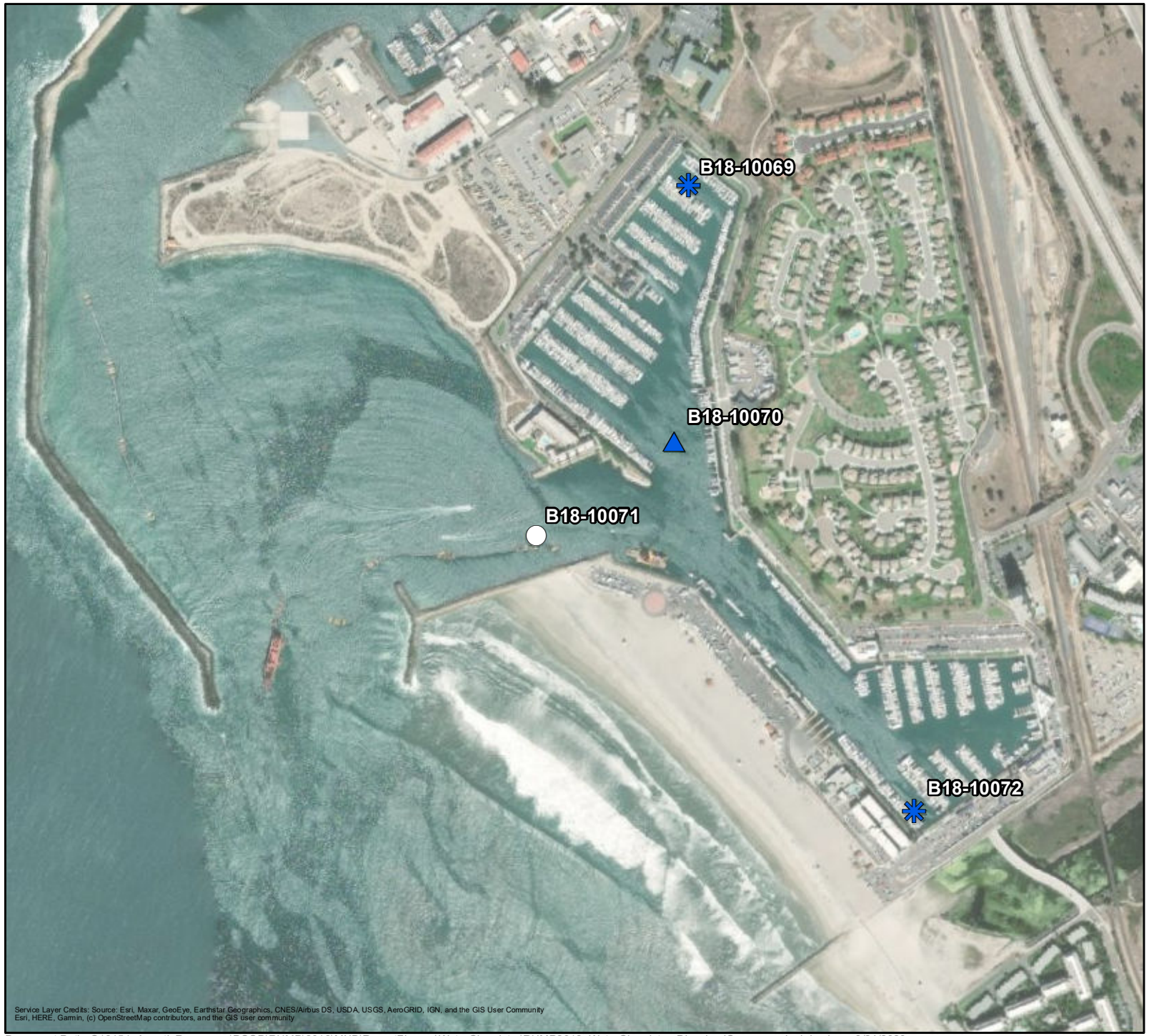
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedCopper.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

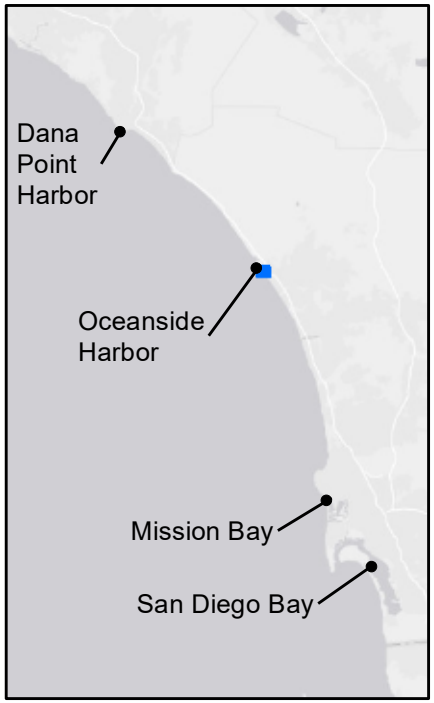
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

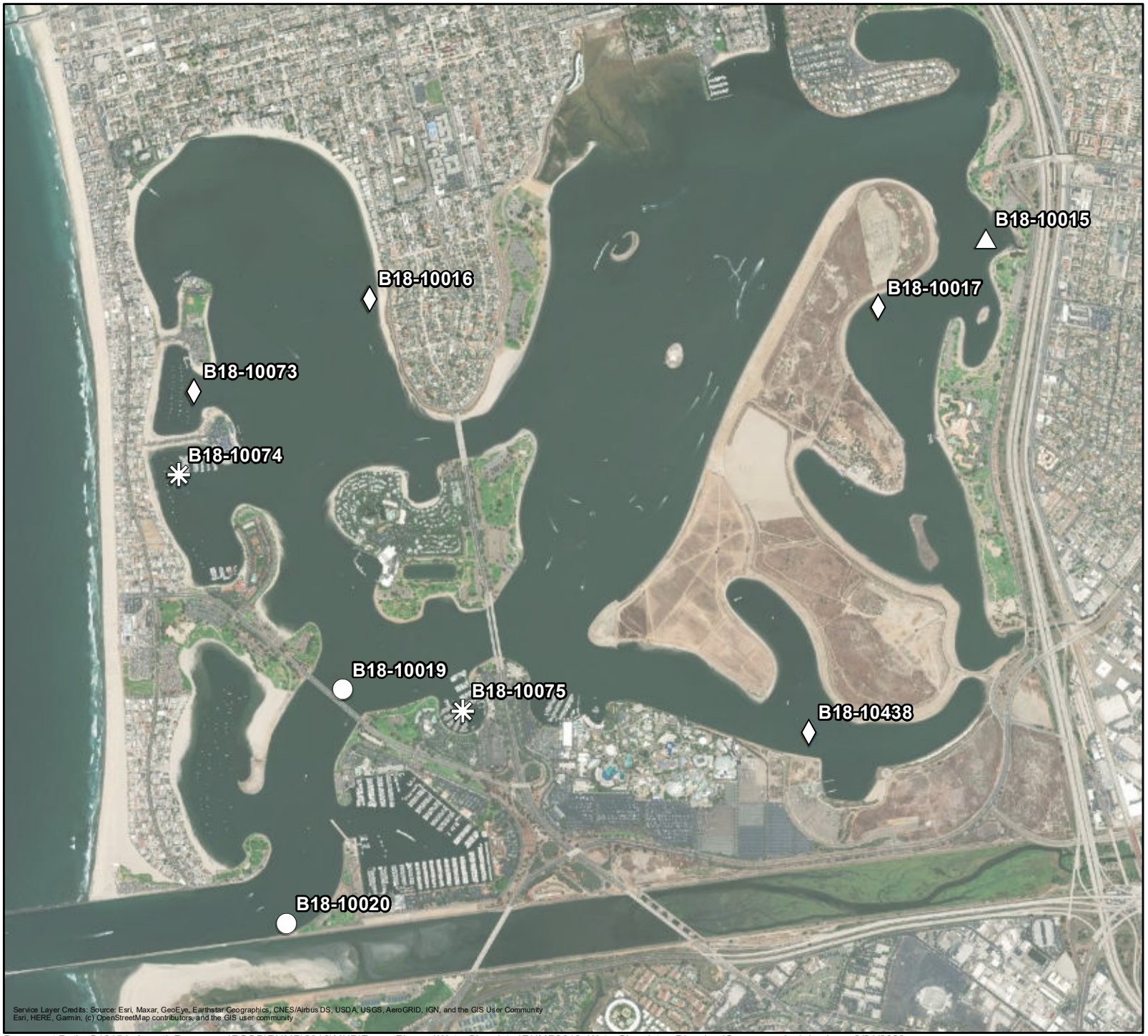
Note: Concentrations bins are based on USEPA and CTR water quality criteria.

wood.

0 0.15 0.3 km



Mission Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

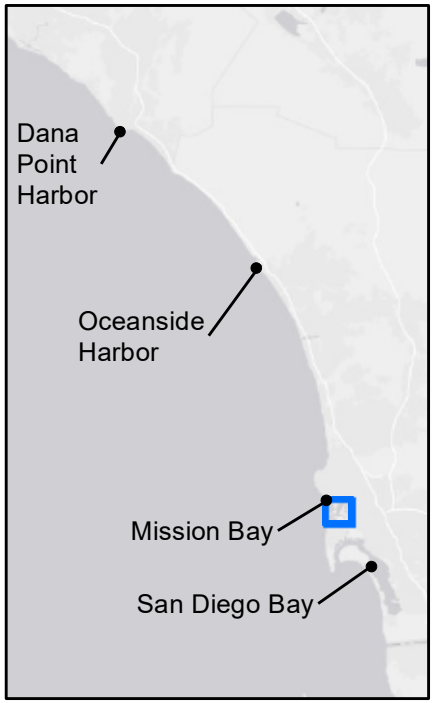
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

Note: Concentrations bins are based on USEPA and CTR water quality criteria.

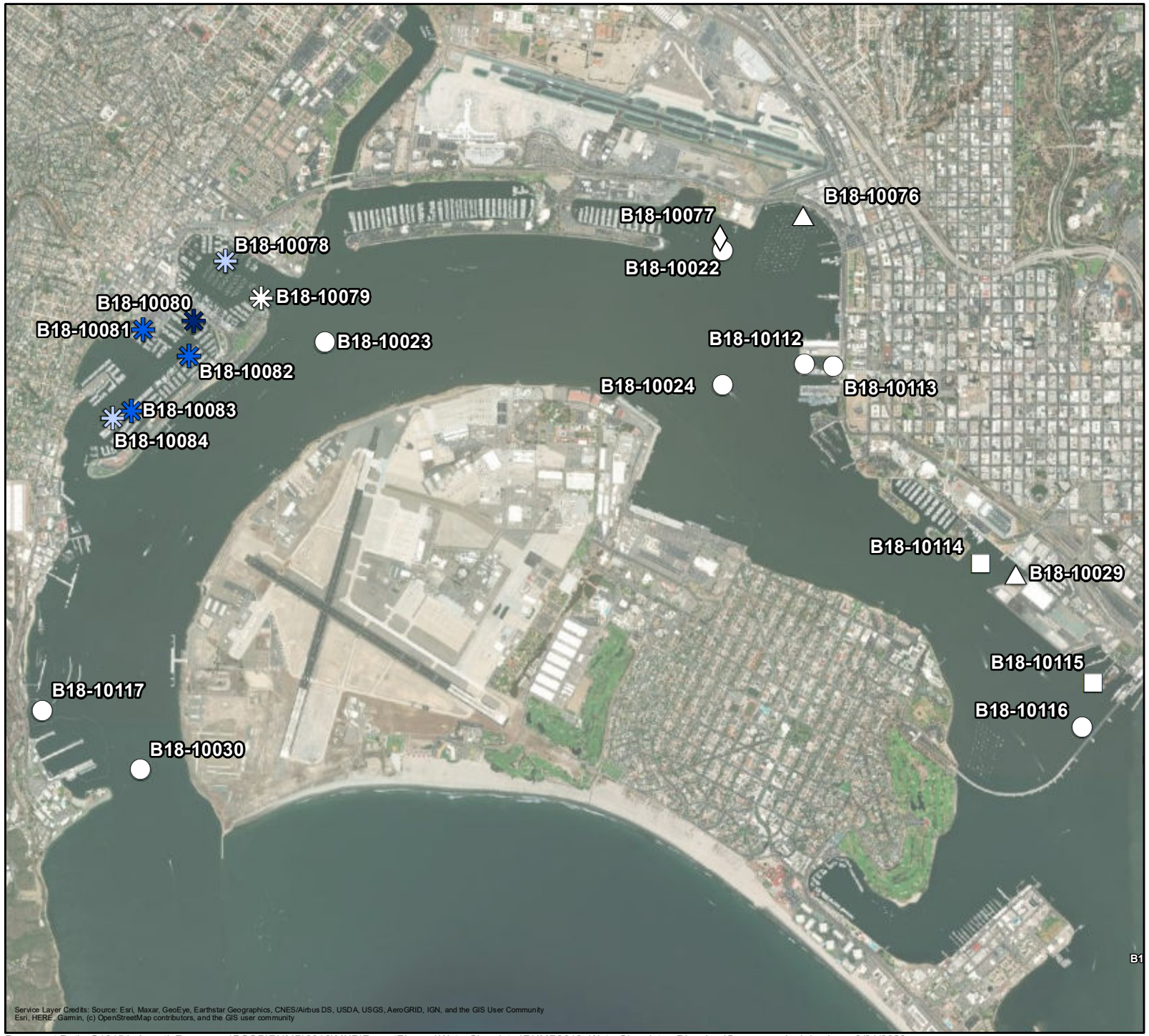
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedCopper.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

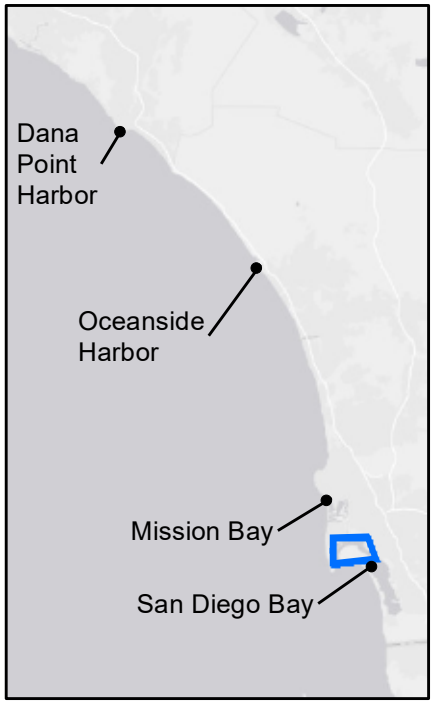
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

Note: Concentrations bins are based on USEPA and CTR water quality criteria.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedCopper.mxd, chris.nixon, 8/24/2020

Central San Diego Bay

2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

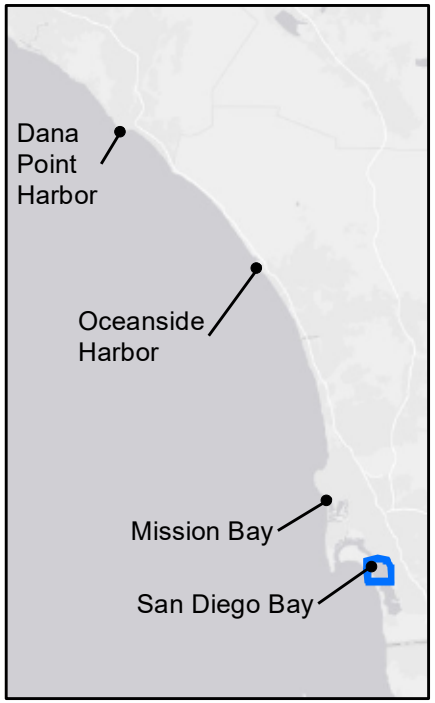
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

Note: Concentrations bins are based on USEPA and CTR water quality criteria.

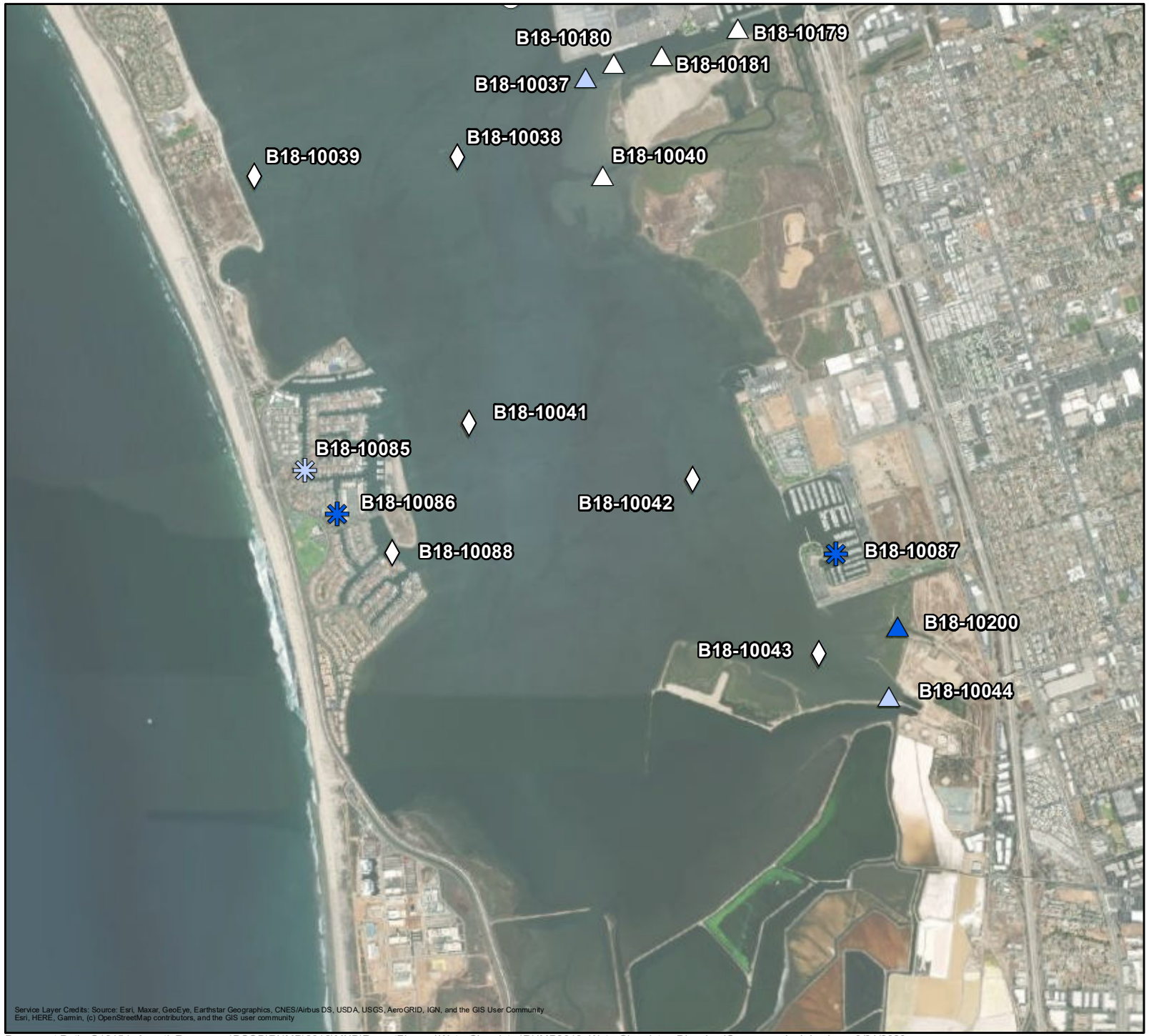
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedCopper.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

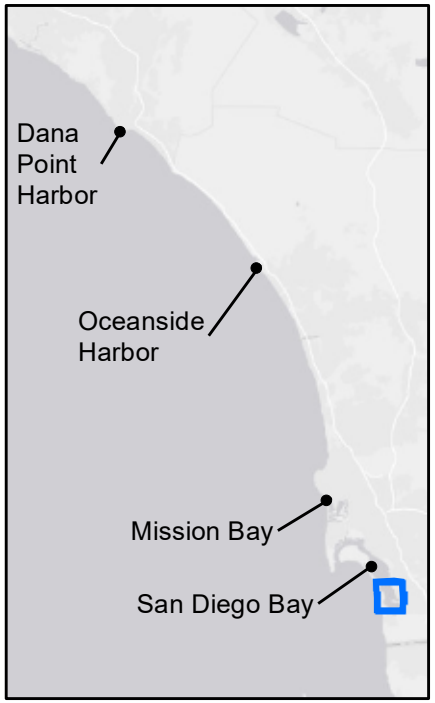
Dissolved Copper (µg/L)

- ≤3.10 (≤CCC)
- >3.10 - ≤4.80 (>CCC - ≤CMC)
- >4.80 - ≤9.60 (>CMC - ≤2X CMC)
- >9.60 (>2X CMC)

Note: Concentrations bins are based on USEPA and CTR water quality criteria.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedCopper.mxd, chris.nixon, 8/24/2020

Dana Point Harbor

2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

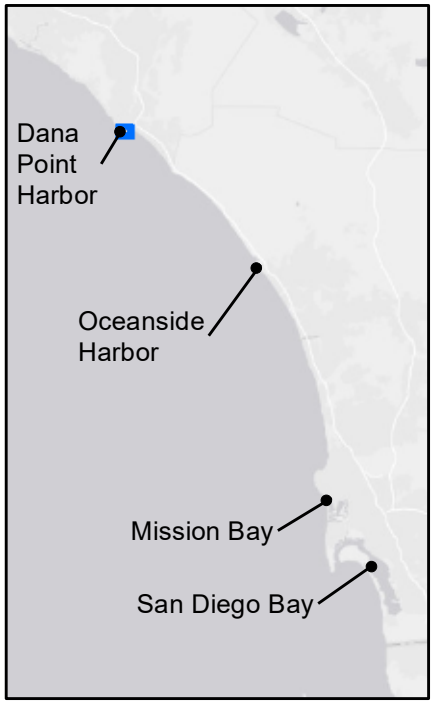
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

Note: Concentration bins are based on equal partitions of the distribution.

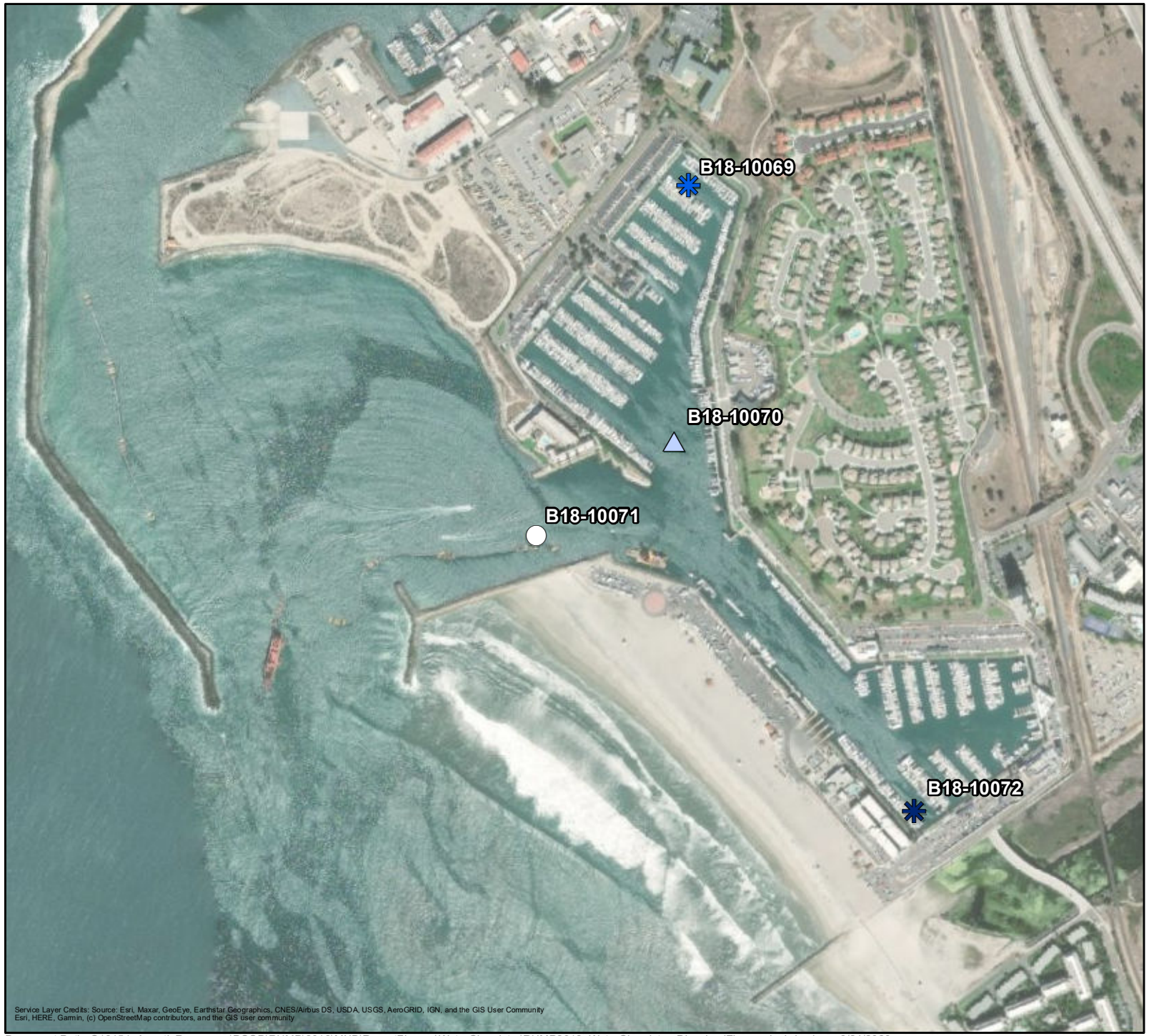
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedZinc.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

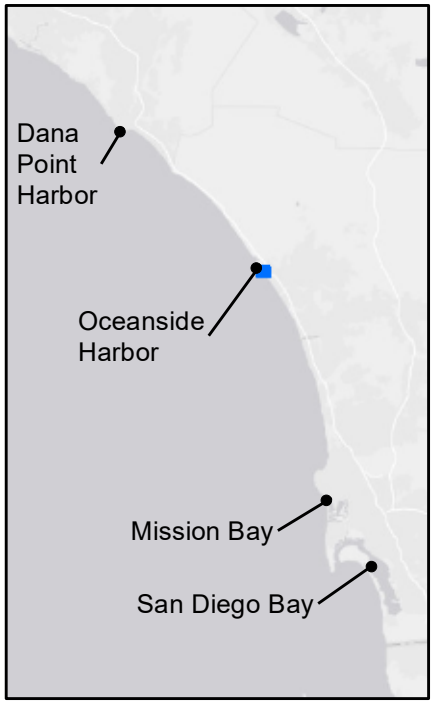
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

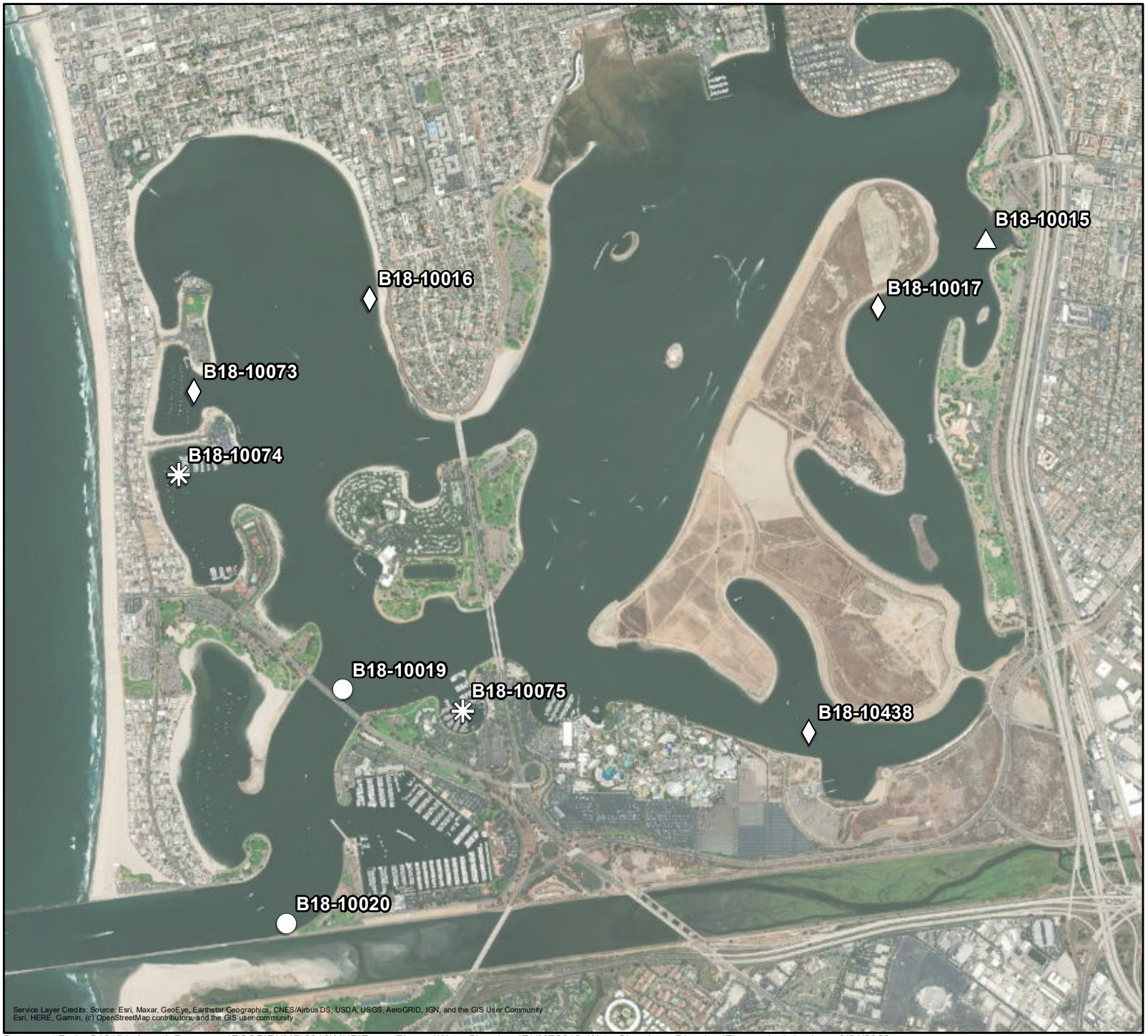
Note: Concentration bins are based on equal partitions of the distribution.

wood.

0 0.15 0.3 km



Mission Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

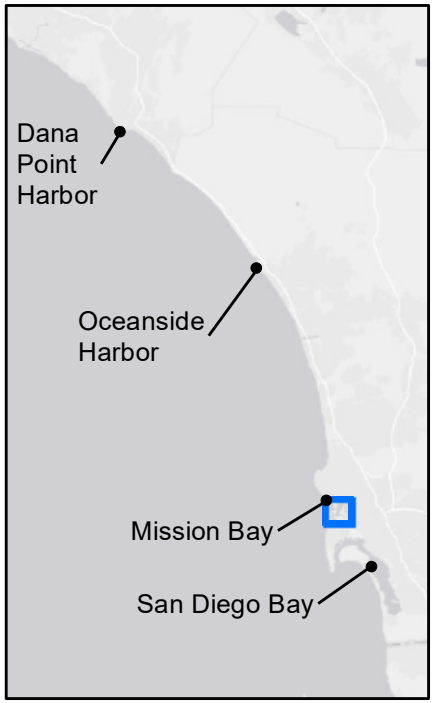
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

Note: Concentration bins are based on equal partitions of the distribution.

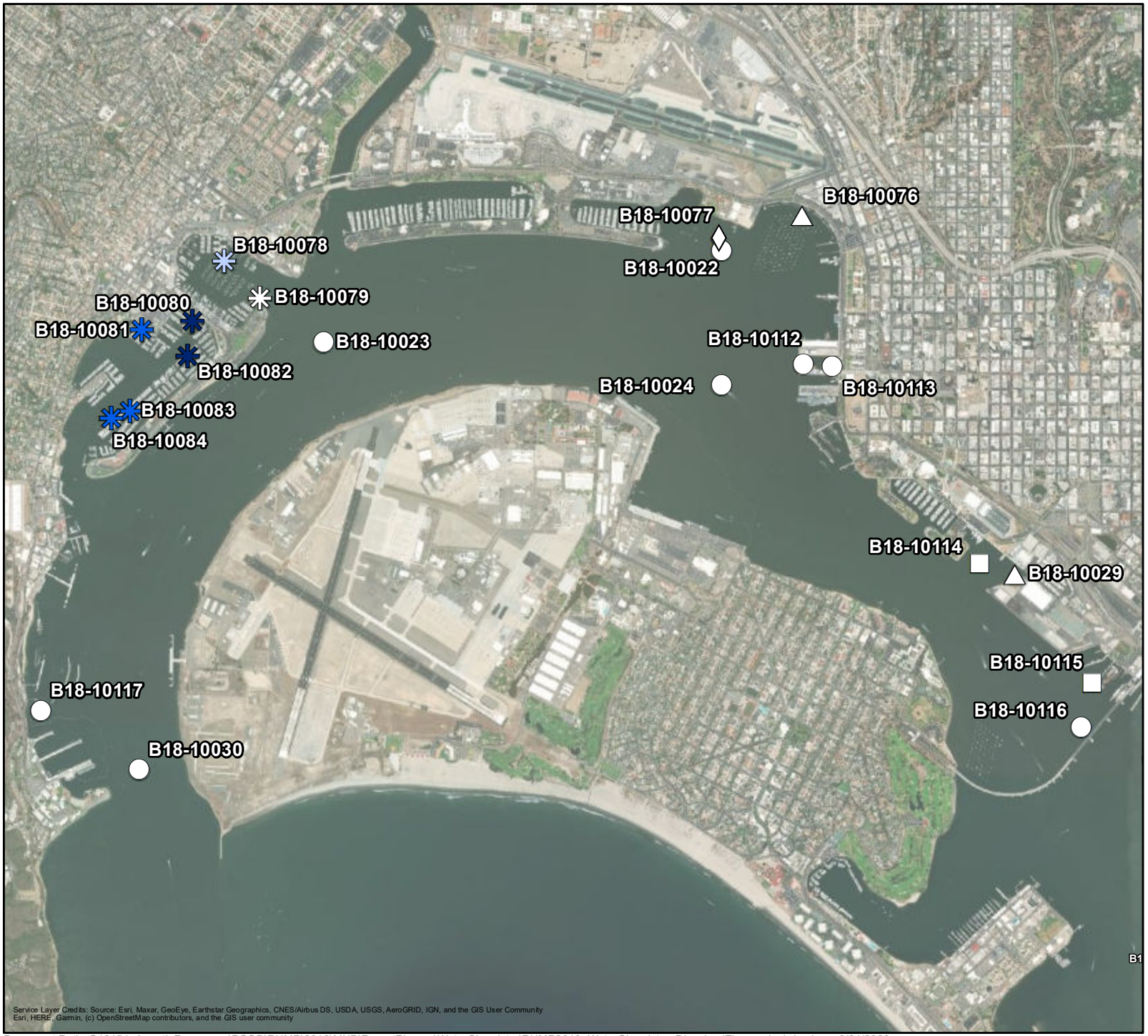
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedZinc.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

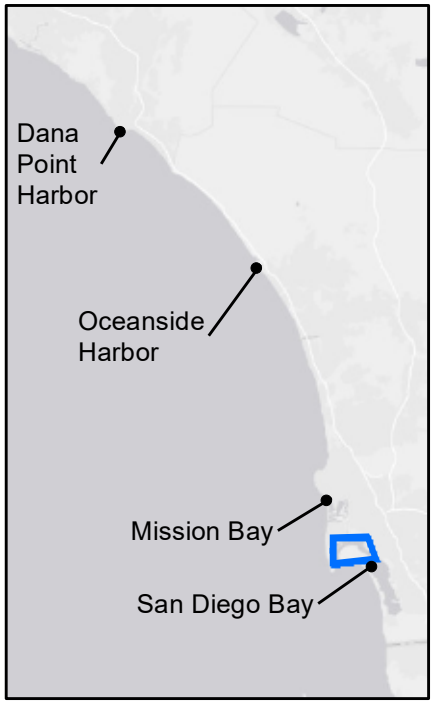
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

Note: Concentration bins are based on equal partitions of the distribution.

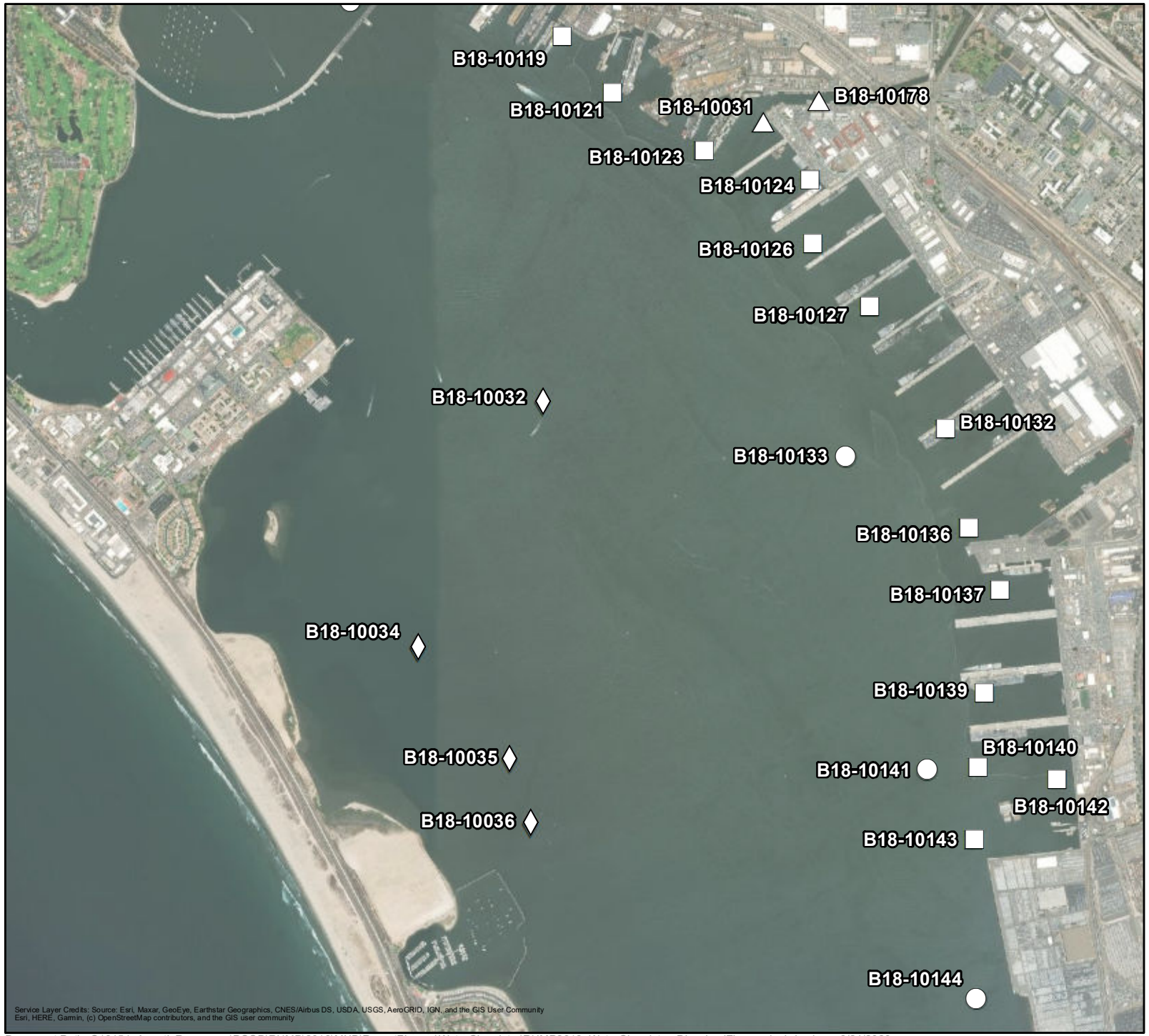
wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedZinc.mxd, chris.nixon, 8/24/2020

Central San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

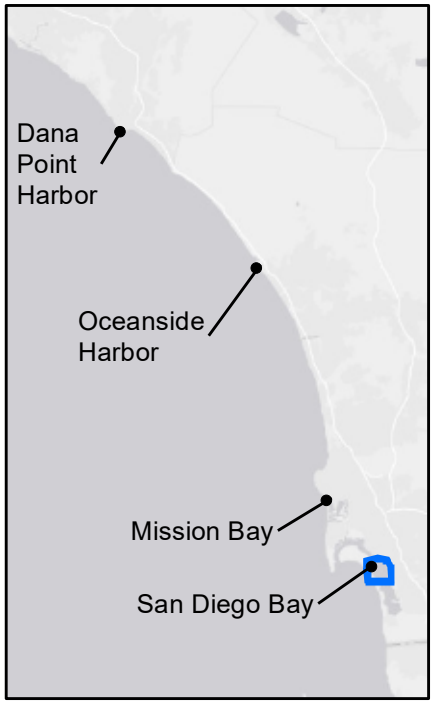
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

Note: Concentration bins are based on equal partitions of the distribution.

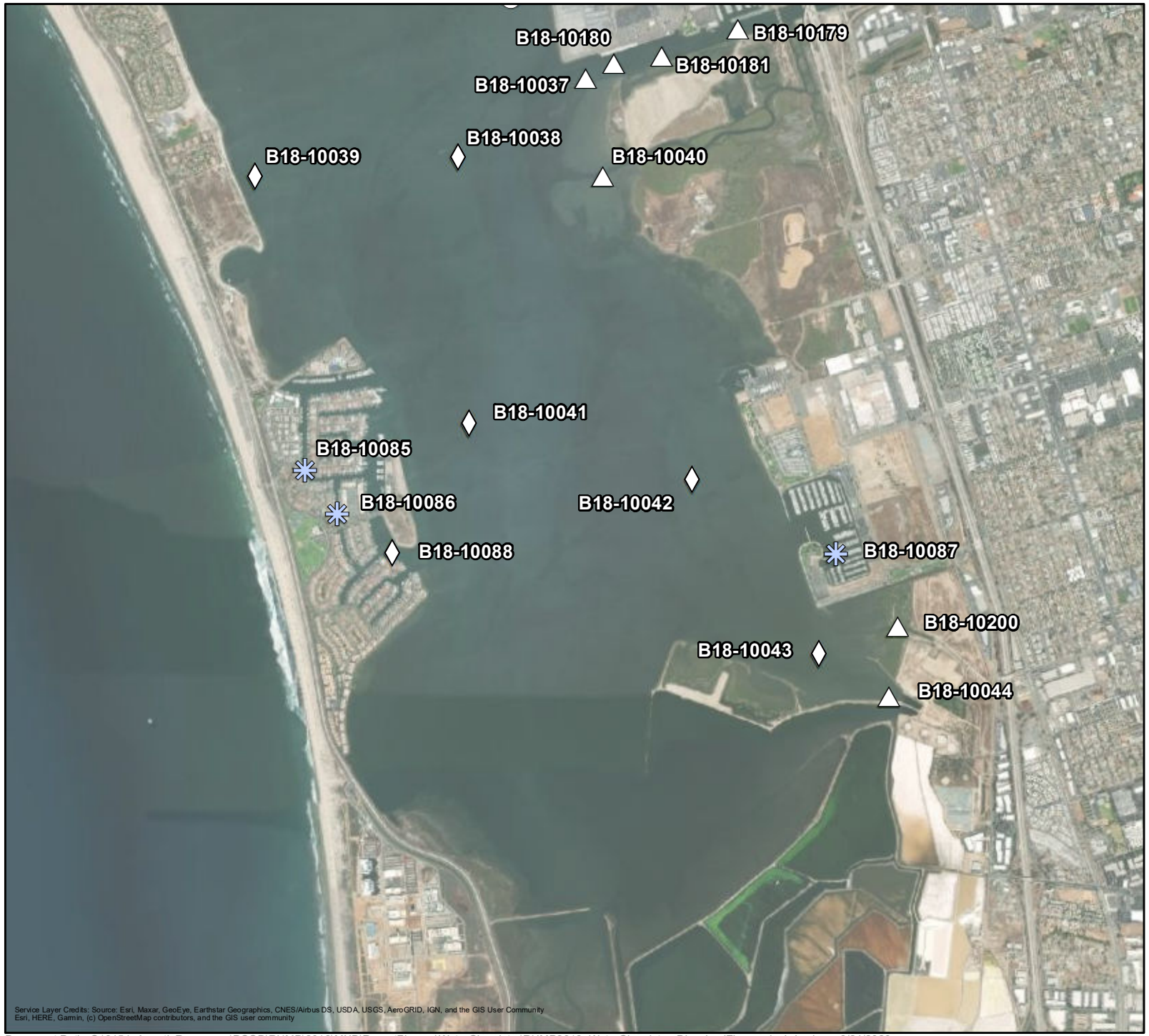
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedZinc.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

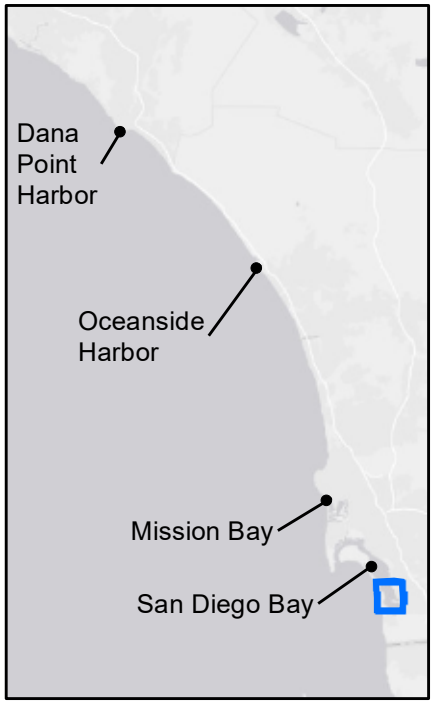
Dissolved Zinc (µg/L)

- 0.495 - 8.80
- 8.81 - 17.1
- 17.1 - 25.4
- 25.5 - 33.7

Note: Concentration bins are based on equal partitions of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_DissolvedZinc.mxd, chris.nixon, 8/24/2020

Dana Point Harbor

2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

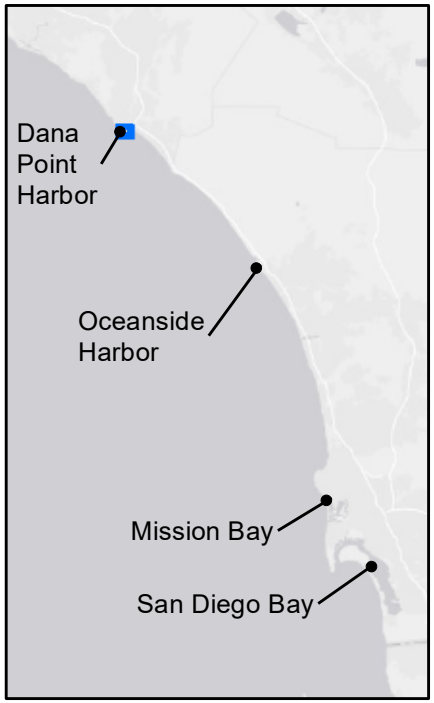
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

Note: Concentration bins are based on equal partitions of the distribution.

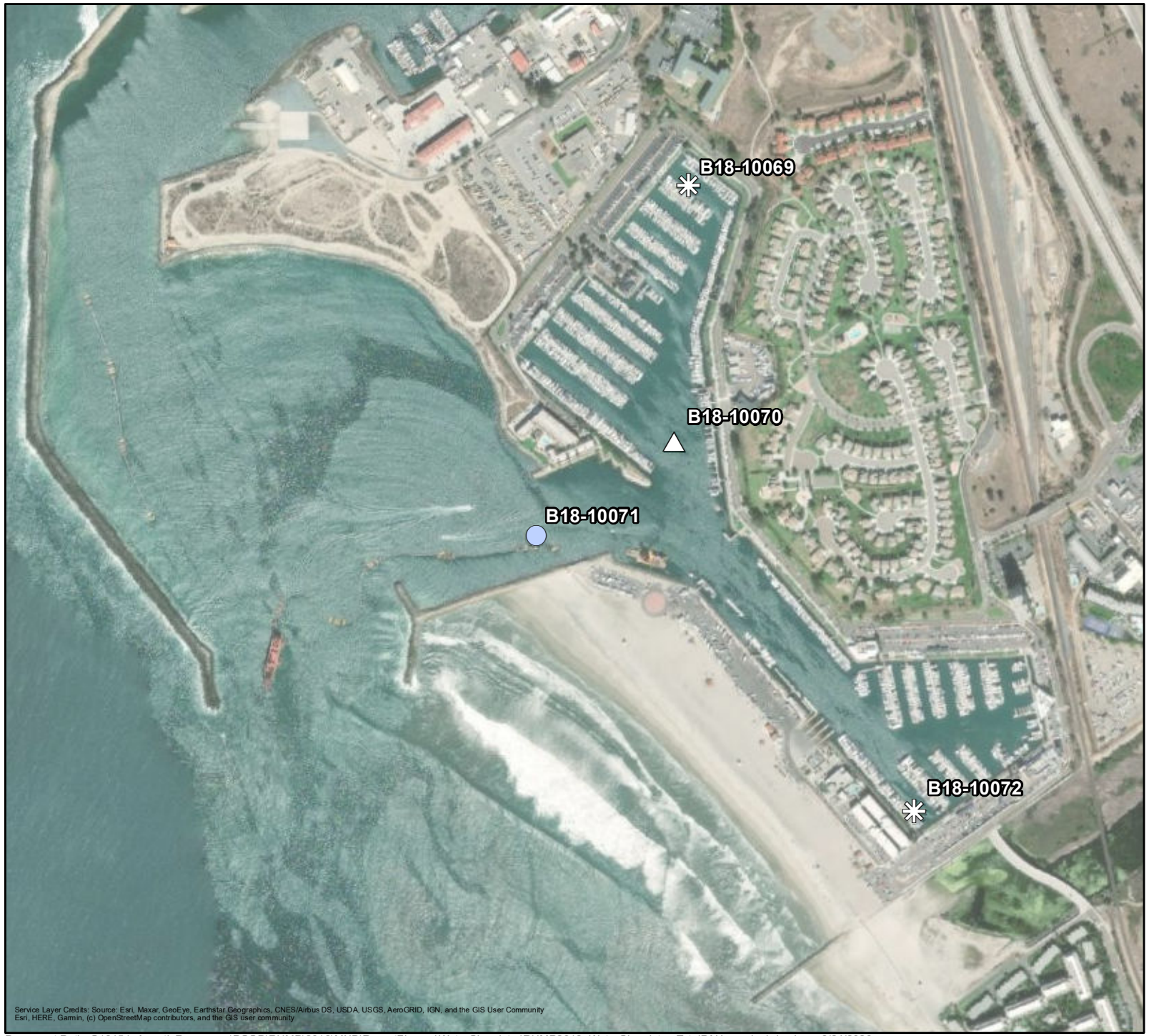
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_TotalPAHs.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

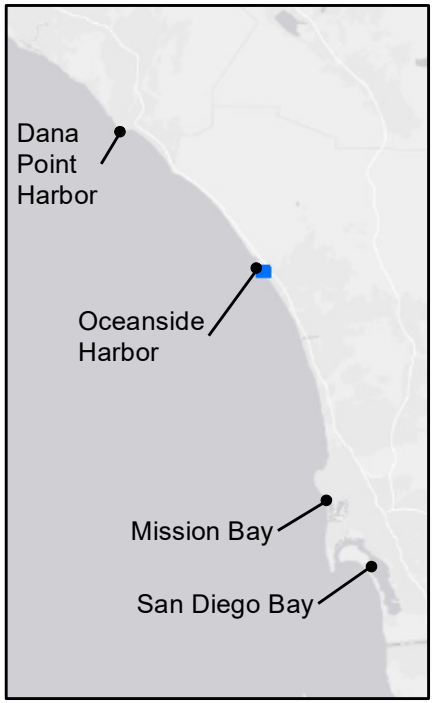
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

Note: Concentration bins are based on equal partitions of the distribution.

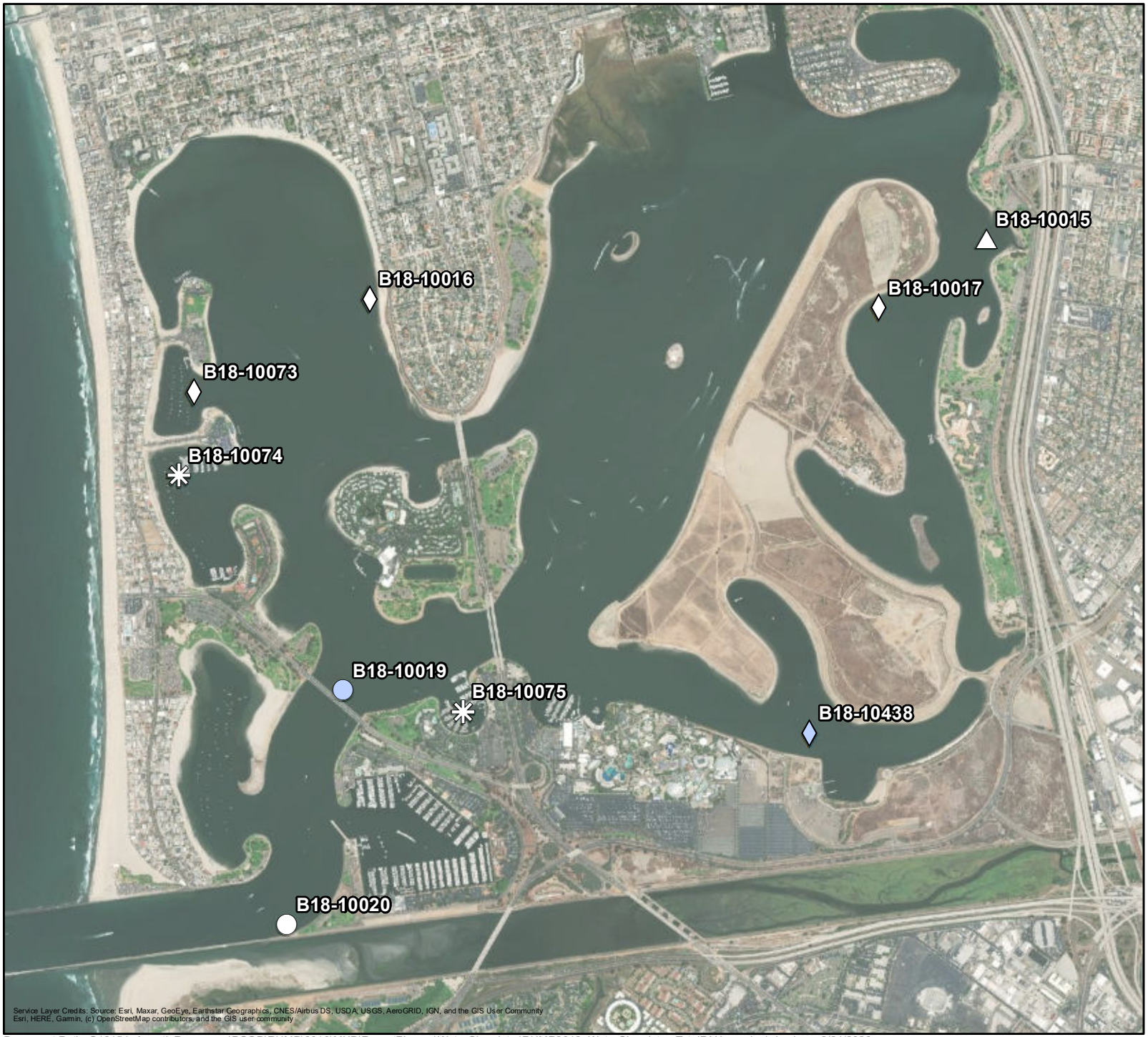
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_TotalPAHs.mxd, chris.nixon, 8/24/2020

Mission Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

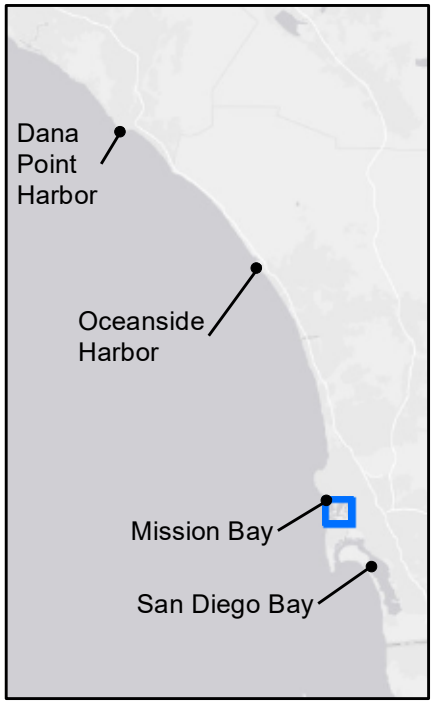
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

Note: Concentration bins are based on equal partitions of the distribution.

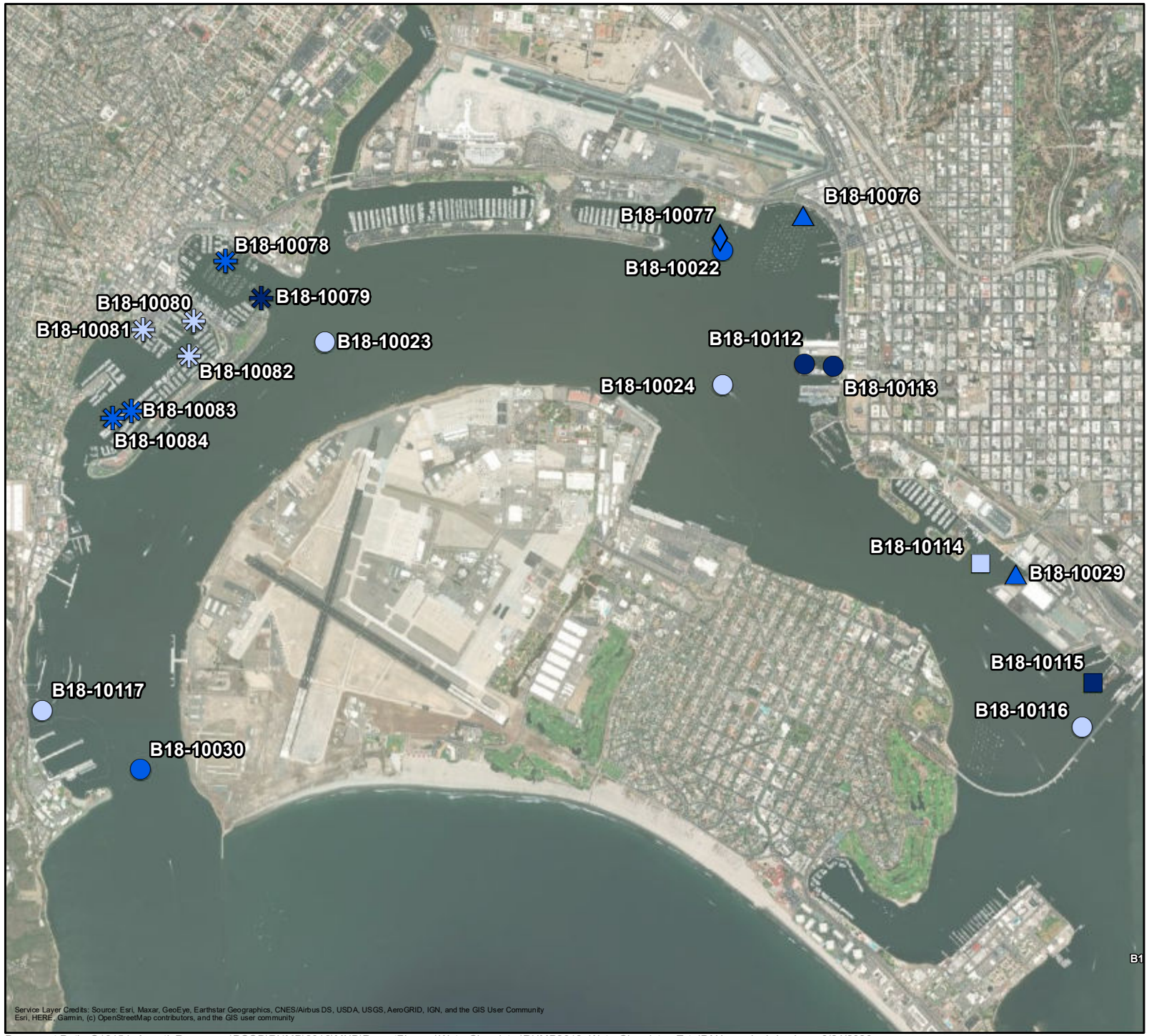
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_TotalPAHs.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

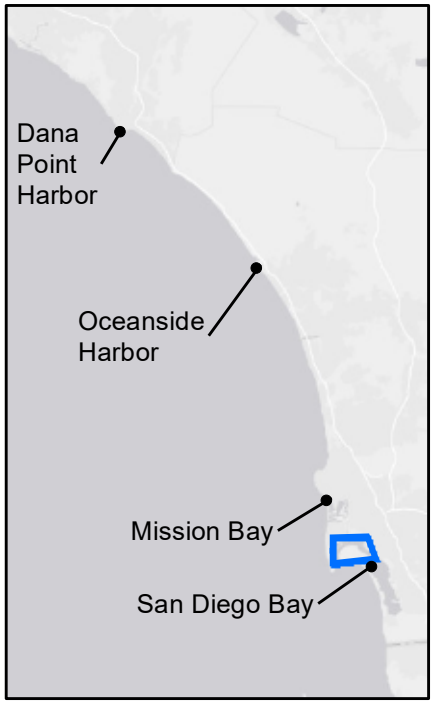
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

Note: Concentration bins are based on equal partitions of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\WaterChemistry\RHMP2018_WaterChemistry_TotalPAHs.mxd, chris.nixon, 8/24/2020

Central San Diego Bay

2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

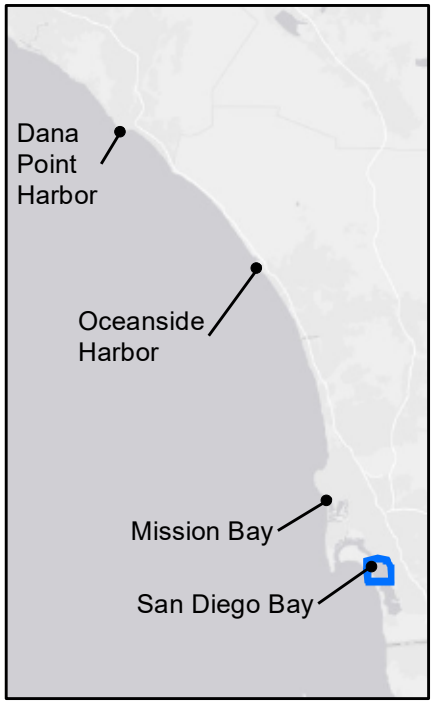
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

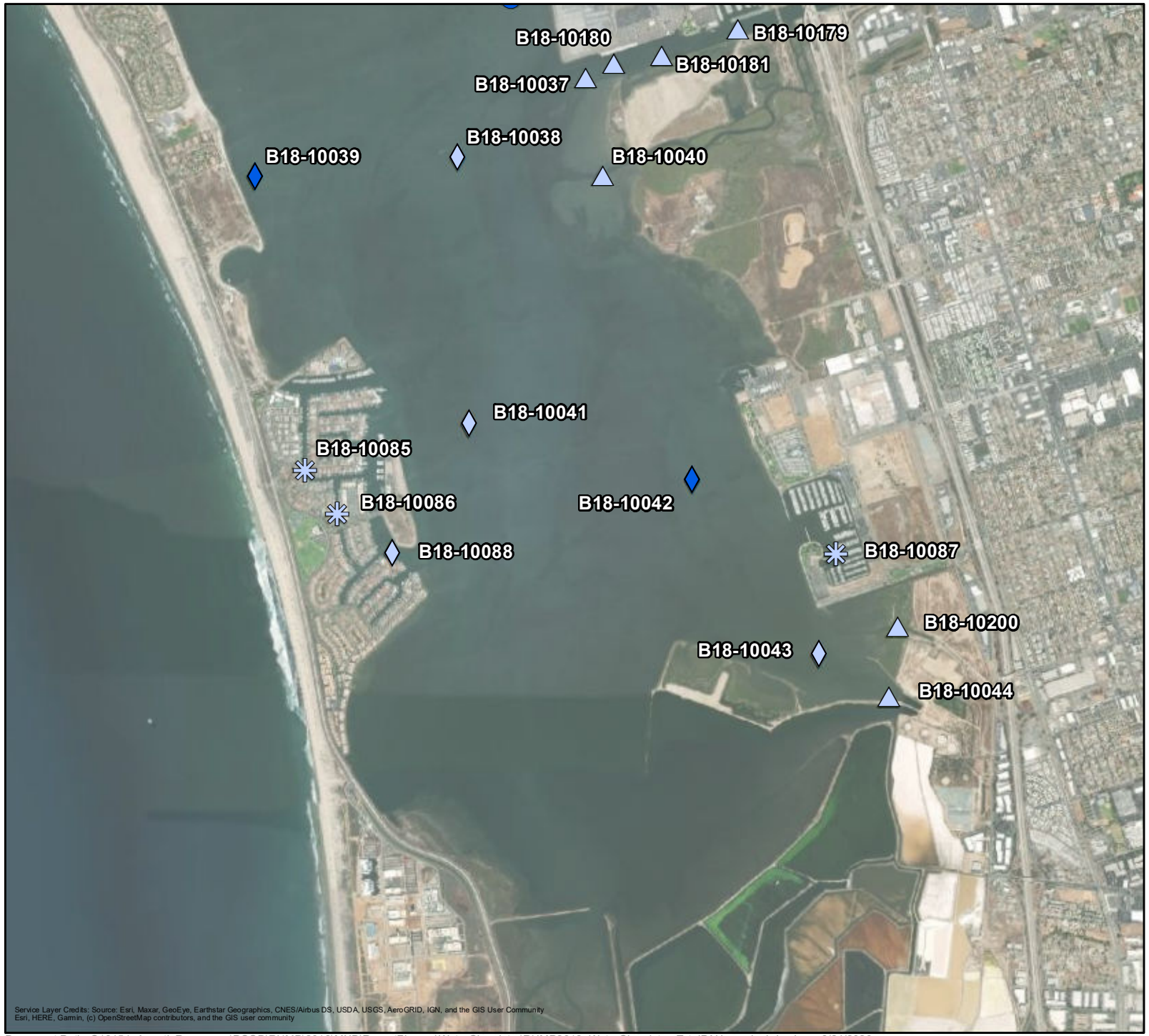
Note: Concentration bins are based on equal partitions of the distribution.

wood.

0 0.5 1 km



South San Diego Bay



2018 RHMP
WATER CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

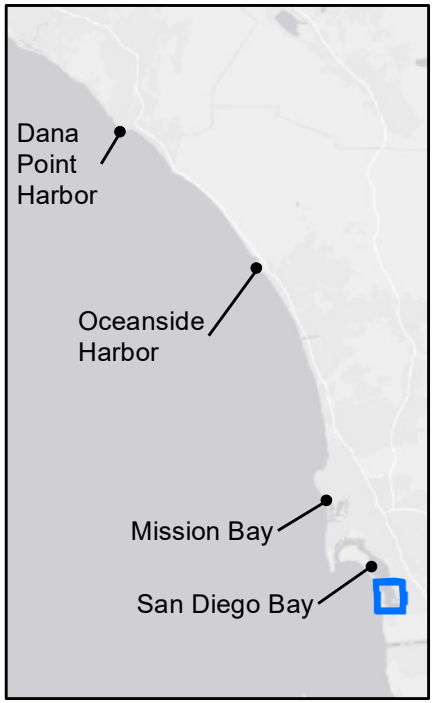
Total PAHs (ng/L)

- ND (<1.00)
- 1.01 - 8.02
- 8.03 - 16.0
- 16.1 - 32.1

Note: Concentration bins are based on equal partitions of the distribution.

wood.

0 0.7 1.4 km



Sediment

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

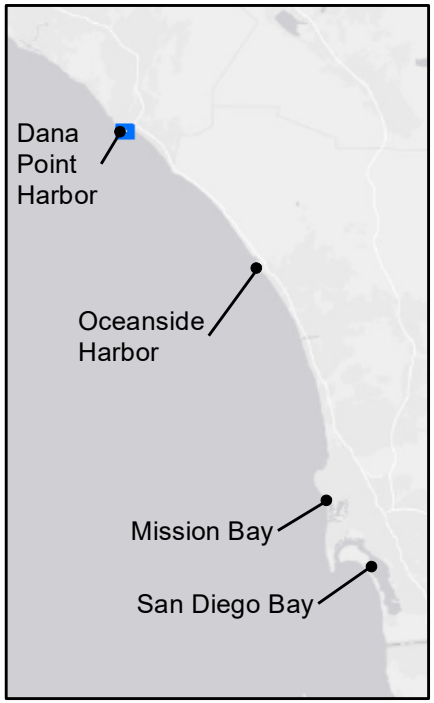
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

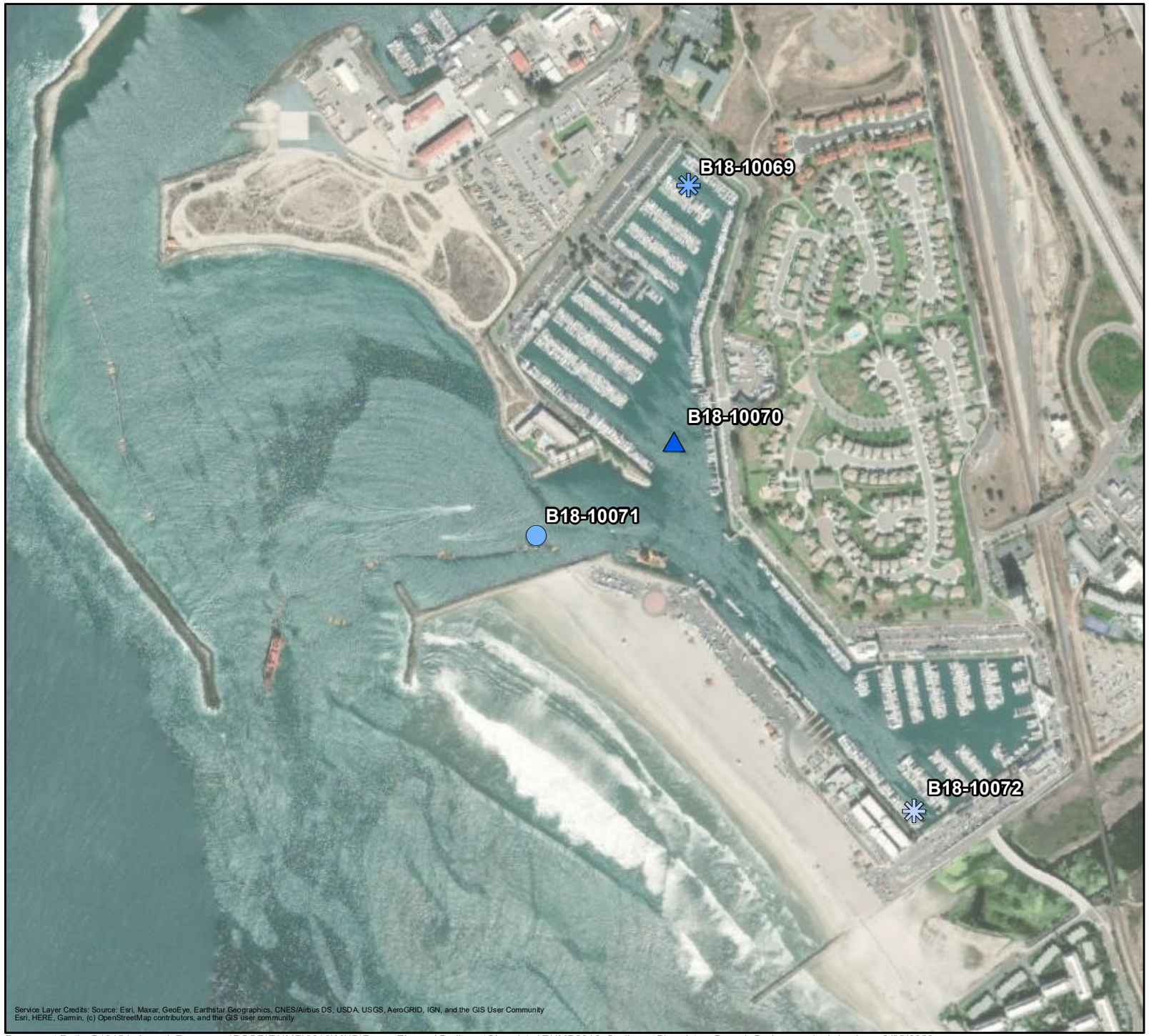
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_OrganicCarbon.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

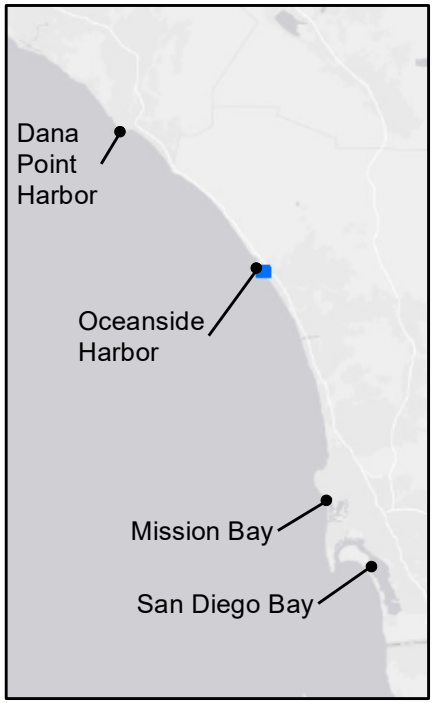
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

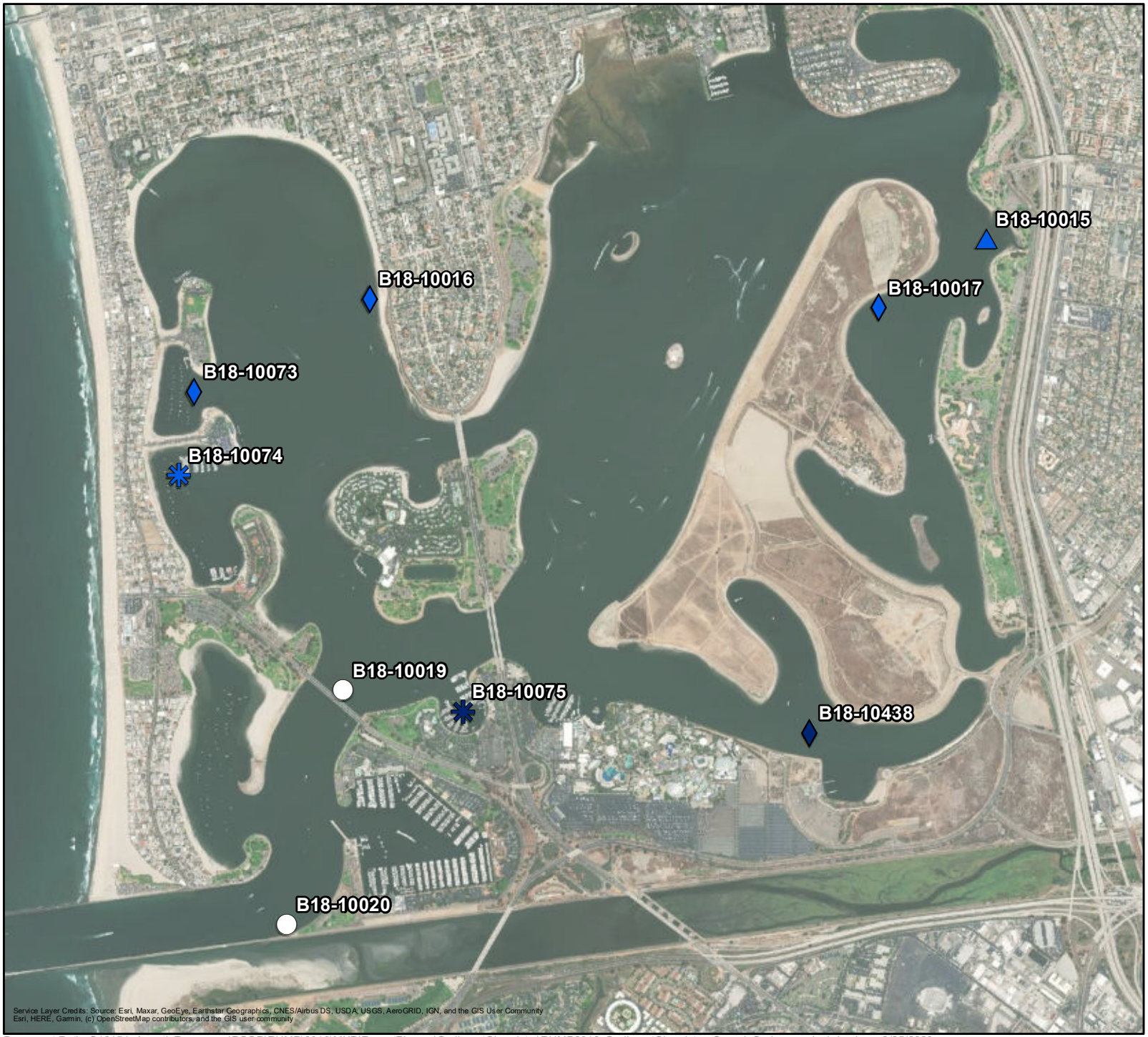
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_OrganicCarbon.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

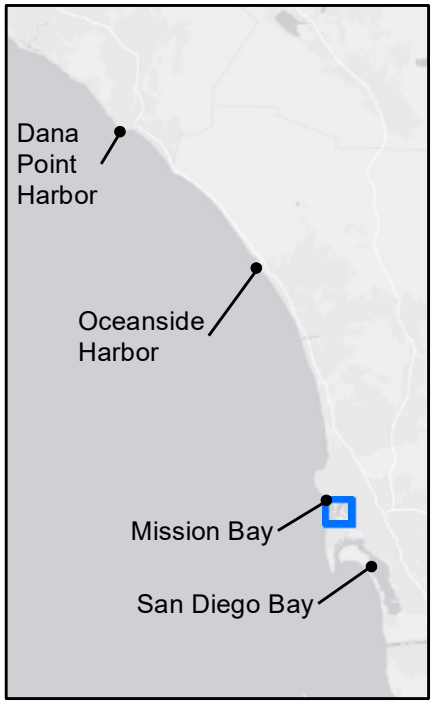
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

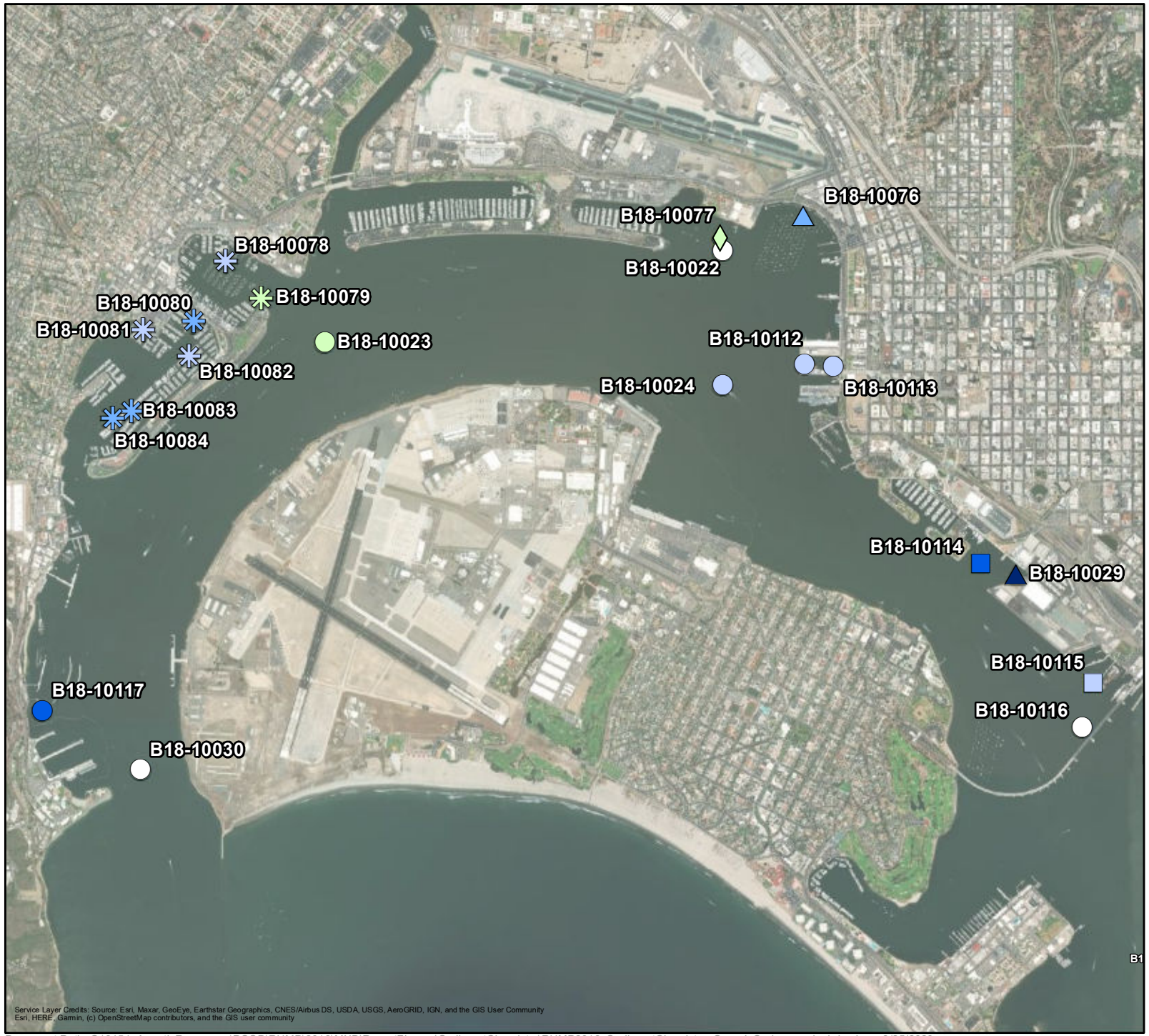
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_OrganicCarbon.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

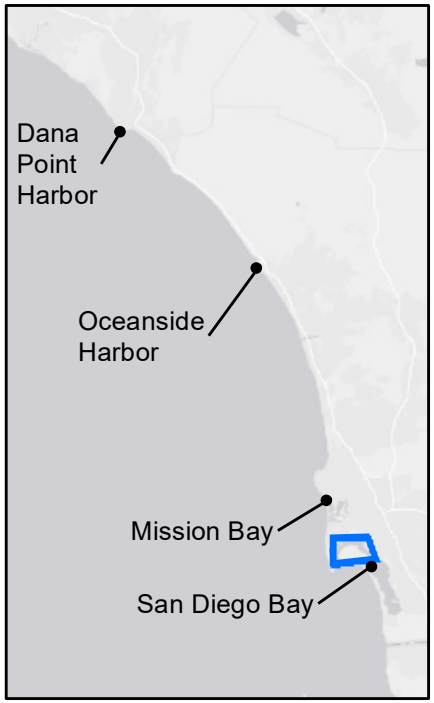
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_OrganicCarbon.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

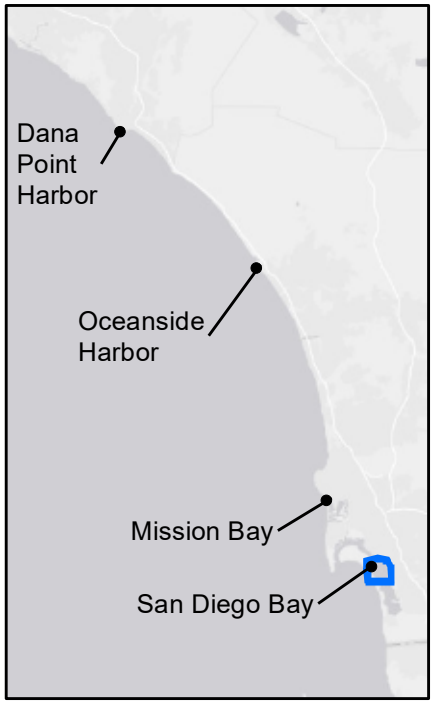
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

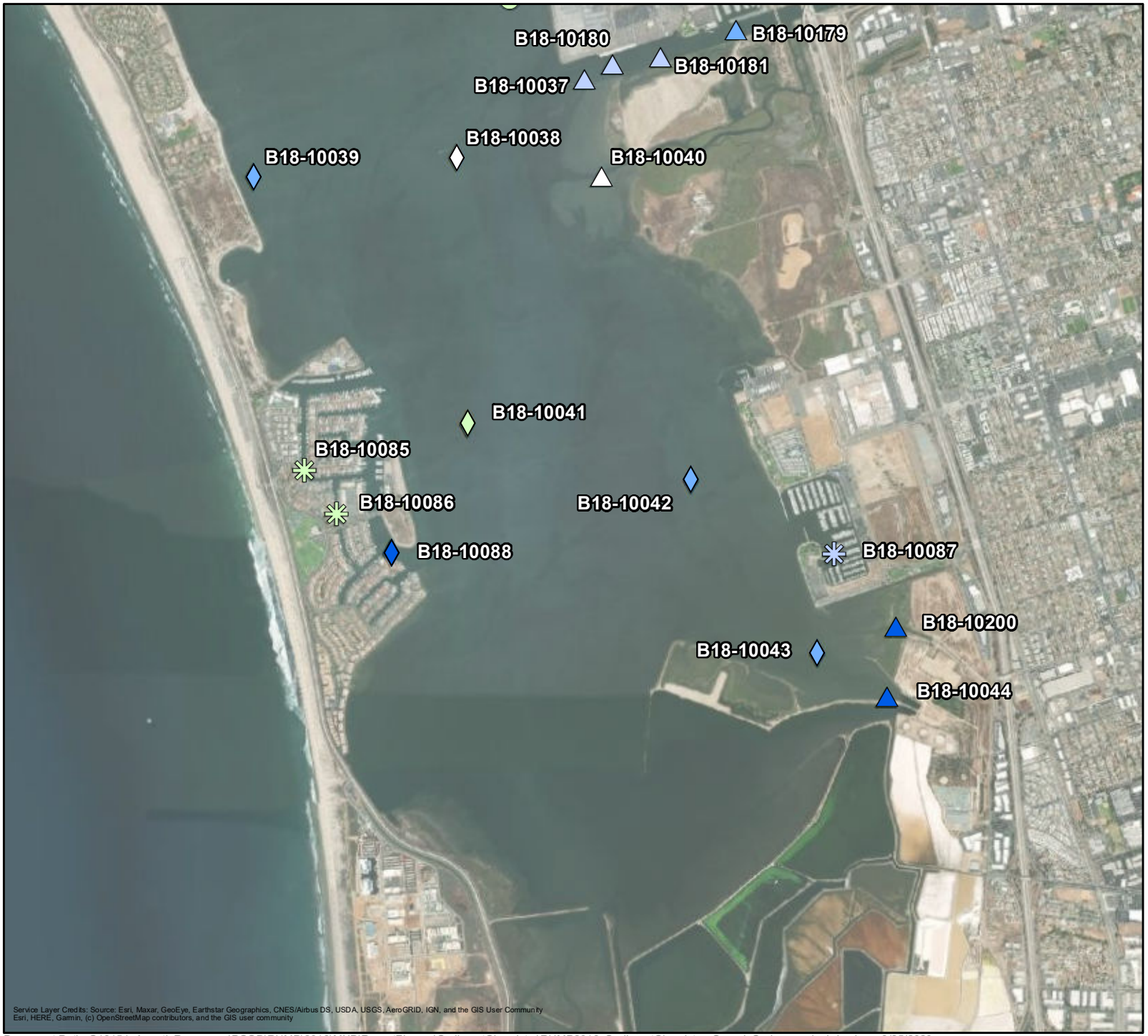
Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.5 1 km



South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

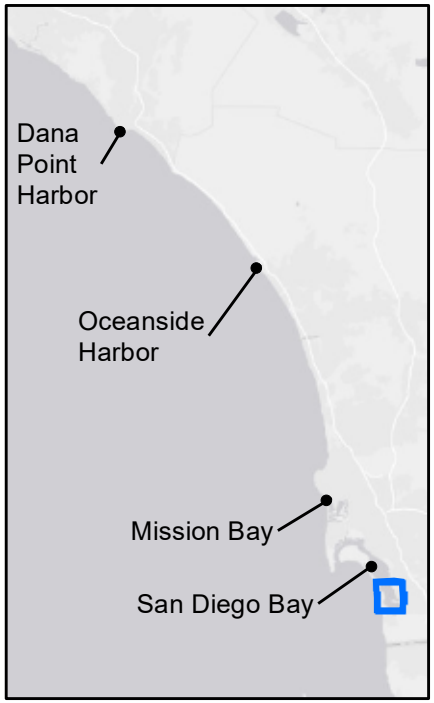
Total Organic Carbon (% dry wt.)

- 0.12 - 0.25
- 0.26 - 0.73
- 0.74 - 1.16
- 1.17 - 1.58
- 1.59 - 2.29
- 2.30 - 3.50

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_OrganicCarbon.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

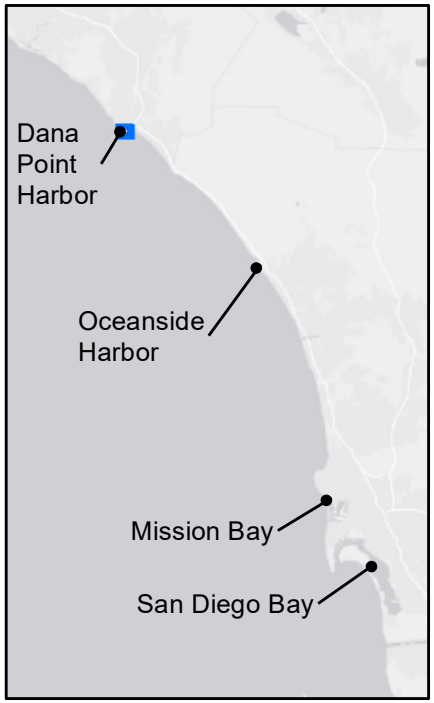
Copper (mg/kg dry wt.)

- 2.08 - 28.5
- 28.6 - 54.2
- 54.3 - 92.8
- 92.9 - 149
- 150 - 254
- 255 - 664

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

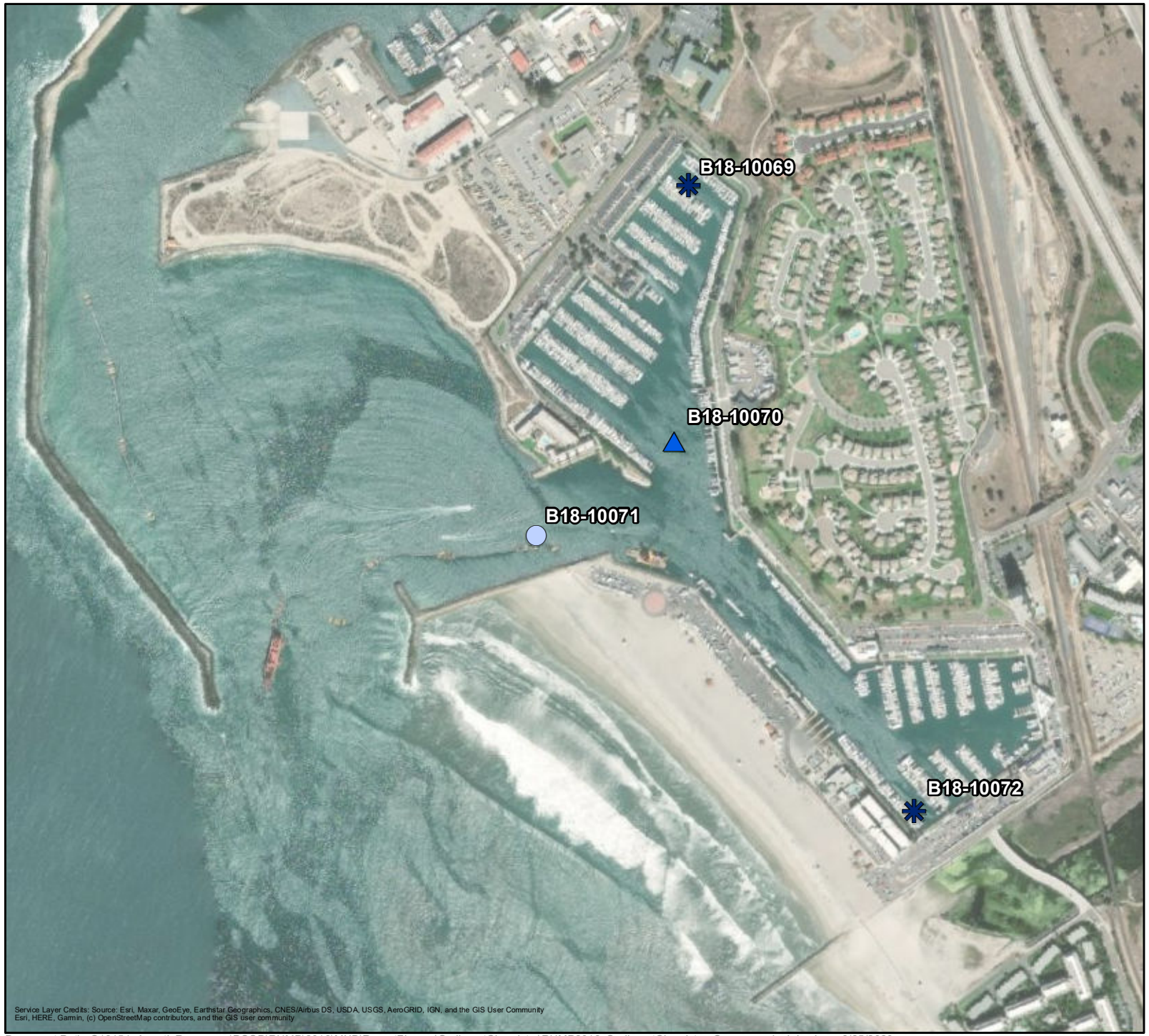
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Copper.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

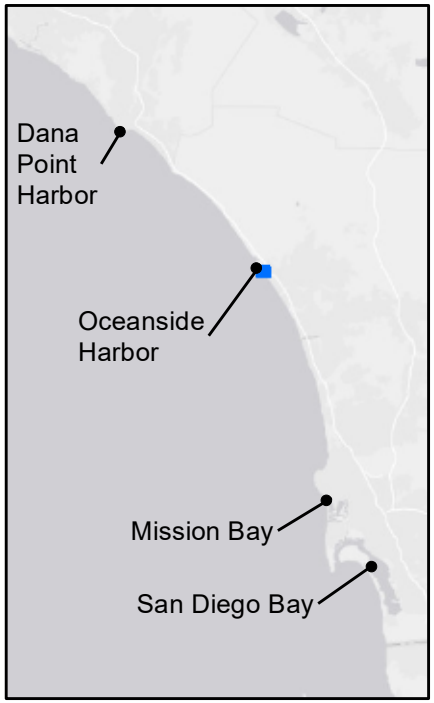
Copper (mg/kg dry wt.)

- 2.08 - 28.5
- 28.6 - 54.2
- 54.3 - 92.8
- 92.9 - 149
- 150 - 254
- 255 - 664

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

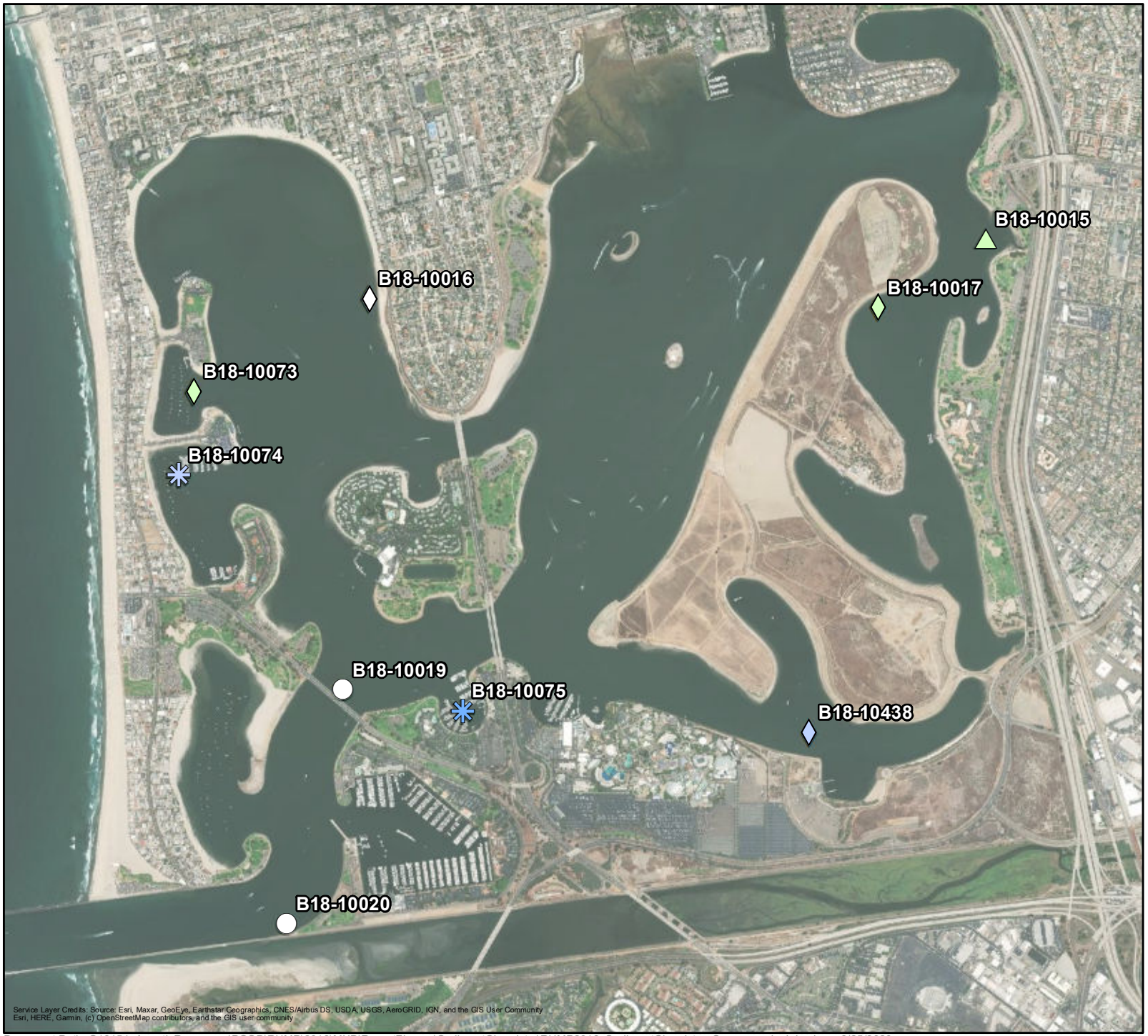
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Copper.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

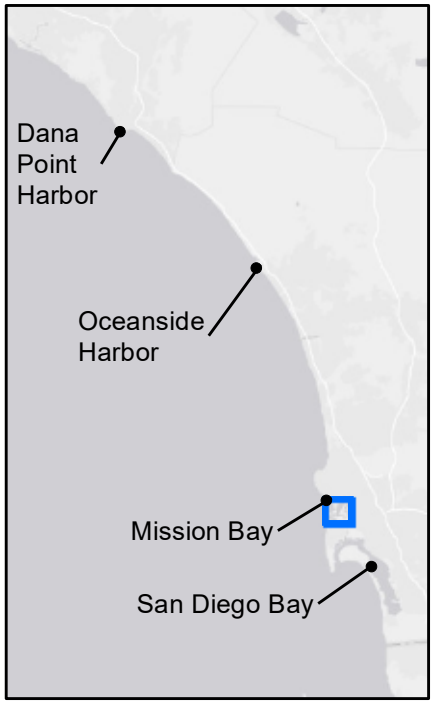
Copper (mg/kg dry wt.)

- 2.08 - 28.5
- 28.6 - 54.2
- 54.3 - 92.8
- 92.9 - 149
- 150 - 254
- 255 - 664

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

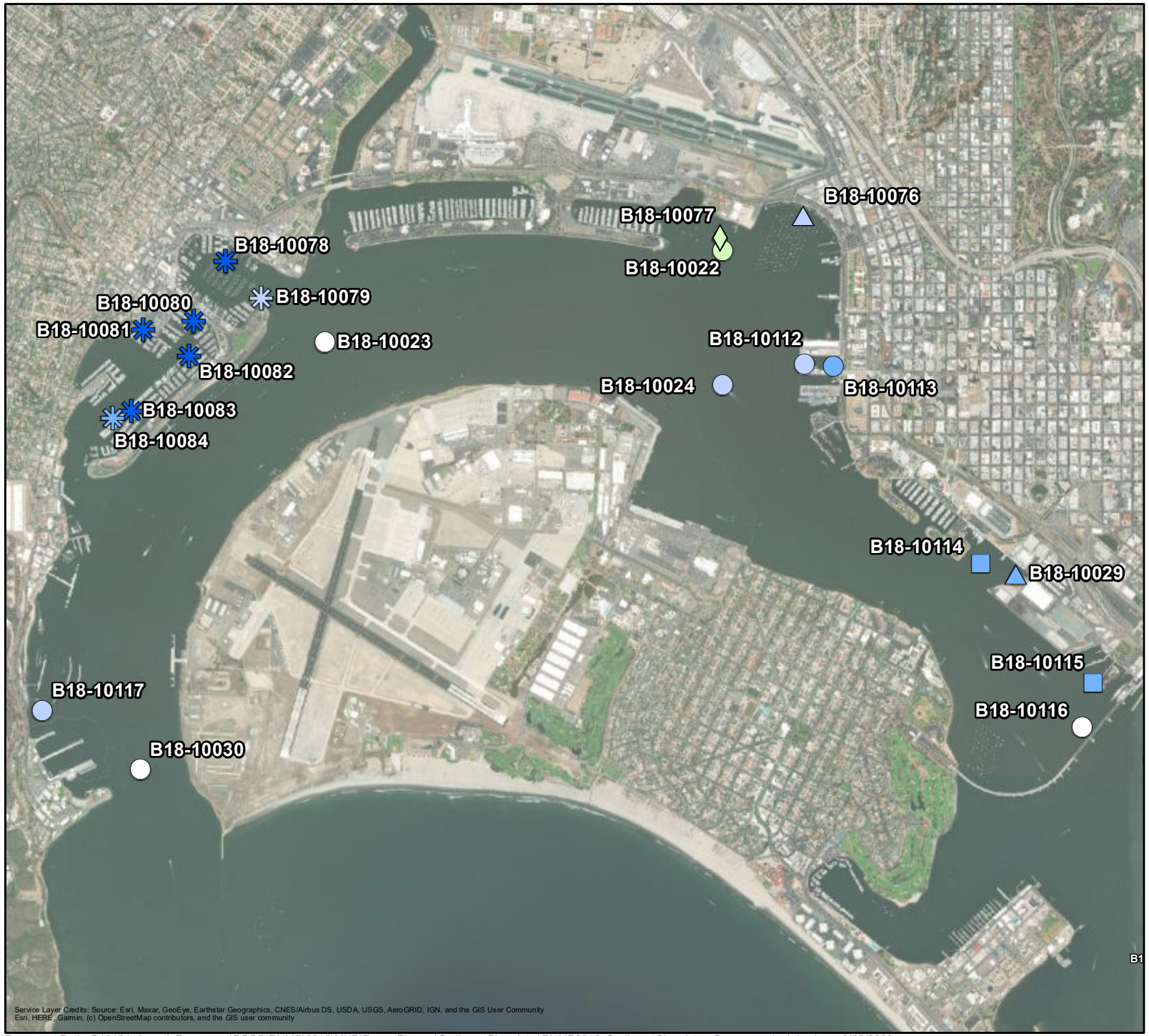
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Copper.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

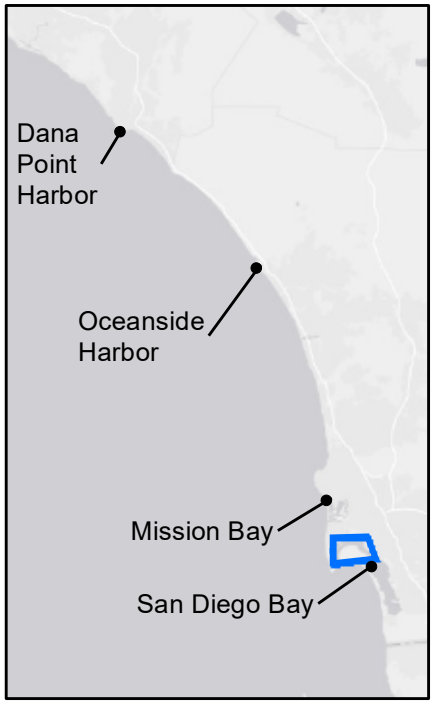
Copper (mg/kg dry wt.)

- 2.08 - 28.5
- 28.6 - 54.2
- 54.3 - 92.8
- 92.9 - 149
- 150 - 254
- 255 - 664

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Copper.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

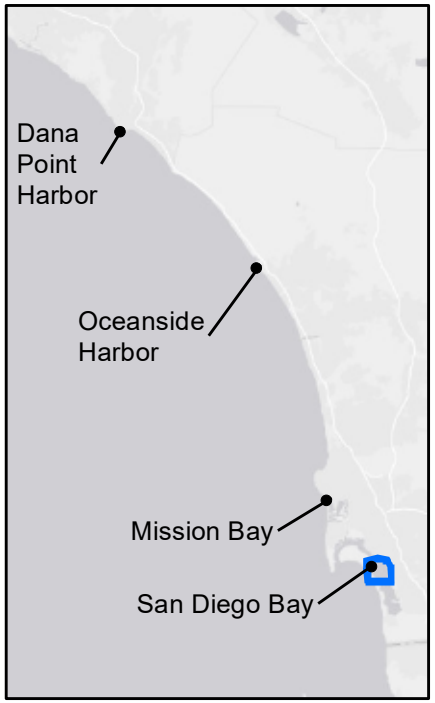
Copper (mg/kg dry wt.)

- 2.08 - 28.5
- 28.6 - 54.2
- 54.3 - 92.8
- 92.9 - 149
- 150 - 254
- 255 - 664

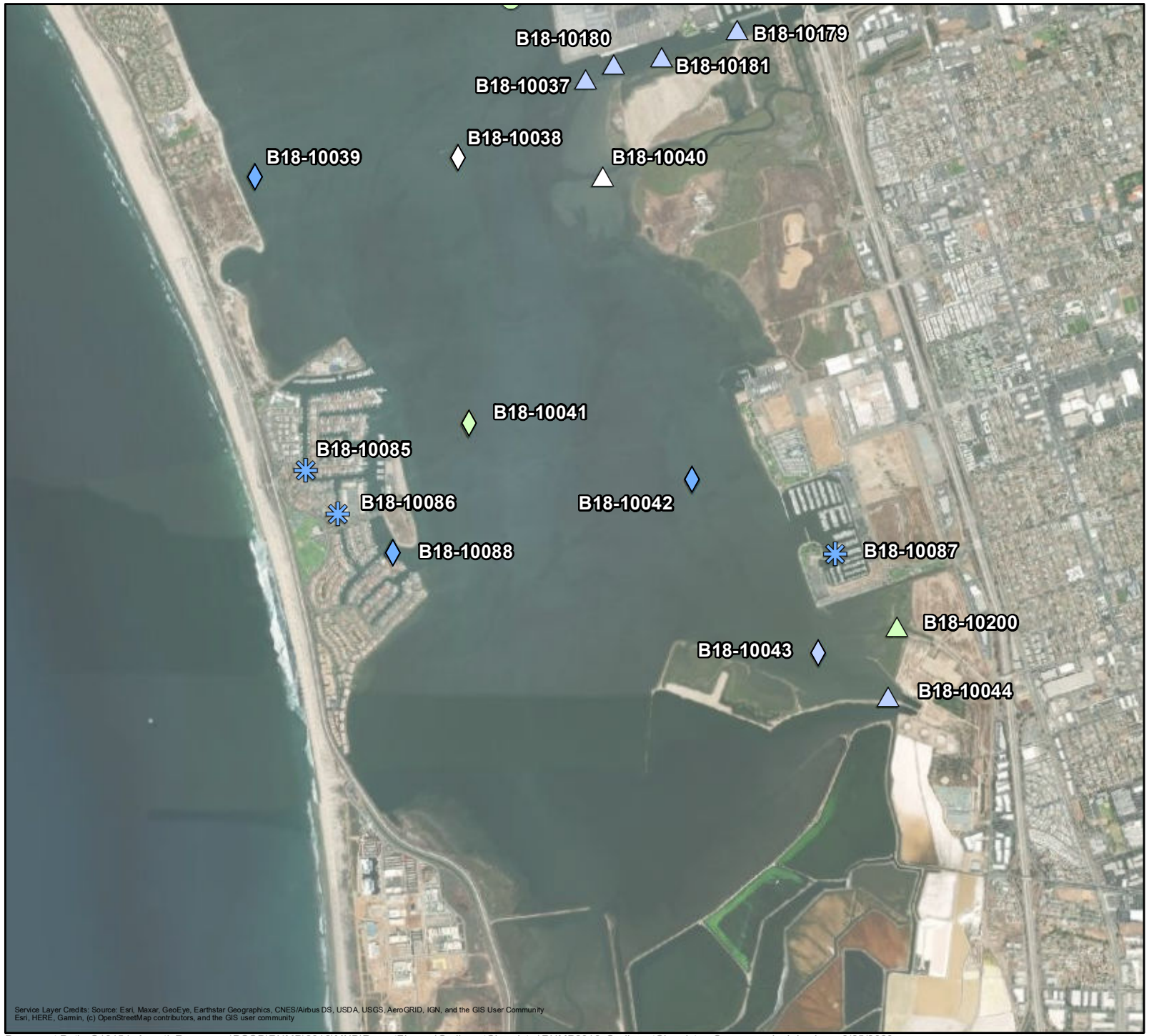
Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.5 1 km



South San Diego Bay



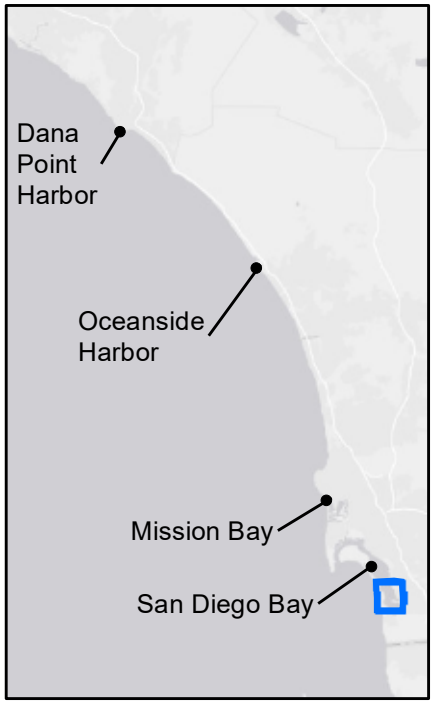
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Copper (mg/kg dry wt.)
Deep	2.08 - 28.5
Freshwater-Influenced	28.6 - 54.2
Industrial/ Port	54.3 - 92.8
Marina	92.9 - 149
Shallow	150 - 254
	255 - 664

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Copper.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

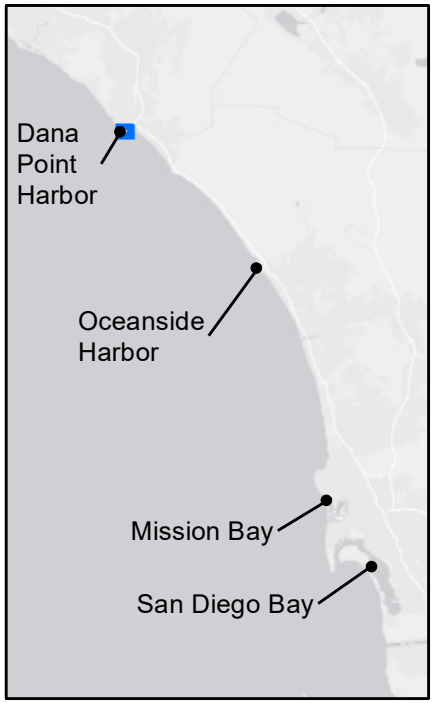
Lead (mg/kg dry wt.)

- 1.75 - 8.21
- 8.22 - 14.1
- 14.2 - 24.4
- 24.5 - 35.1
- 35.2 - 52.5
- 52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

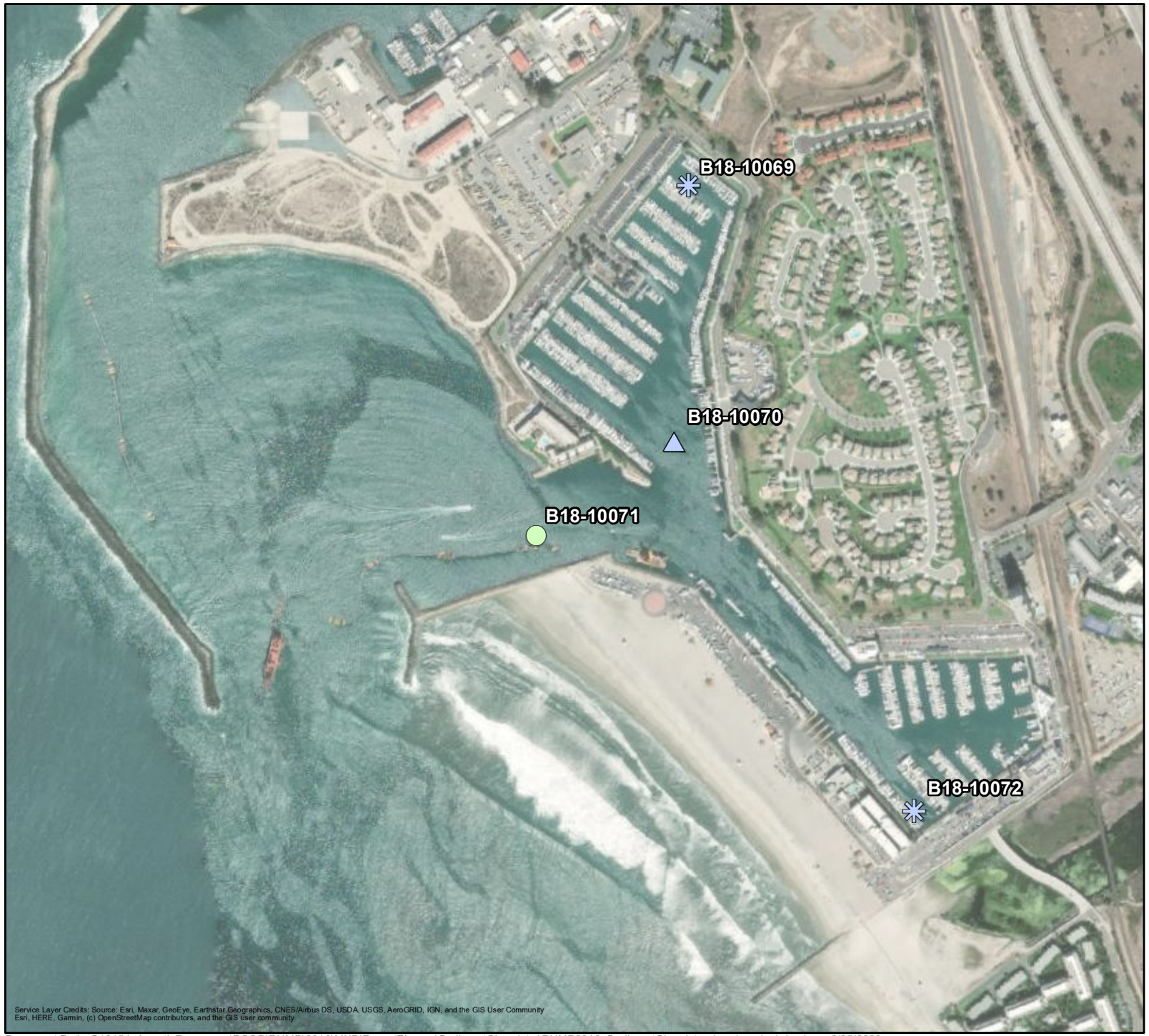
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



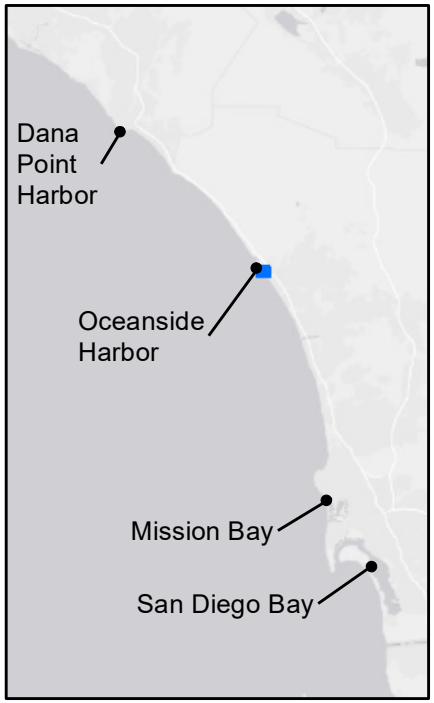
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Lead (mg/kg dry wt.)
Deep	1.75 - 8.21
Freshwater-Influenced	8.22 - 14.1
Industrial/ Port	14.2 - 24.4
Marina	24.5 - 35.1
Shallow	35.2 - 52.5
	52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

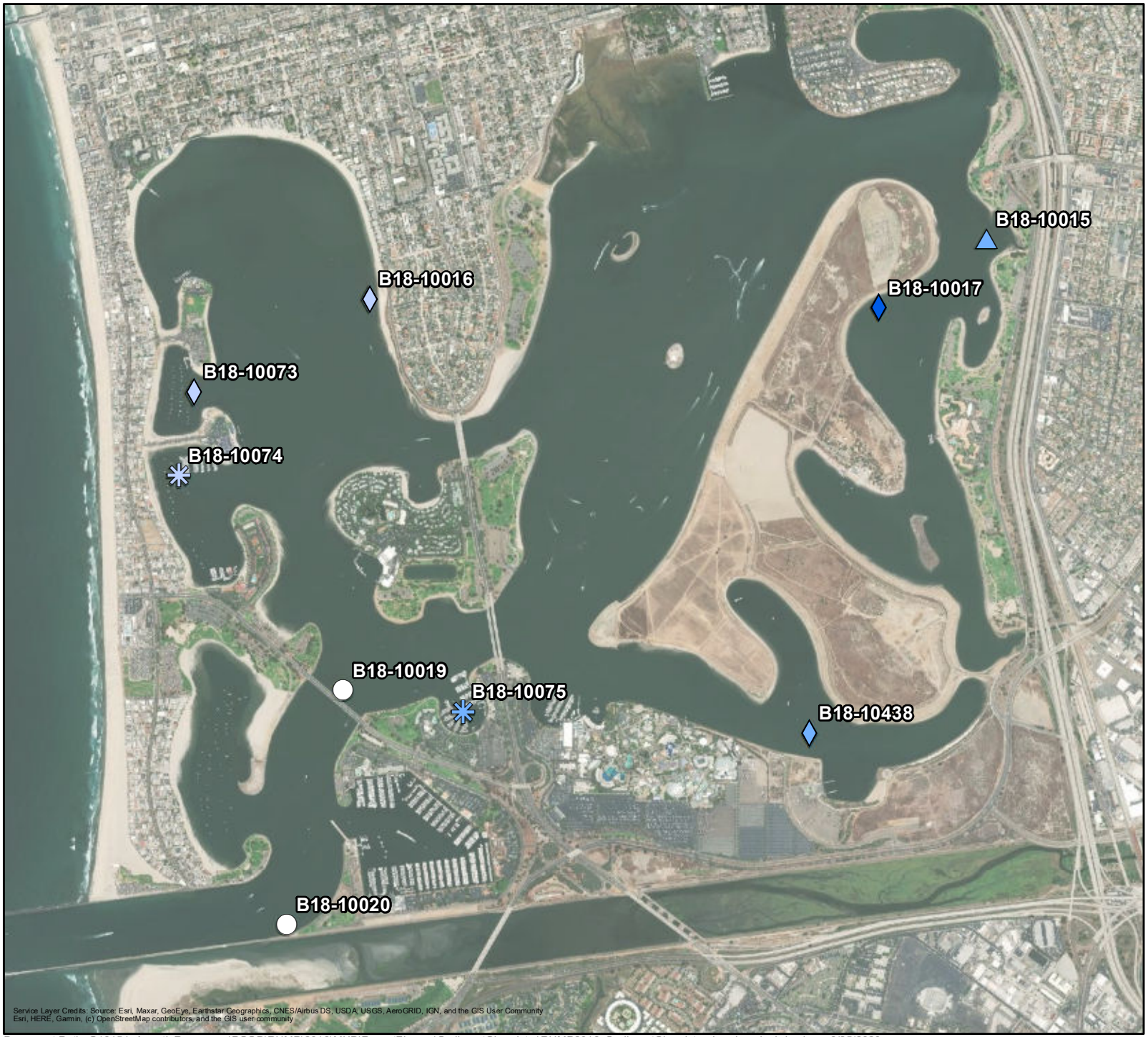
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

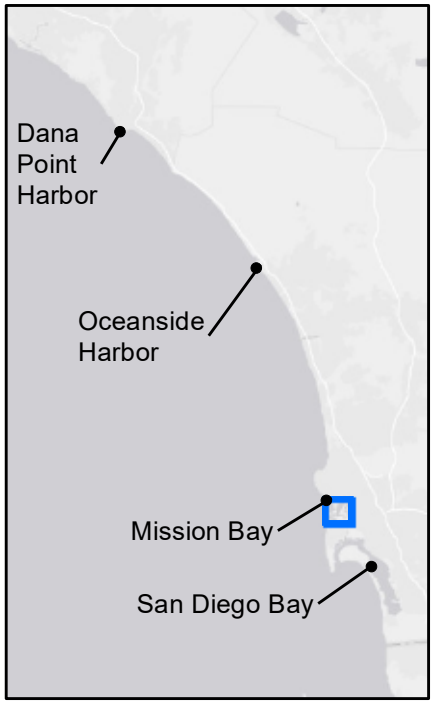
Lead (mg/kg dry wt.)

- 1.75 - 8.21
- 8.22 - 14.1
- 14.2 - 24.4
- 24.5 - 35.1
- 35.2 - 52.5
- 52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

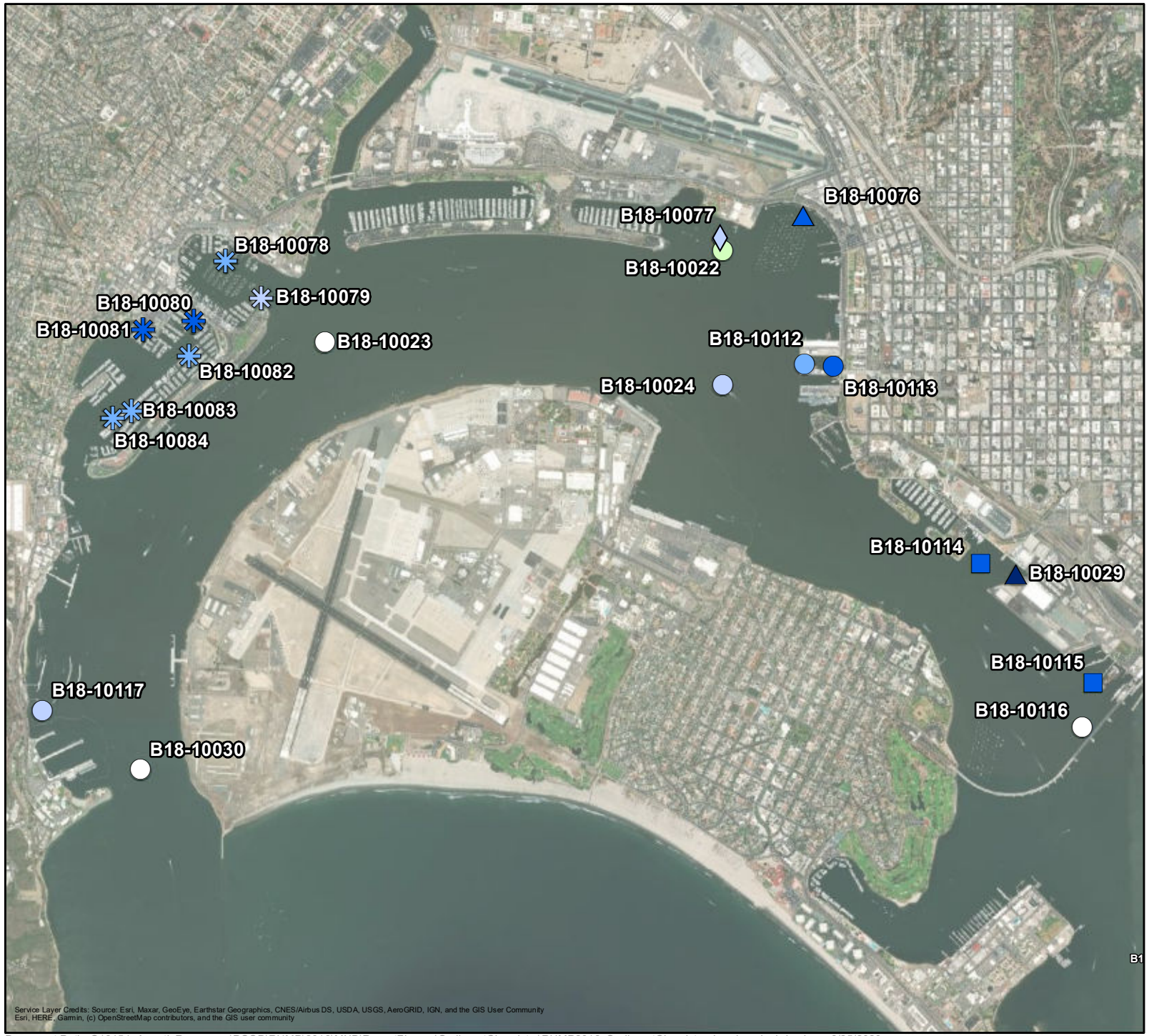
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

North San Diego Bay



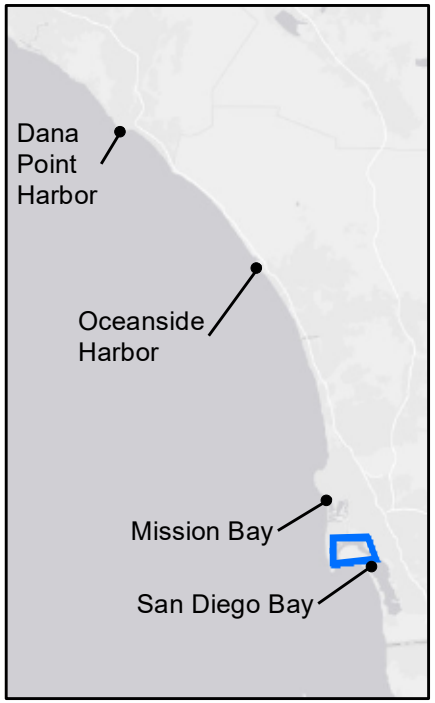
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Lead (mg/kg dry wt.)
Deep	1.75 - 8.21
Freshwater-Influenced	8.22 - 14.1
Industrial/ Port	14.2 - 24.4
Marina	24.5 - 35.1
Shallow	35.2 - 52.5
	52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

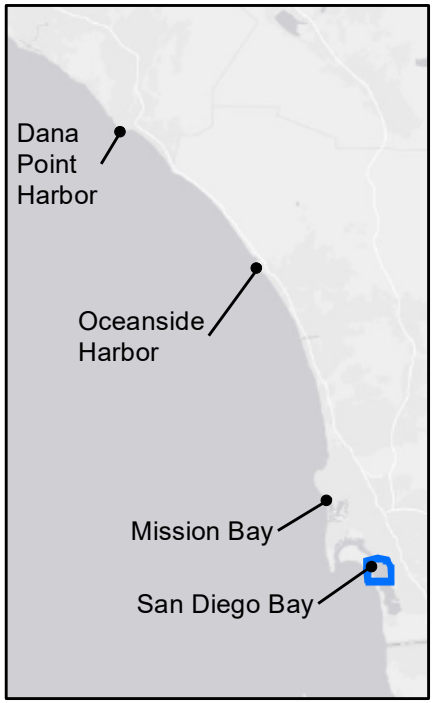
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Lead (mg/kg dry wt.)
Deep	1.75 - 8.21
Freshwater-Influenced	8.22 - 14.1
Industrial/ Port	14.2 - 24.4
Marina	24.5 - 35.1
Shallow	35.2 - 52.5
	52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

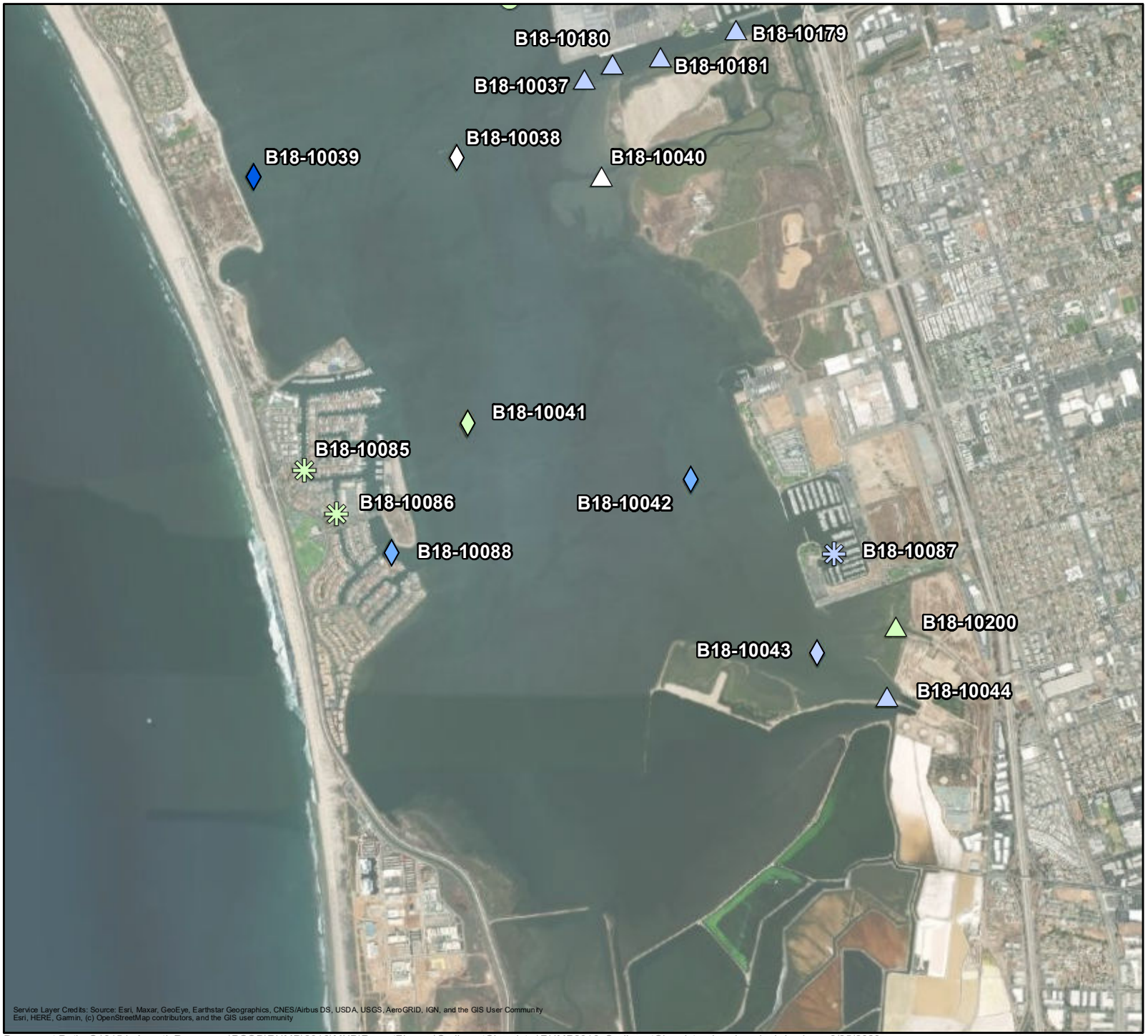
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

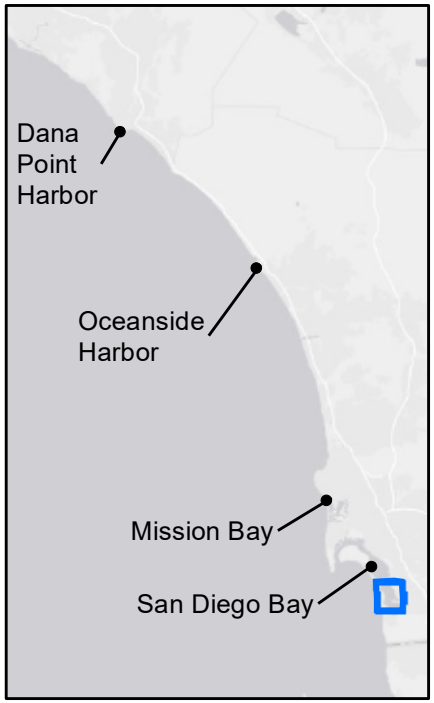
Lead (mg/kg dry wt.)

- 1.75 - 8.21
- 8.22 - 14.1
- 14.2 - 24.4
- 24.5 - 35.1
- 35.2 - 52.5
- 52.6 - 367

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Lead.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

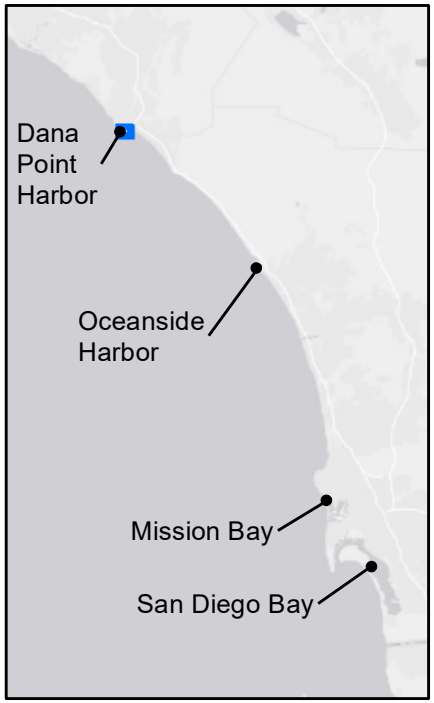
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

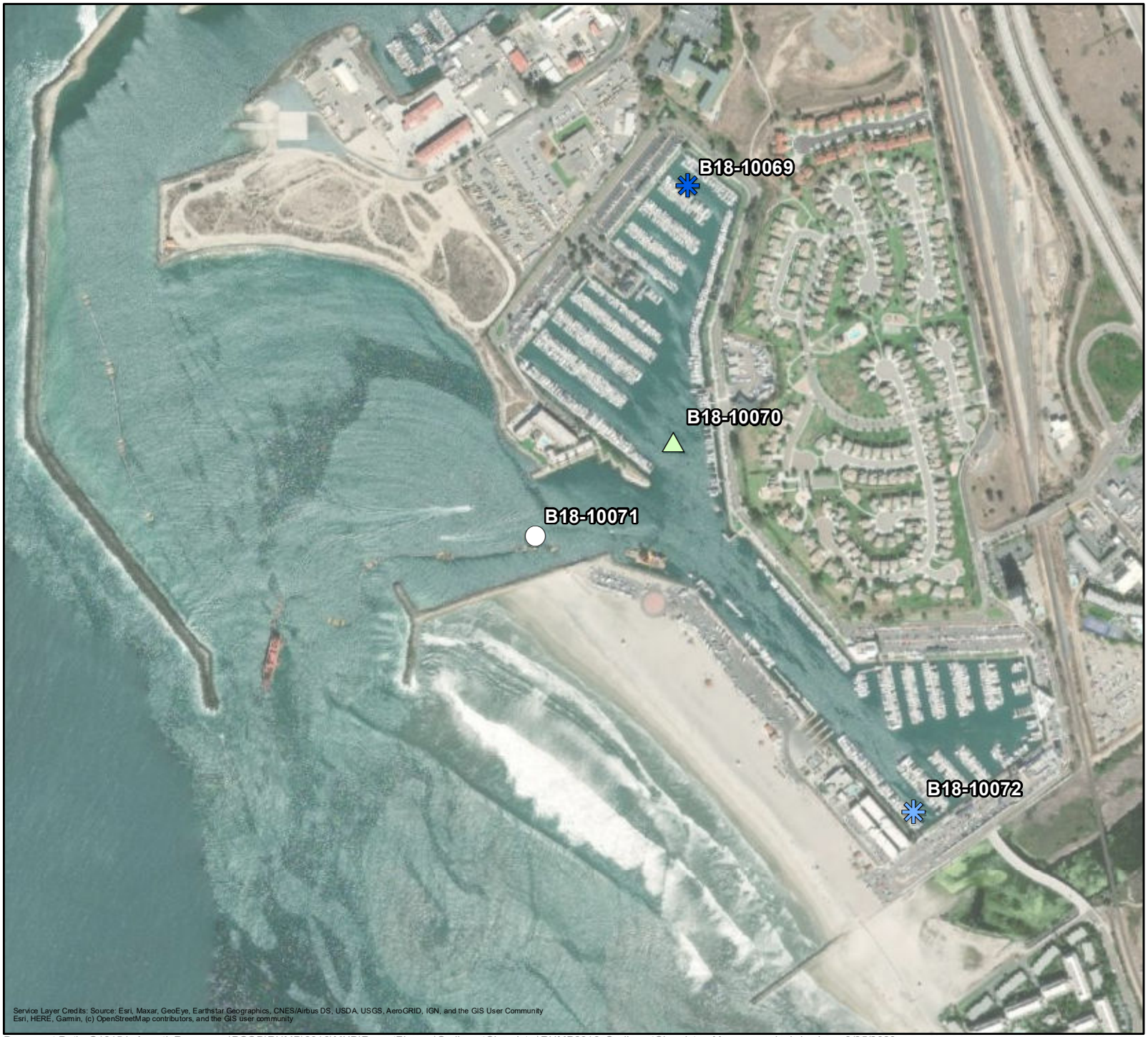
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Mercury.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

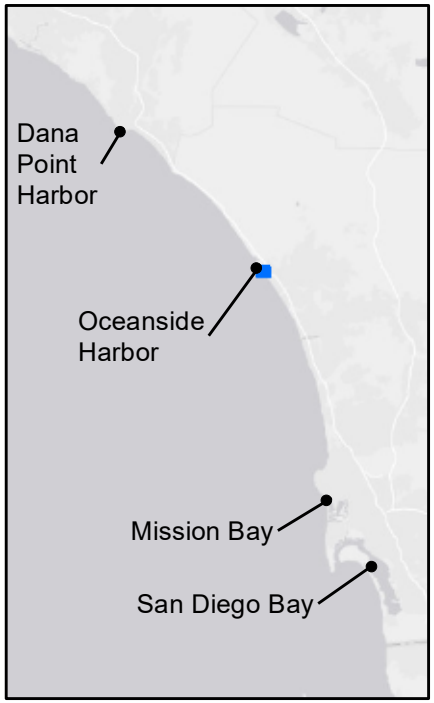
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

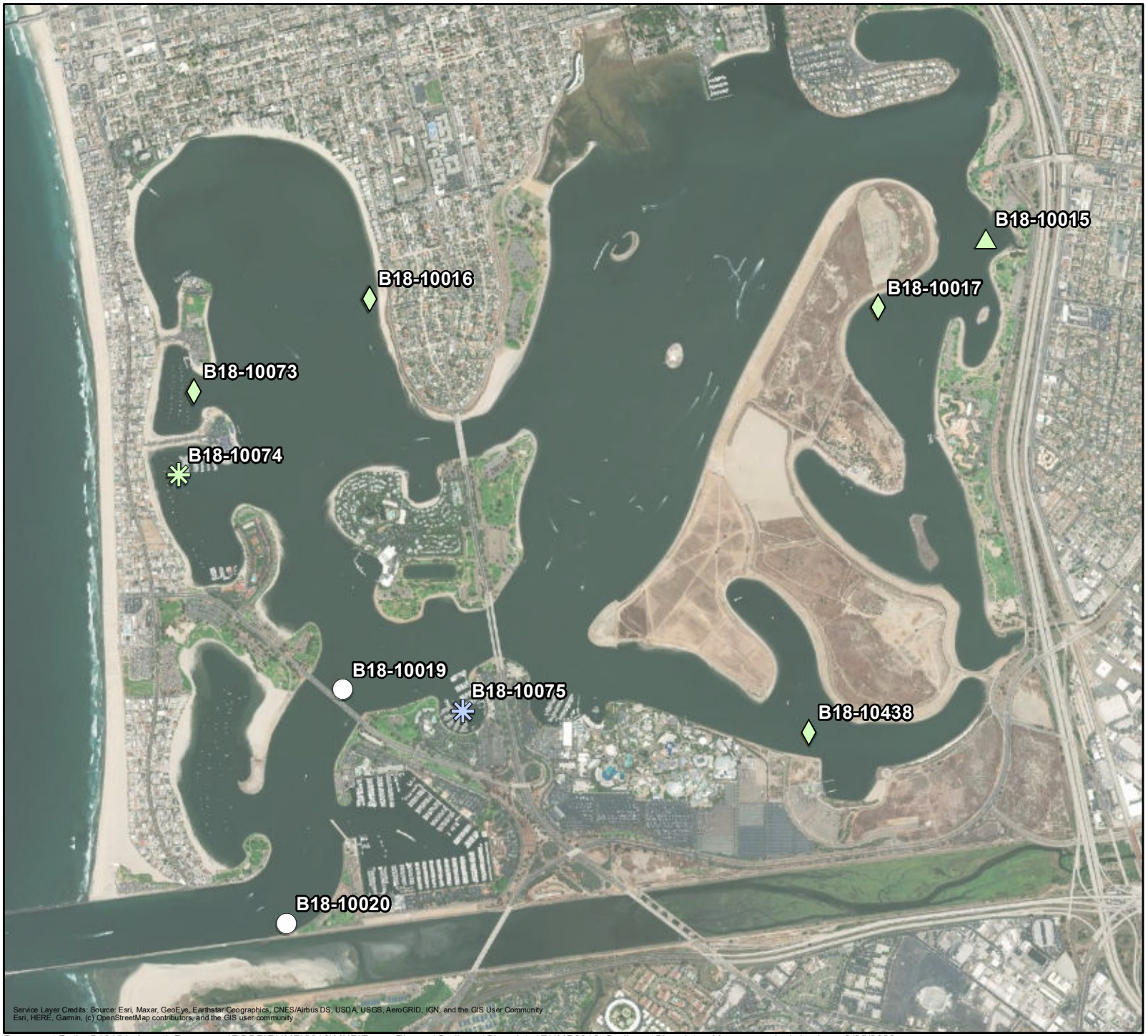
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Mercury.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

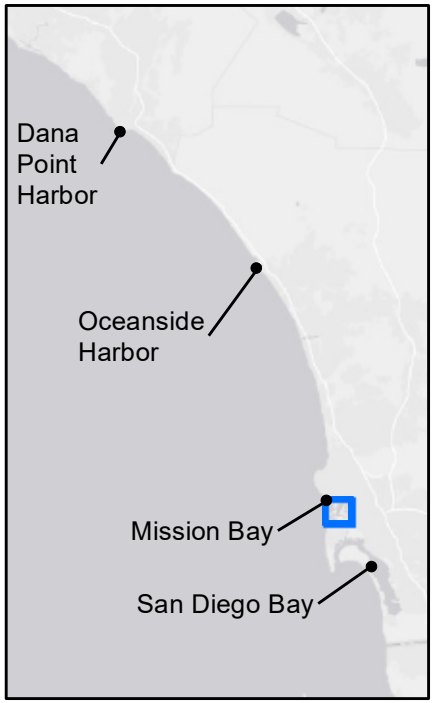
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

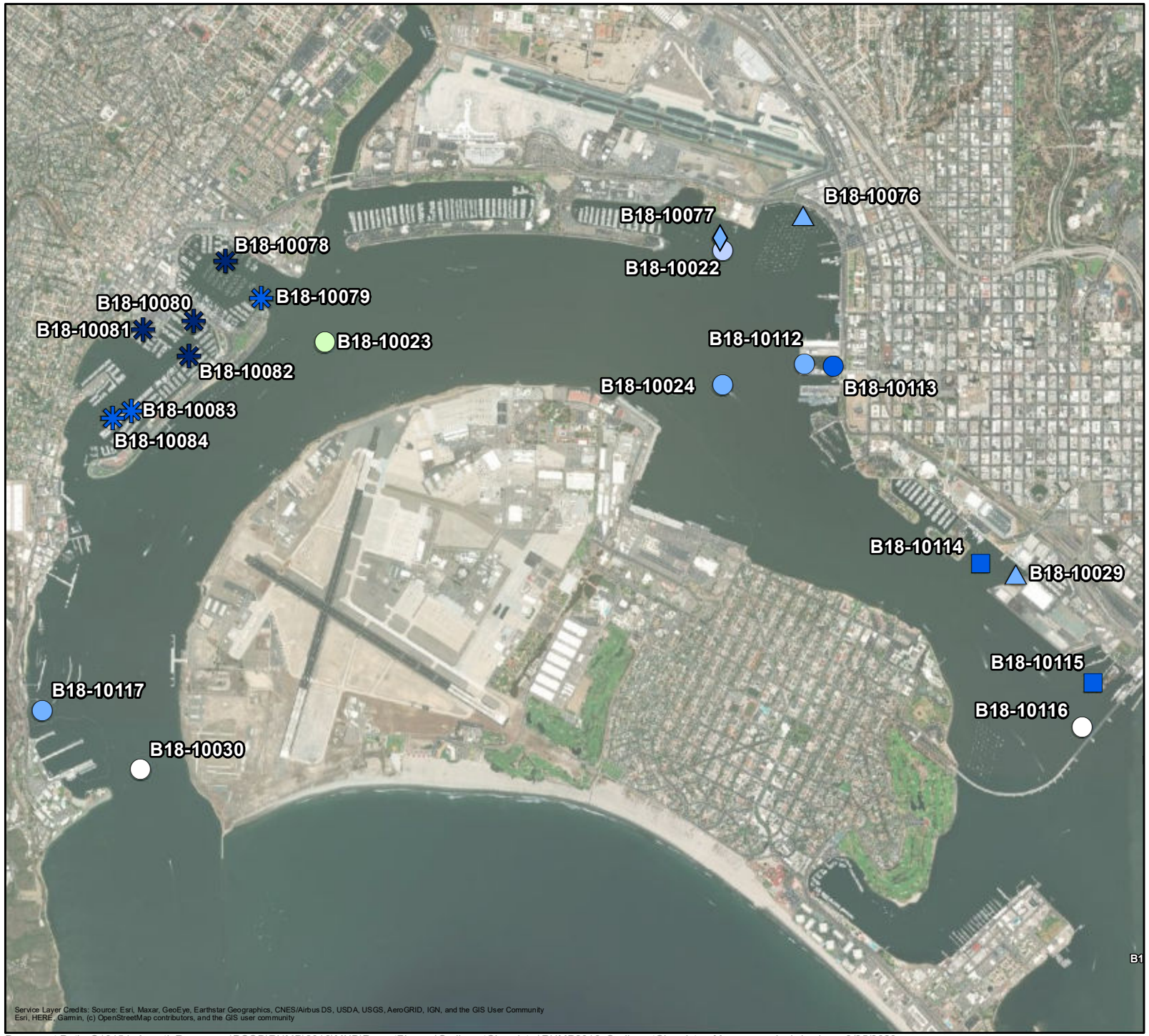
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Mercury.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

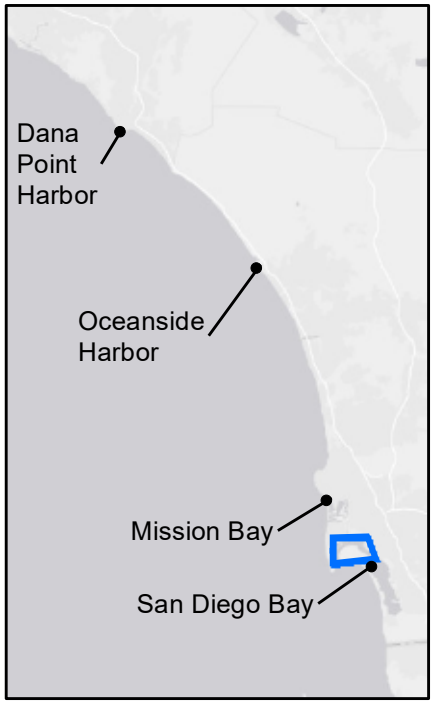
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Mercury.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

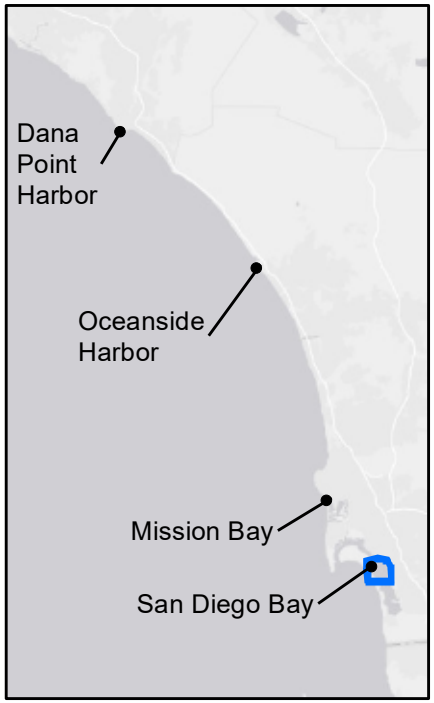
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

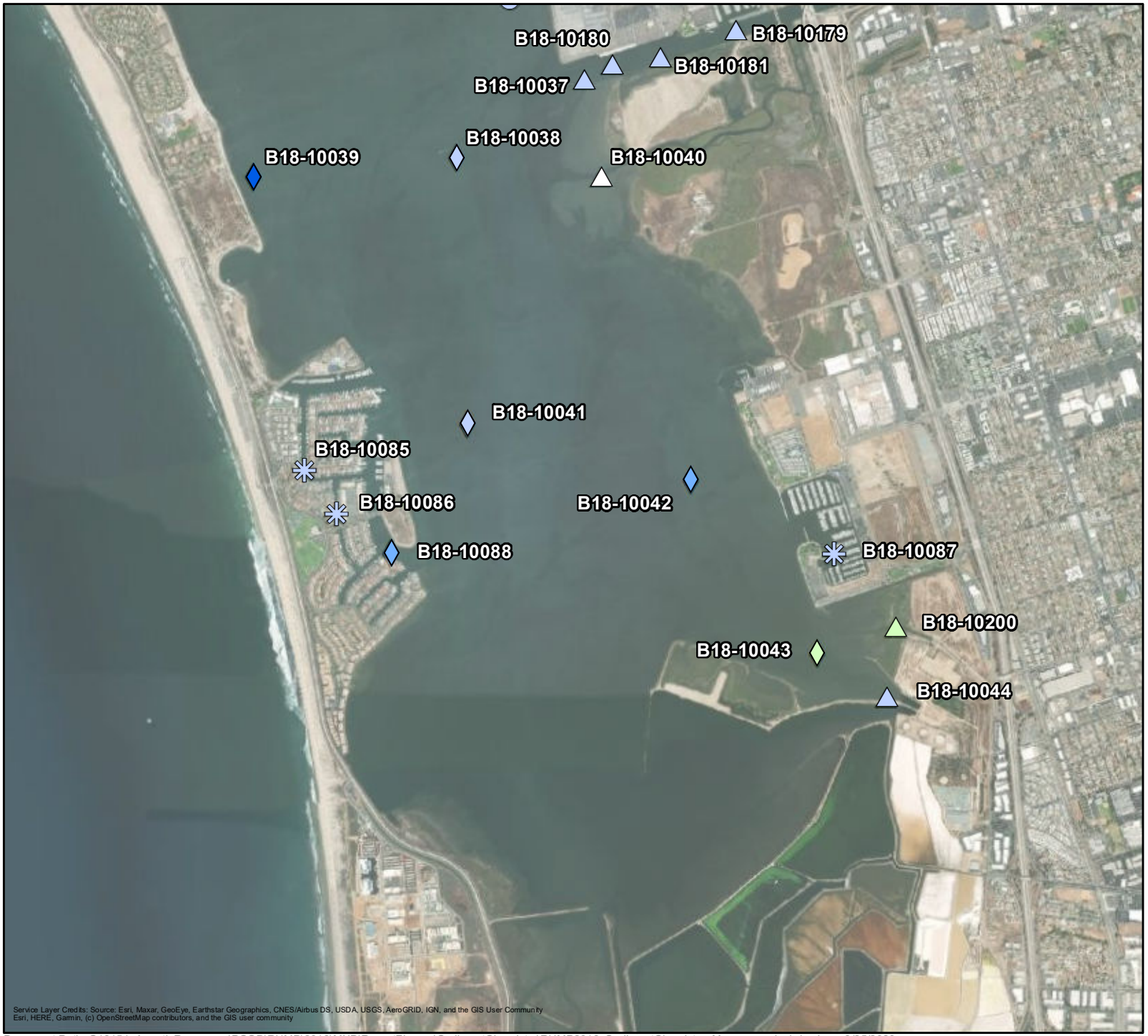
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Mercury.mxd, chris.nixon, 8/25/2020

South San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

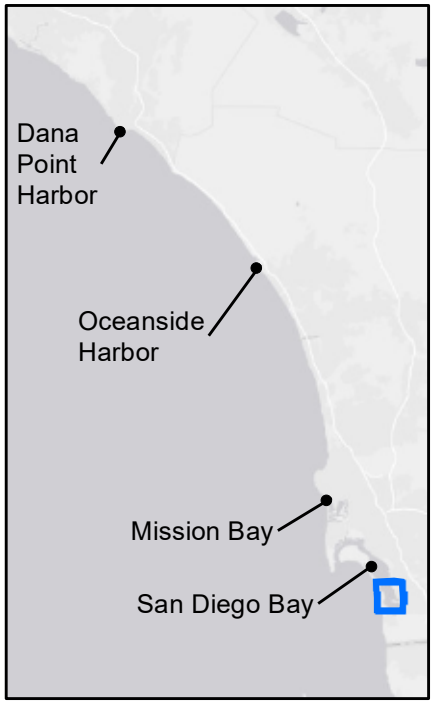
Mercury (mg/kg dry wt.)

- 0.0053 - 0.0322
- 0.0323 - 0.0779
- 0.0780 - 0.154
- 0.155 - 0.365
- 0.366 - 0.764
- 0.765 - 1.84

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Dana Point Harbor

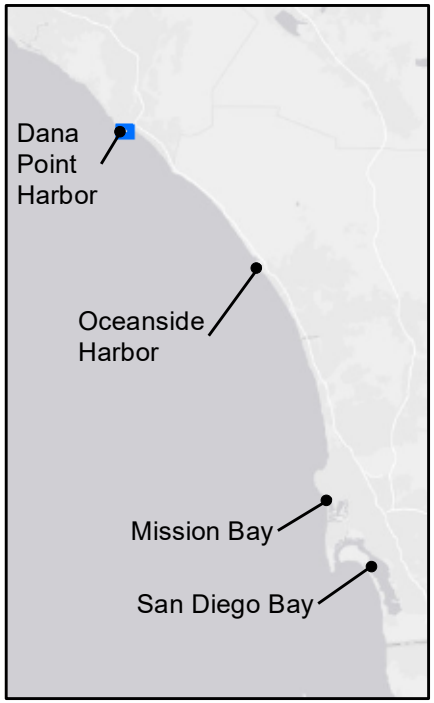
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

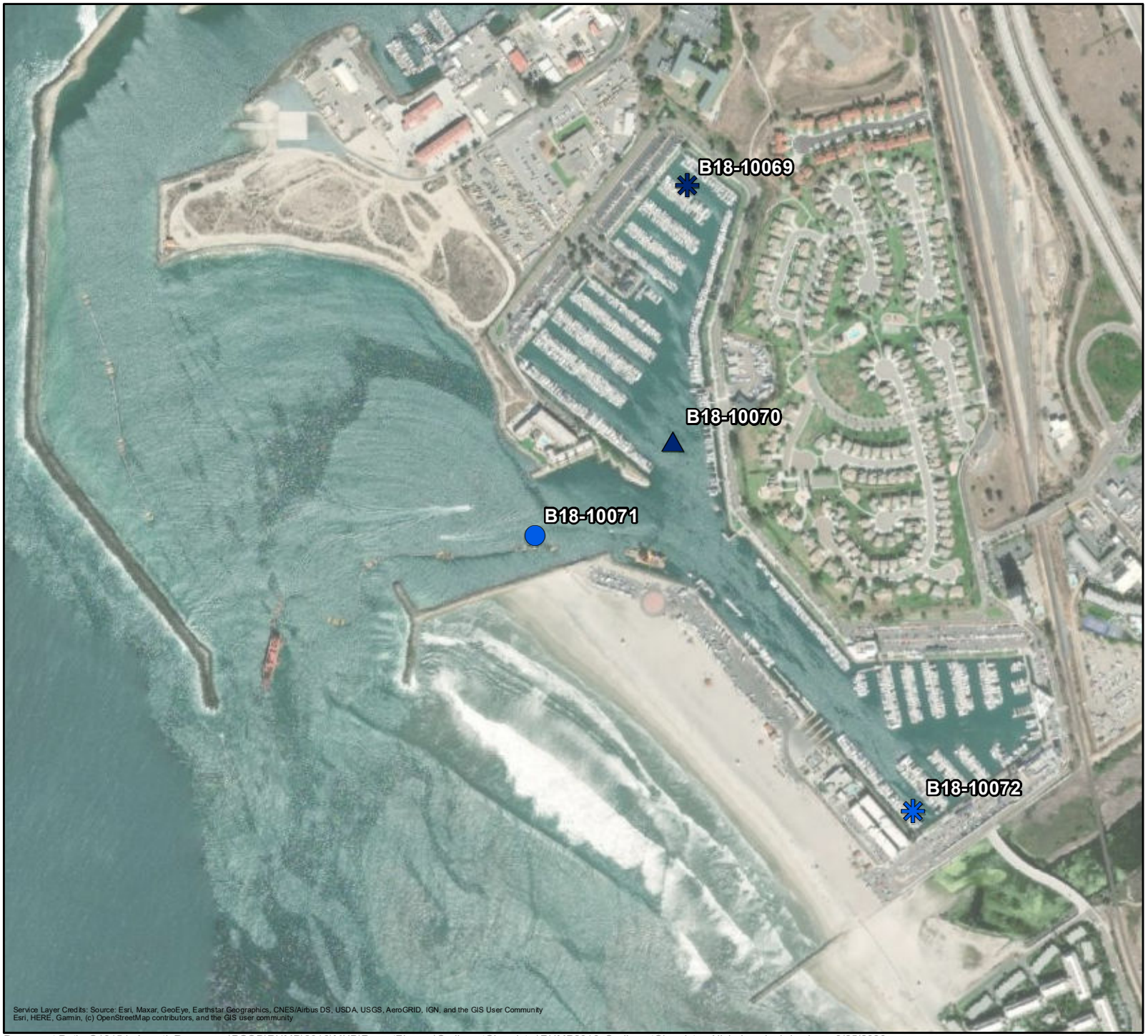
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Nickel.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



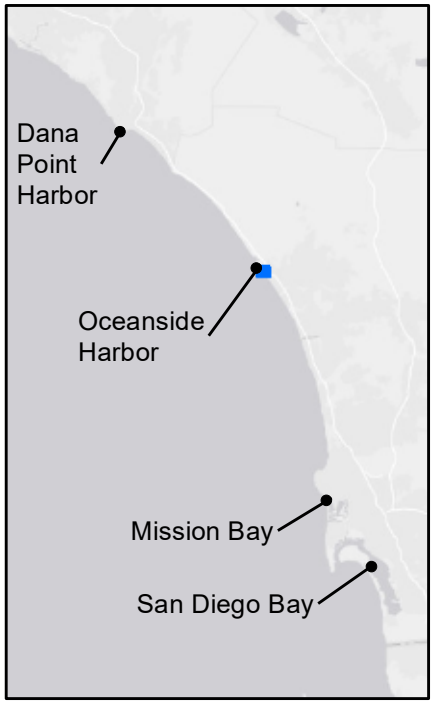
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

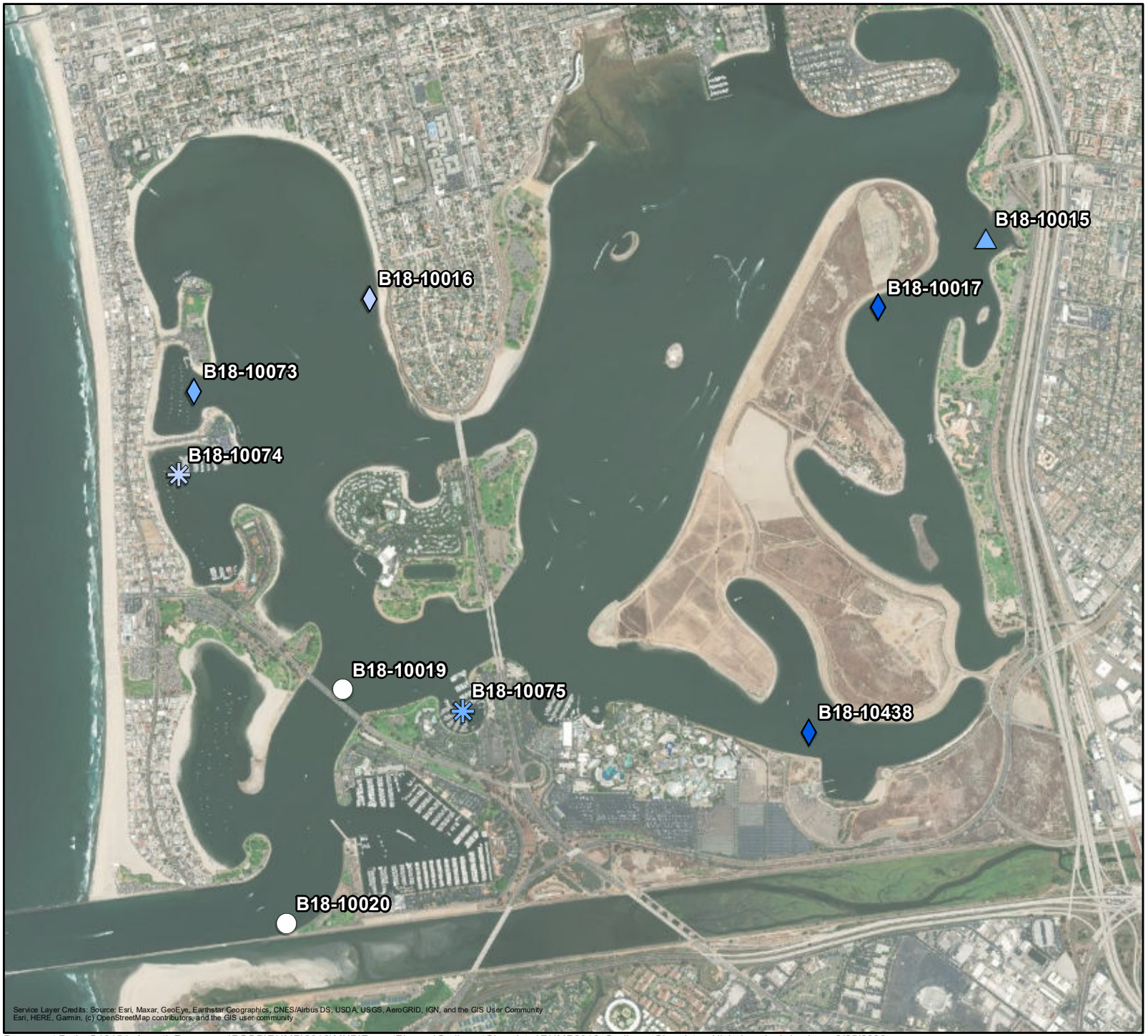
Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.15 0.3 km



Mission Bay



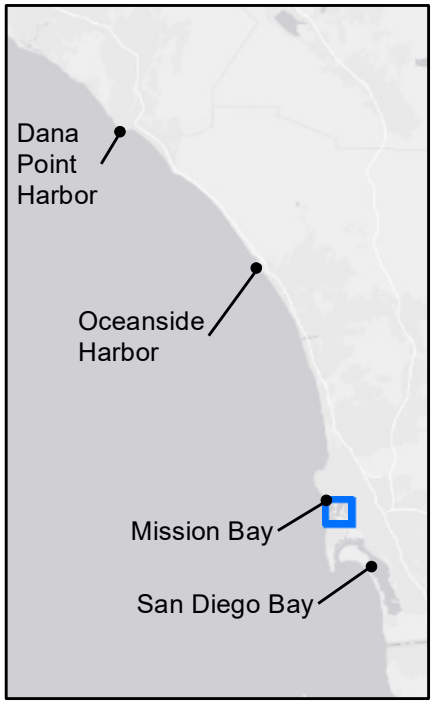
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

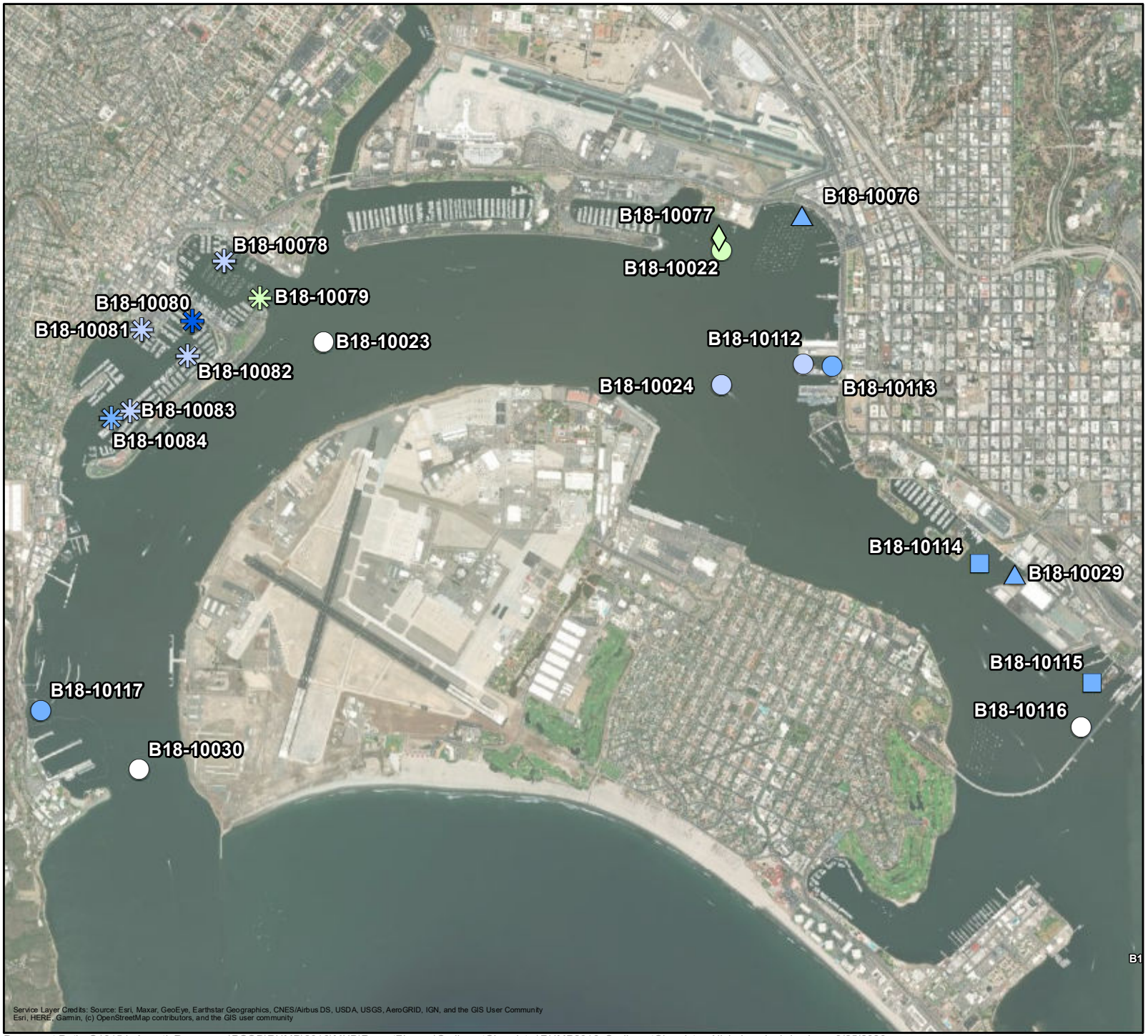
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Nickel.mxd, chris.nixon, 8/25/2020

North San Diego Bay



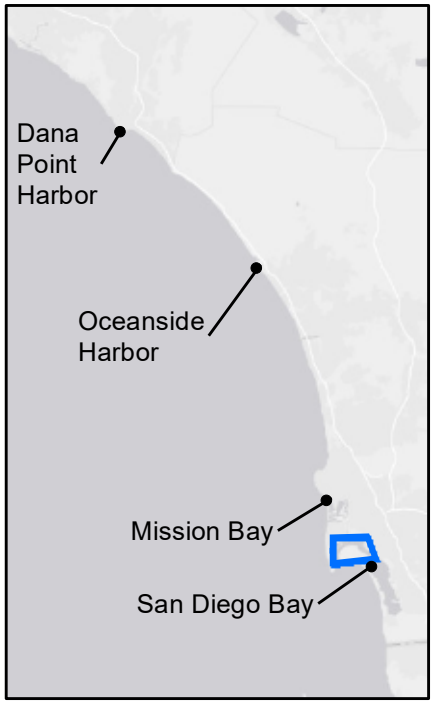
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Central San Diego Bay

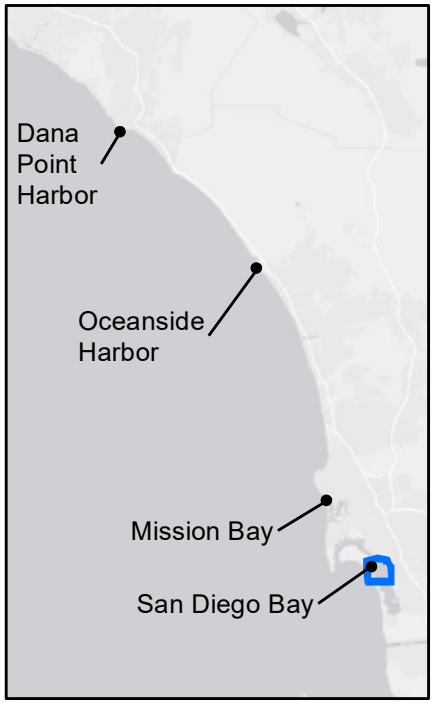
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

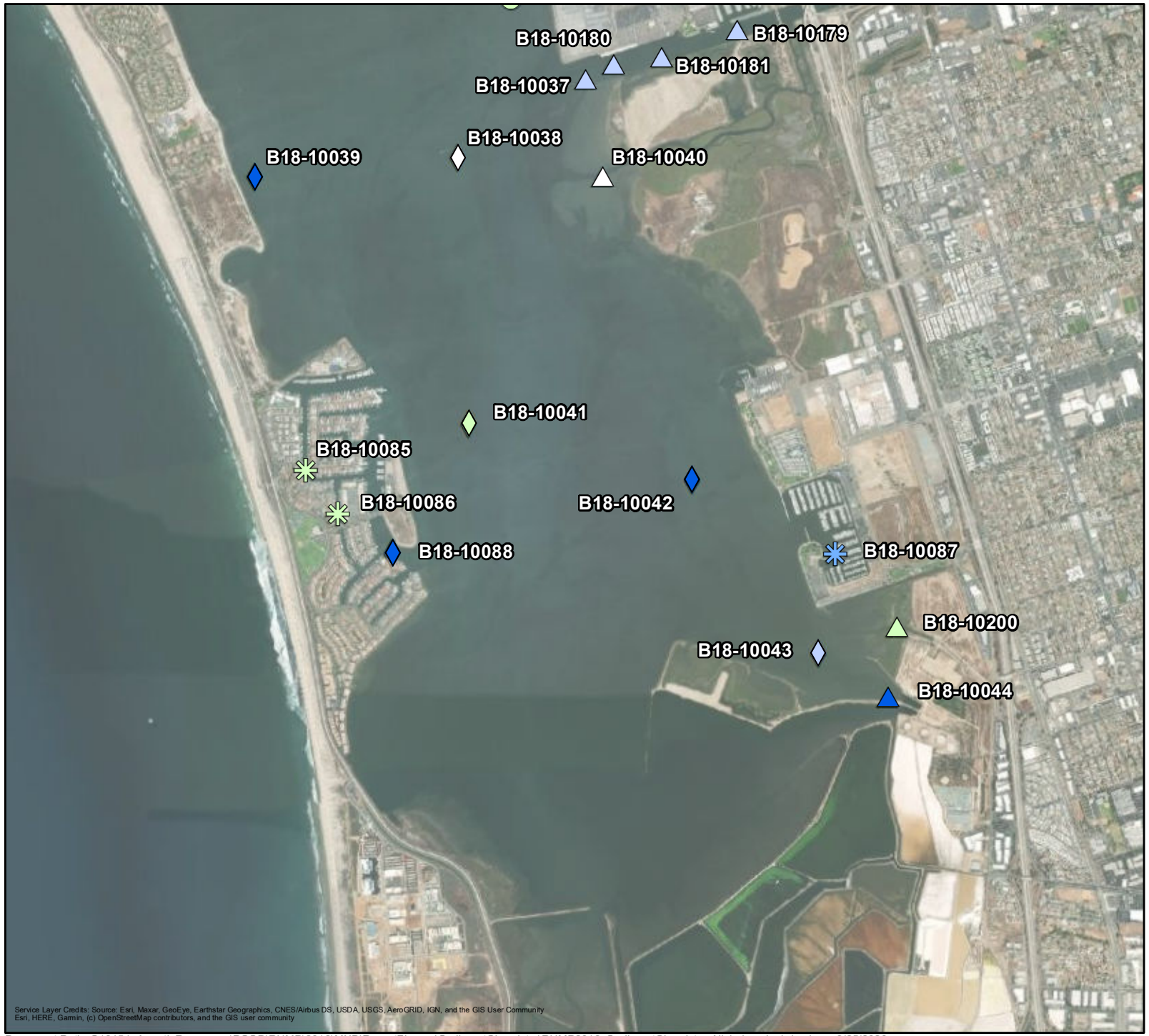
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Nickel.mxd, chris.nixon, 8/25/2020

South San Diego Bay



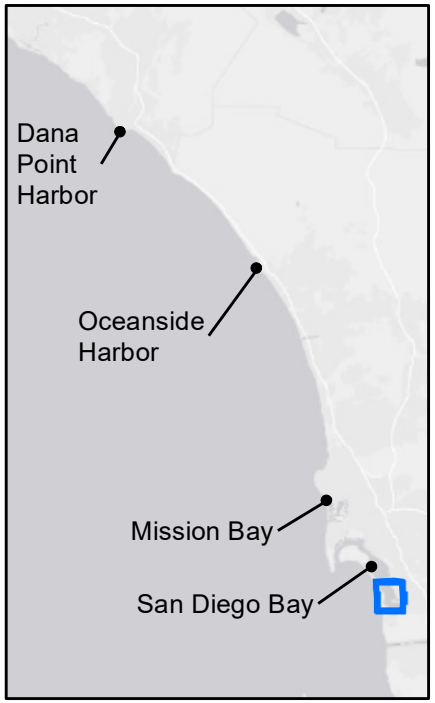
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Nickel (mg/kg dry wt.)
Deep	1.20 - 5.59
Freshwater-Influenced	5.60 - 9.81
Industrial/ Port	9.82 - 13.8
Marina	13.9 - 16.8
Shallow	16.9 - 25.8
	25.9 - 28.5

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Nickel.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

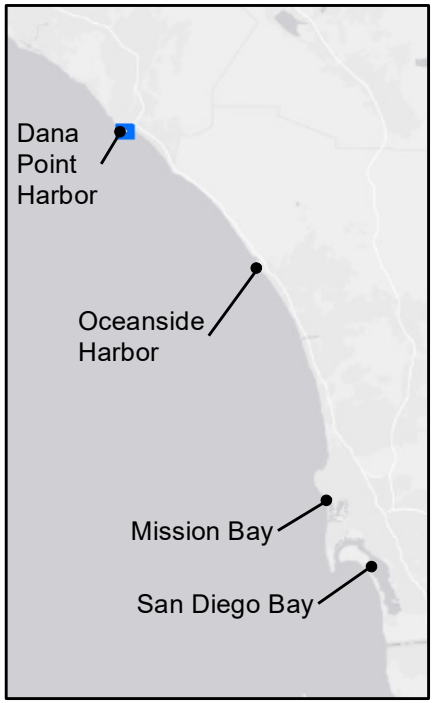
Zinc (mg/kg dry wt.)

- 10.8 - 72.7
- 72.8 - 115
- 116 - 166
- 167 - 210
- 211 - 318
- 319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

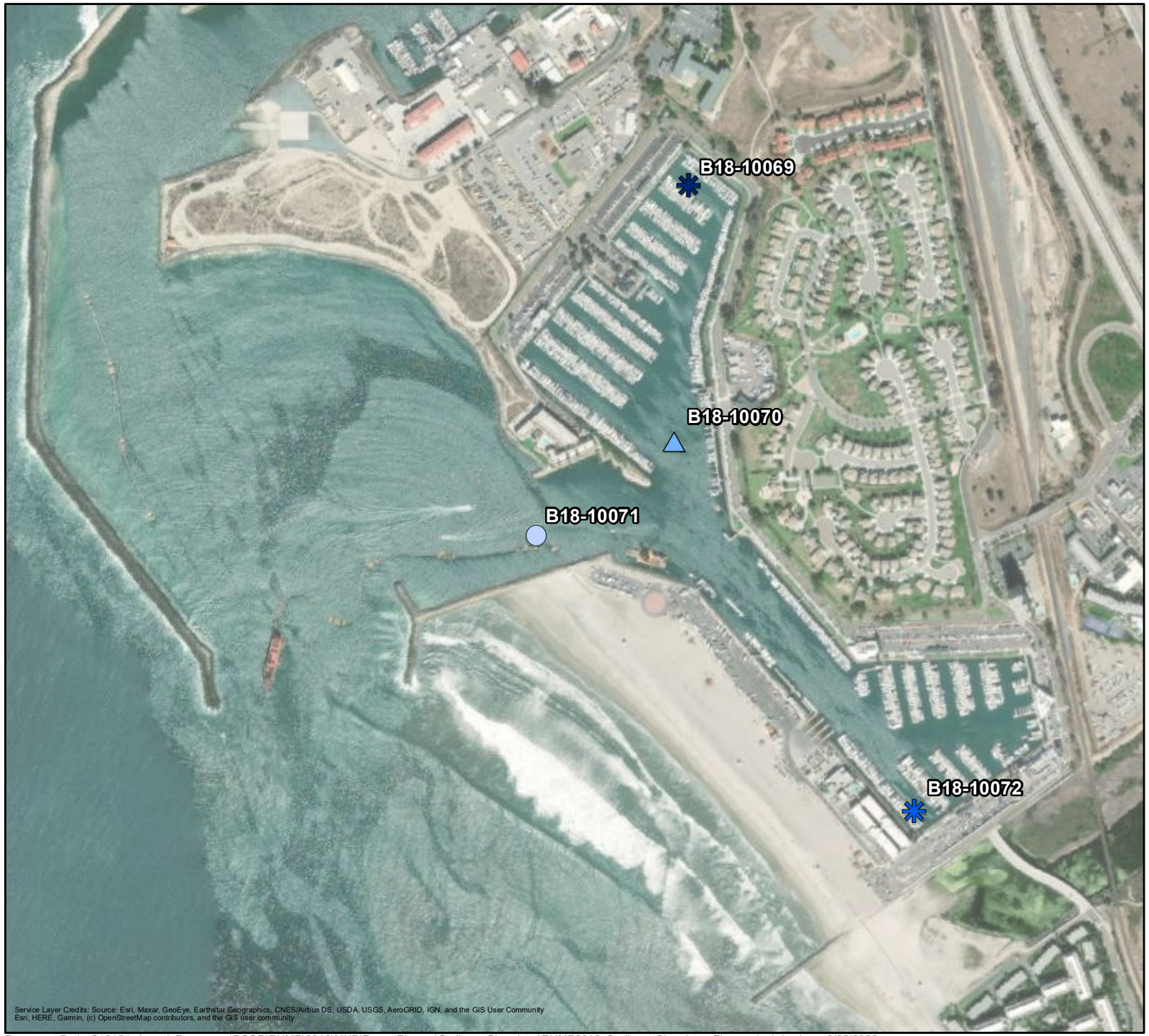
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



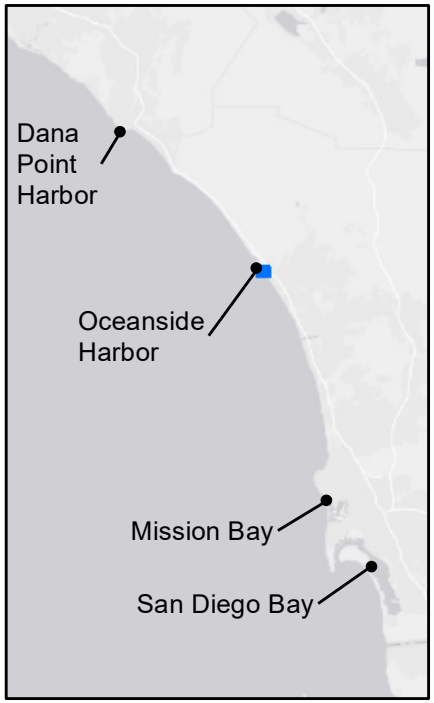
2018 RHMP SEDIMENT CHEMISTRY

Stratum	Zinc (mg/kg dry wt.)
Deep	10.8 - 72.7
Freshwater-Influenced	72.8 - 115
Industrial/ Port	116 - 166
Marina	167 - 210
Shallow	211 - 318
	319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

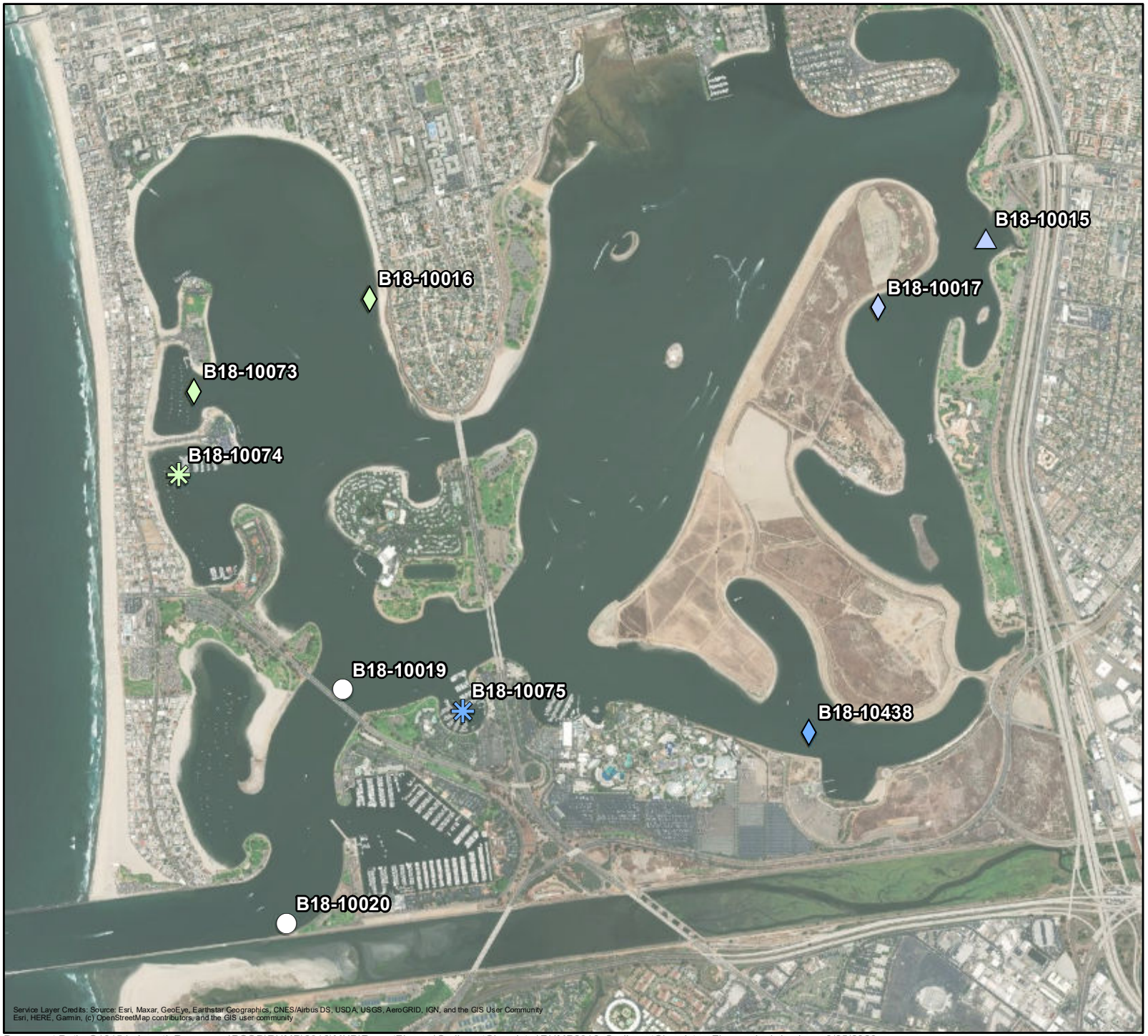
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

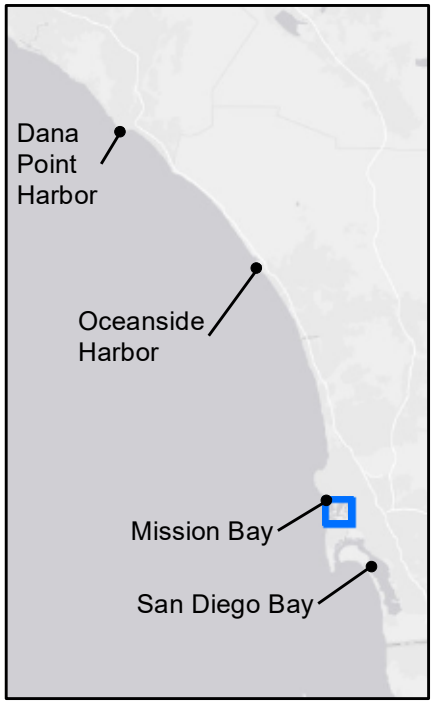
Zinc (mg/kg dry wt.)

- 10.8 - 72.7
- 72.8 - 115
- 116 - 166
- 167 - 210
- 211 - 318
- 319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

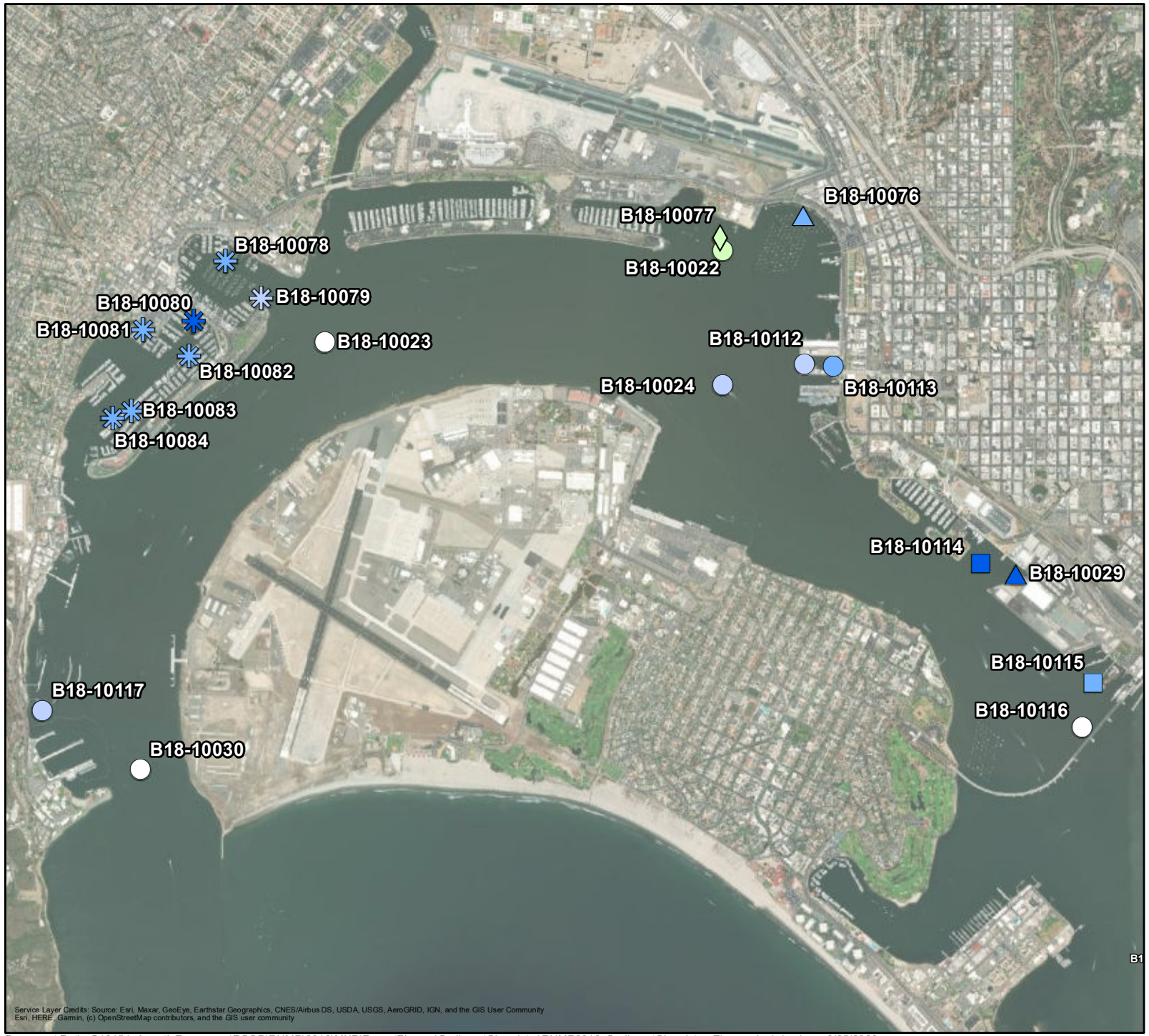
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

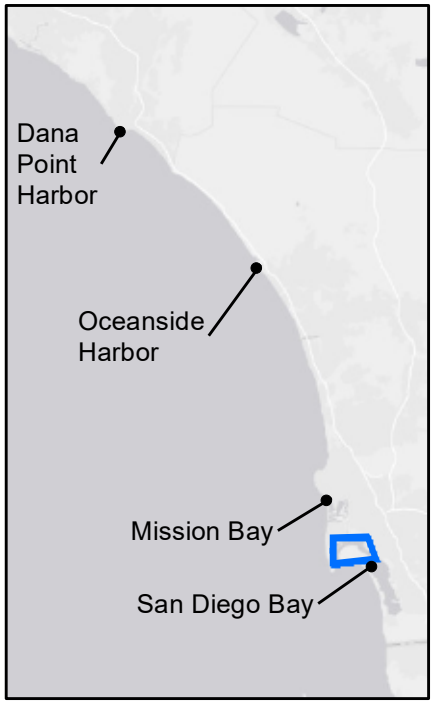
Zinc (mg/kg dry wt.)

- 10.8 - 72.7
- 72.8 - 115
- 116 - 166
- 167 - 210
- 211 - 318
- 319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

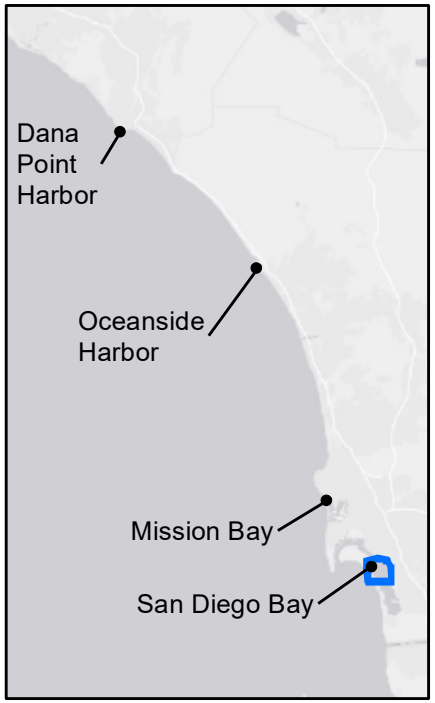
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Zinc (mg/kg dry wt.)
Deep	10.8 - 72.7
Freshwater-Influenced	72.8 - 115
Industrial/ Port	116 - 166
Marina	167 - 210
Shallow	211 - 318
	319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

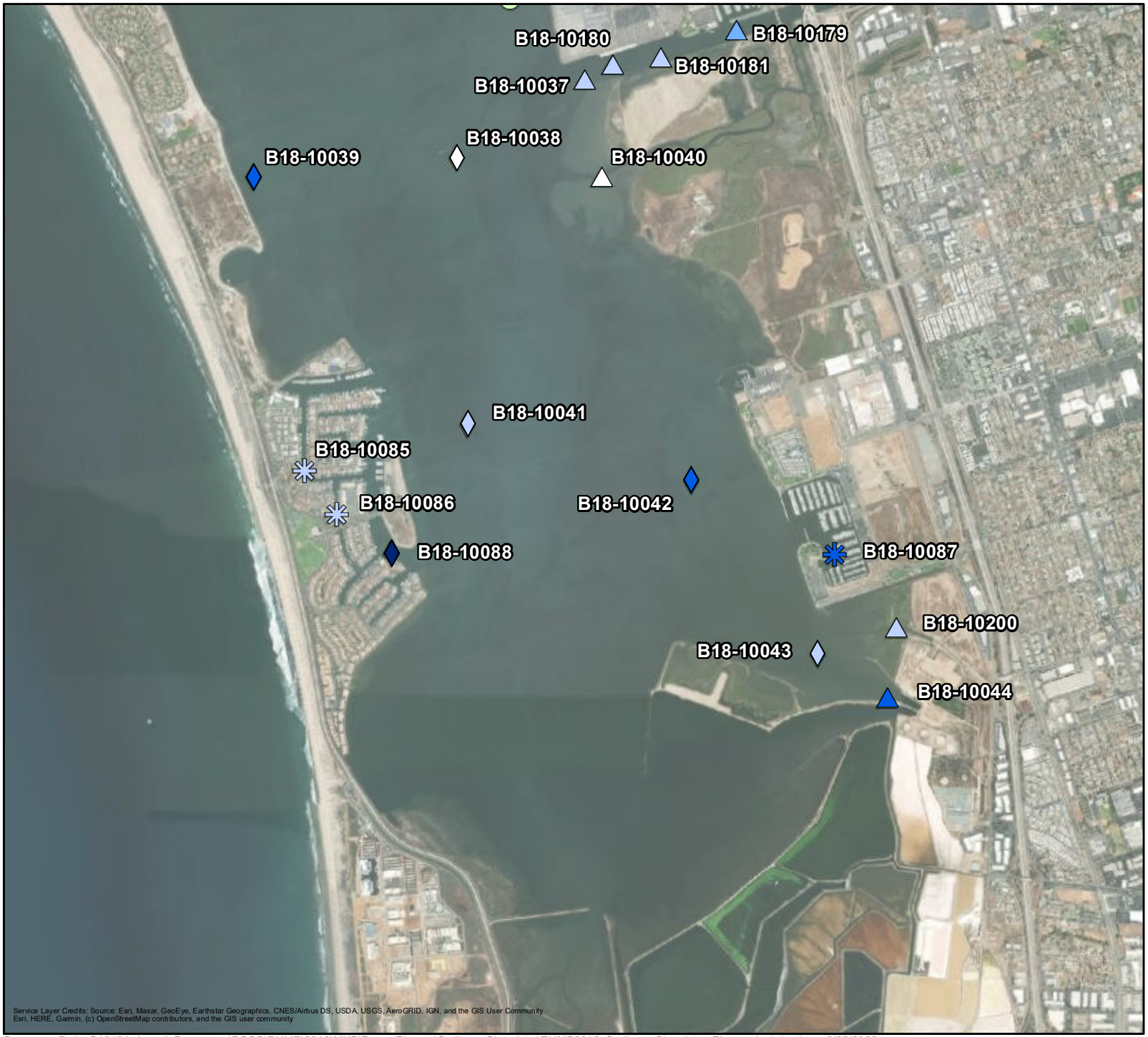
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

South San Diego Bay



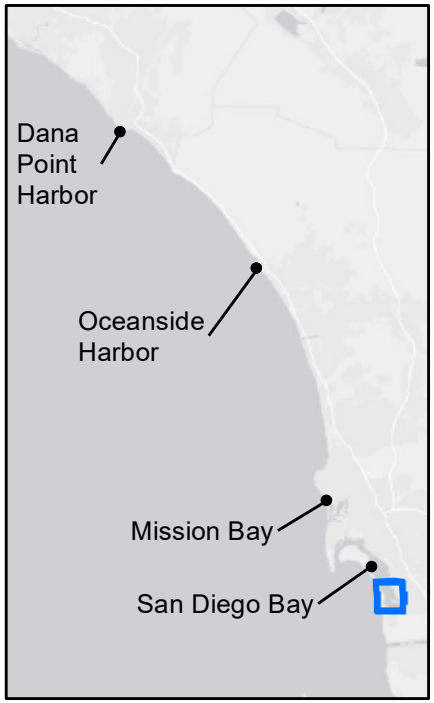
2018 RHMP
SEDIMENT CHEMISTRY

Stratum	Zinc (mg/kg dry wt.)
Deep	10.8 - 72.7
Freshwater-Influenced	72.8 - 115
Industrial/ Port	116 - 166
Marina	167 - 210
Shallow	211 - 318
	319 - 616

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_Zinc.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

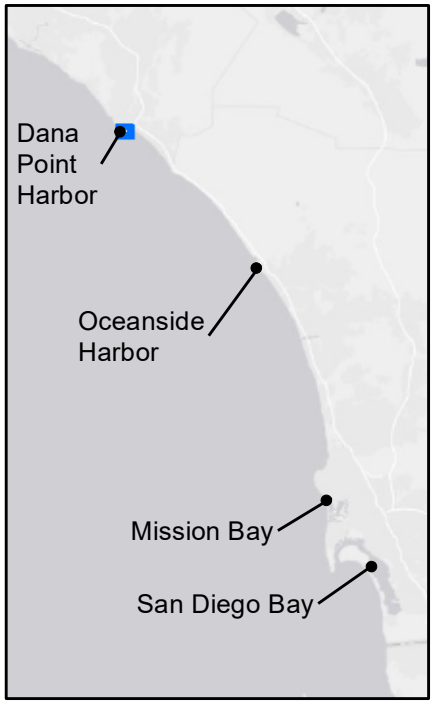
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

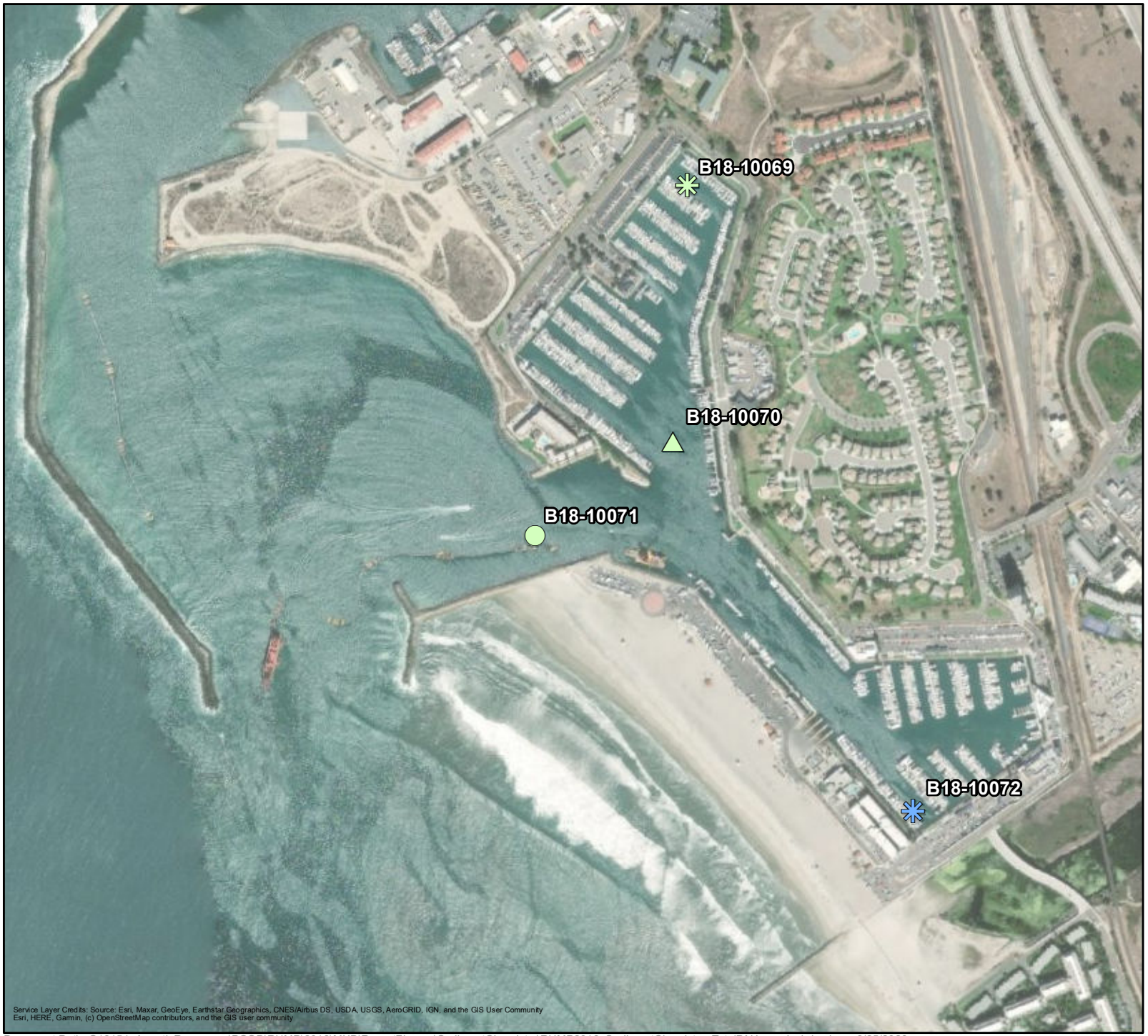
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPAHs.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

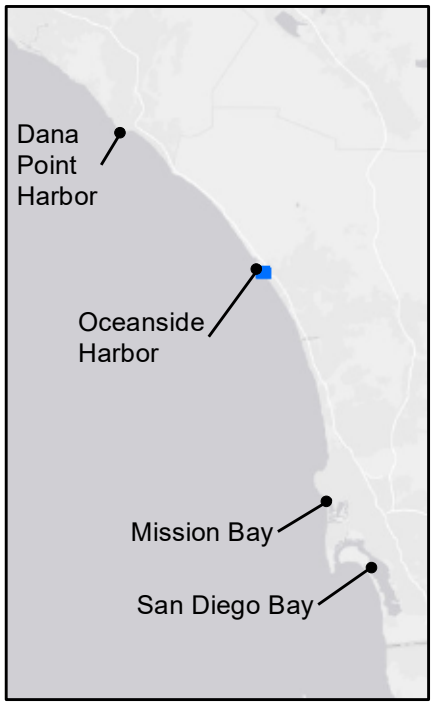
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

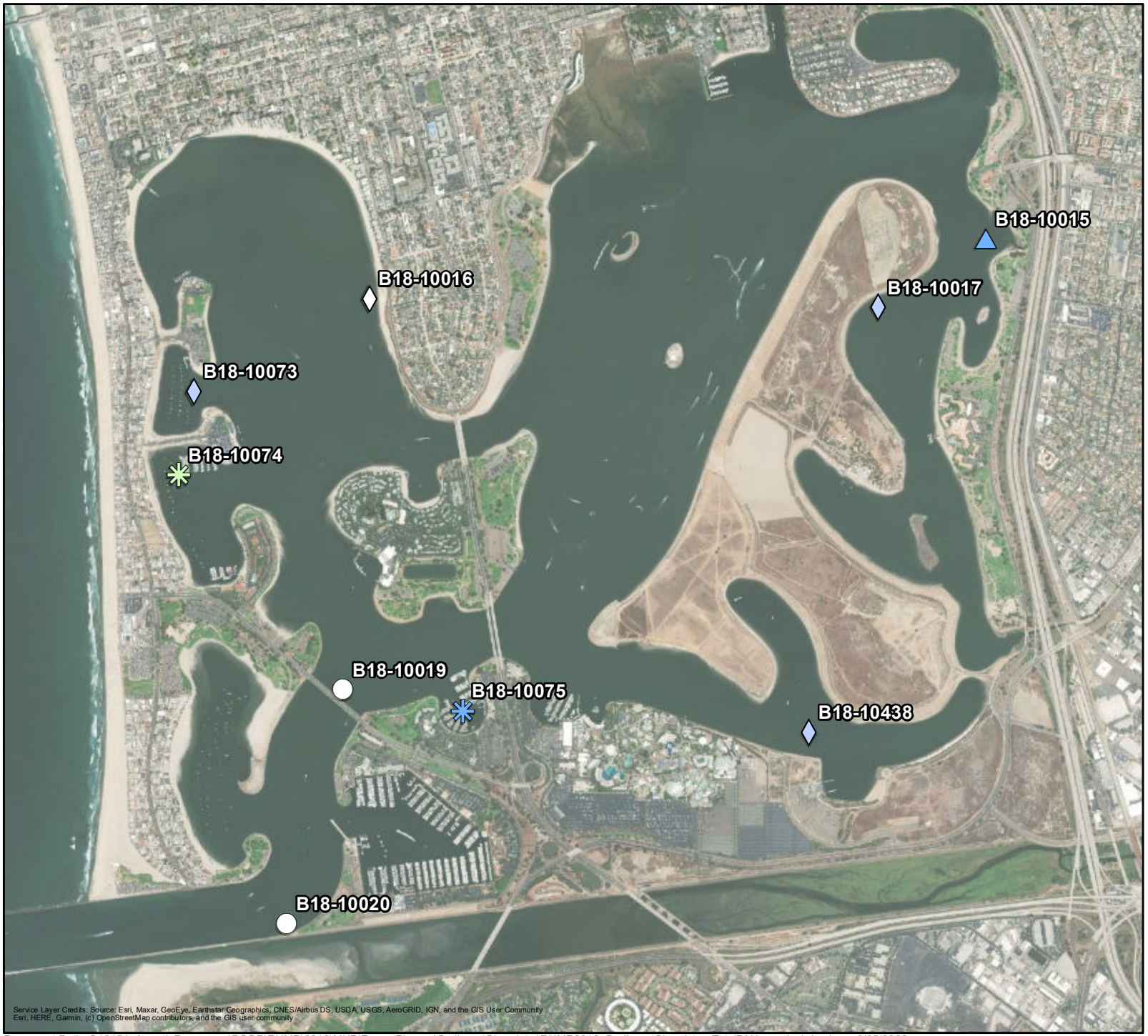
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPAHs.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

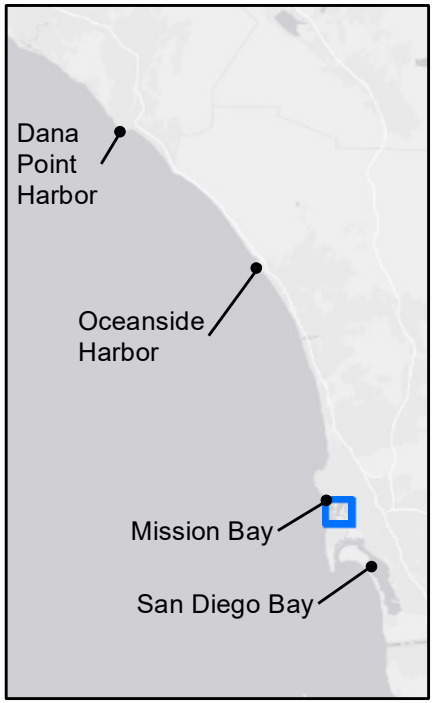
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

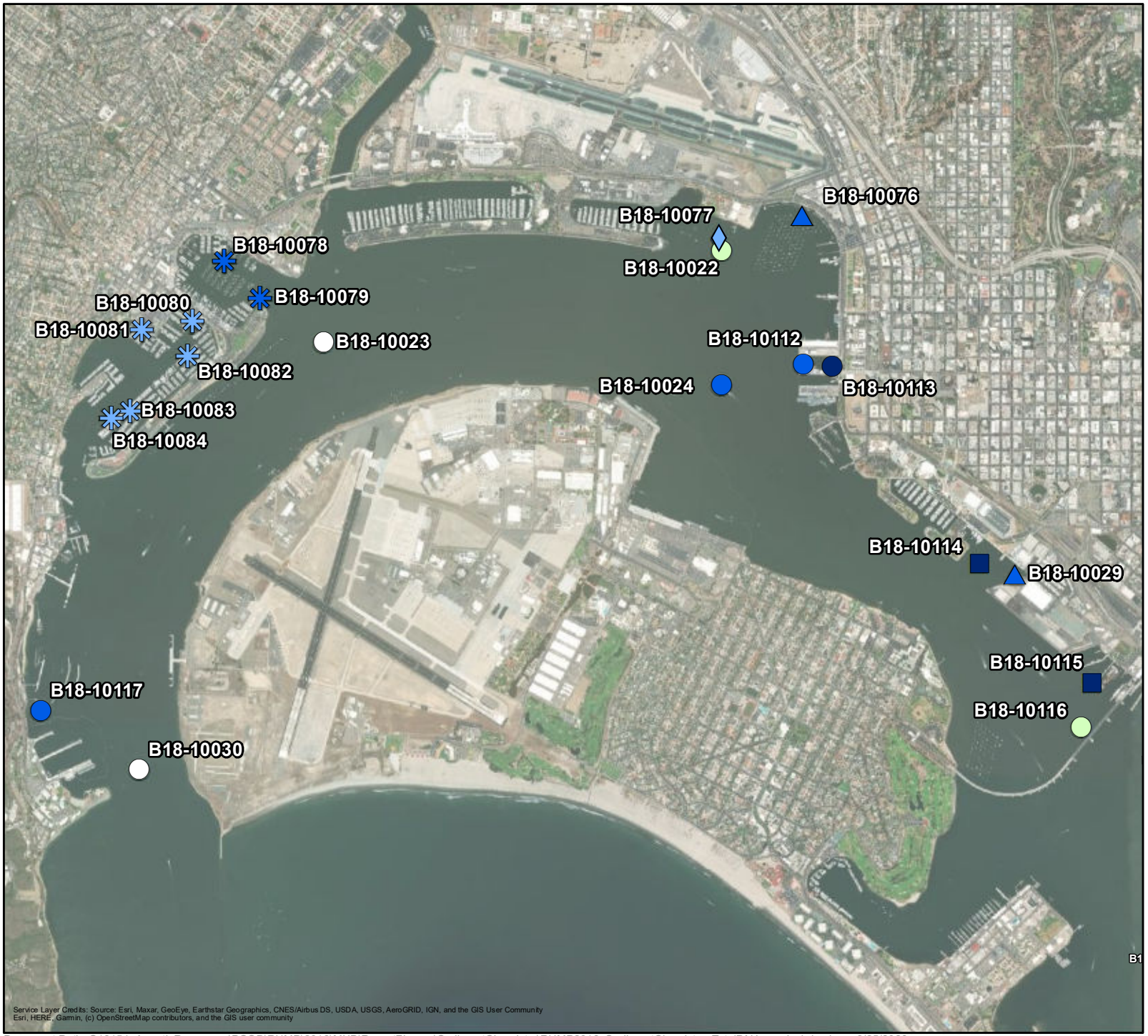
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPAHs.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

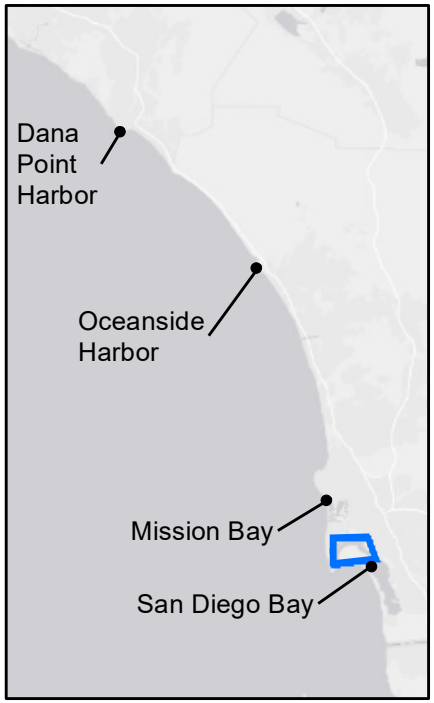
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPAHs.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

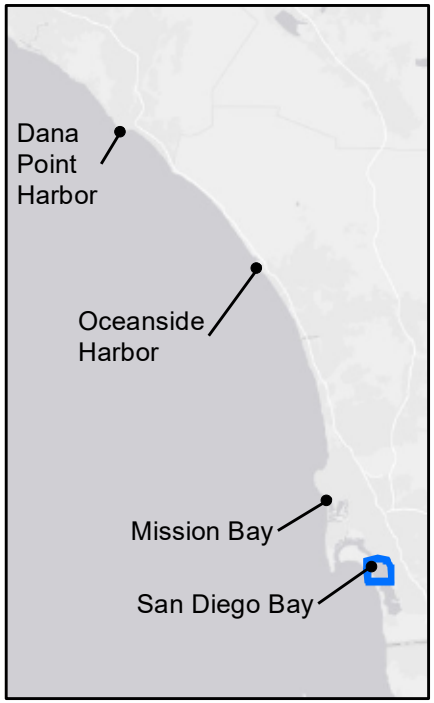
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

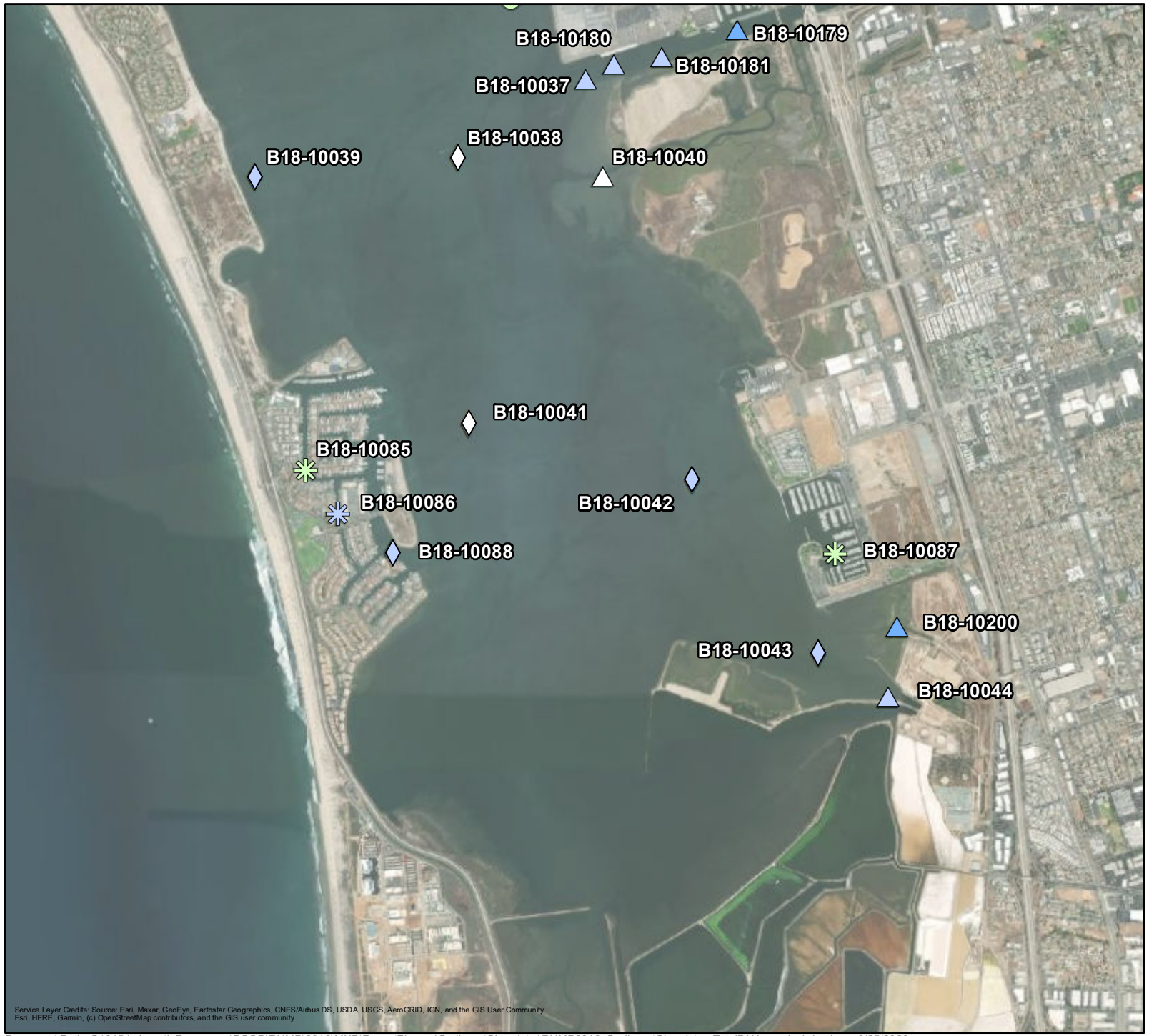
Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.5 1 km



South San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

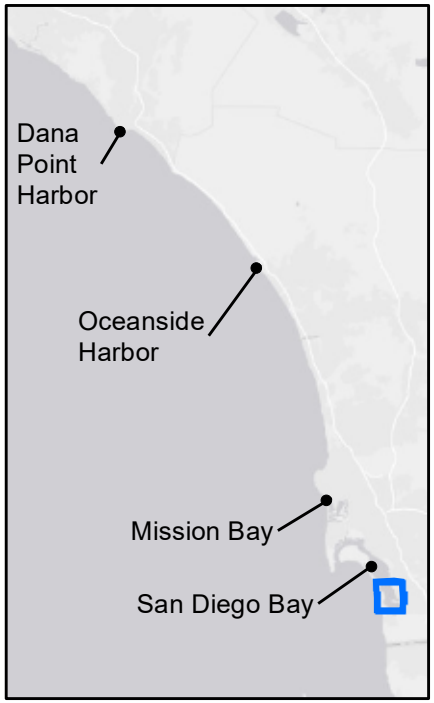
Total PAHs (µg/kg dry wt.)

- 23.8 - 124
- 125 - 215
- 216 - 388
- 389 - 1,510
- 1,511 - 3,300
- 3,301 - 5,130

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

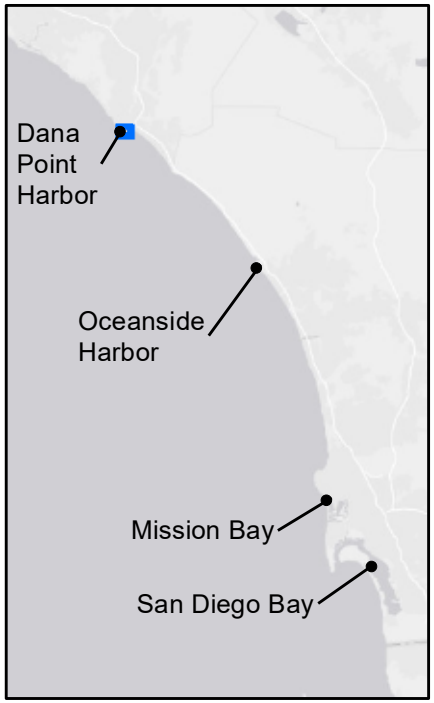
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

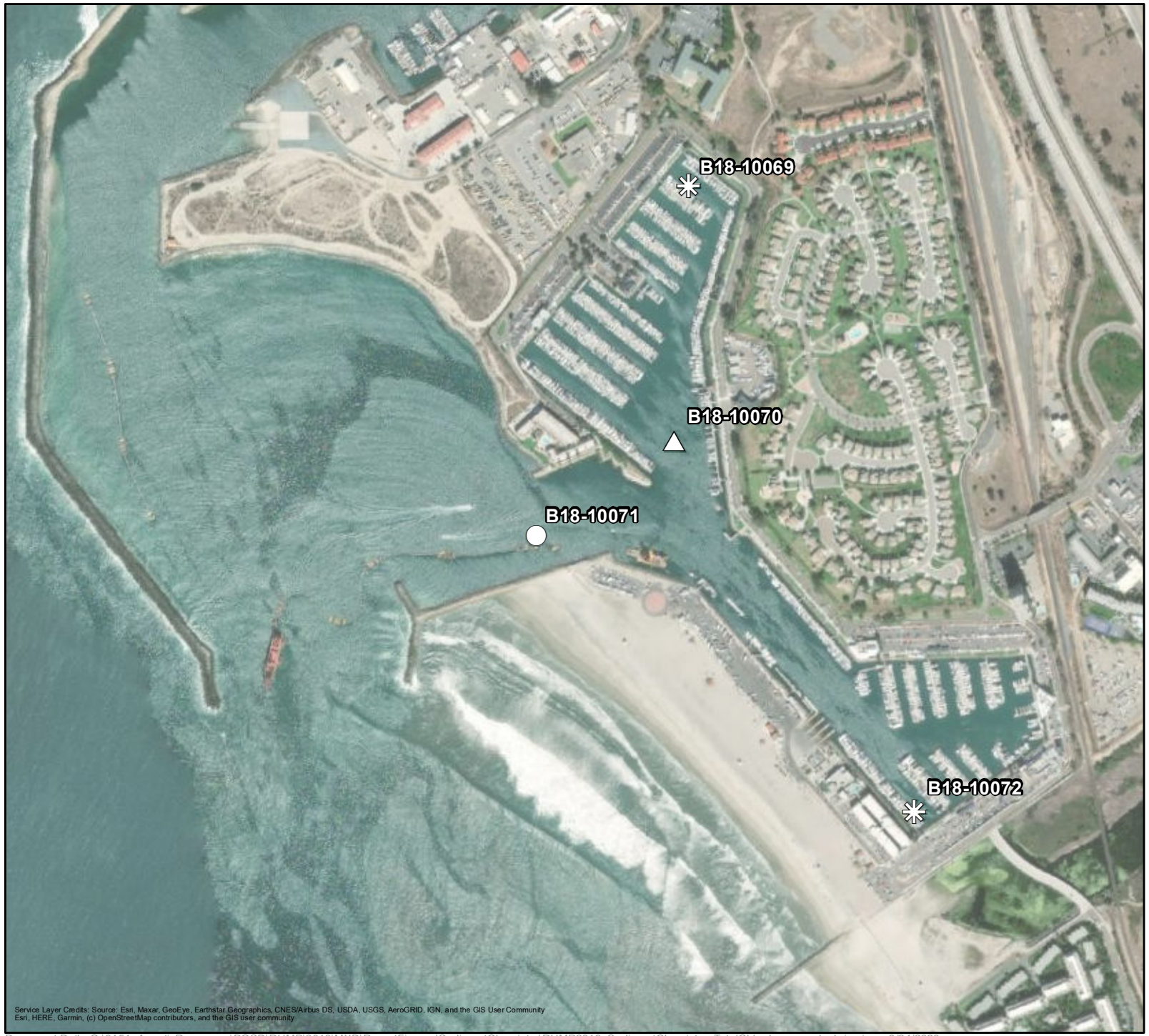
Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.2 0.4 km



Oceanside Harbor



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

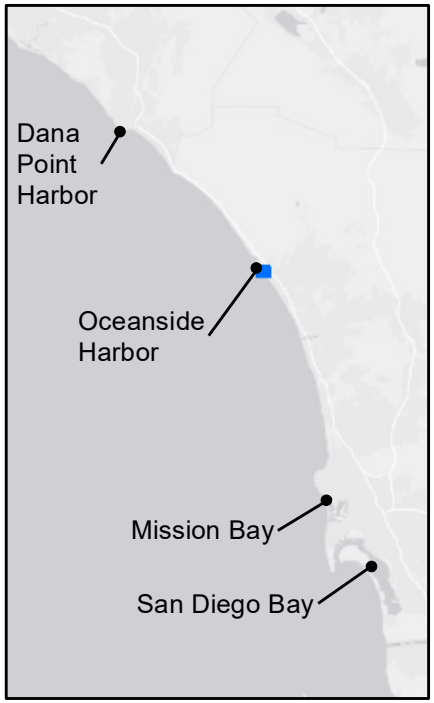
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

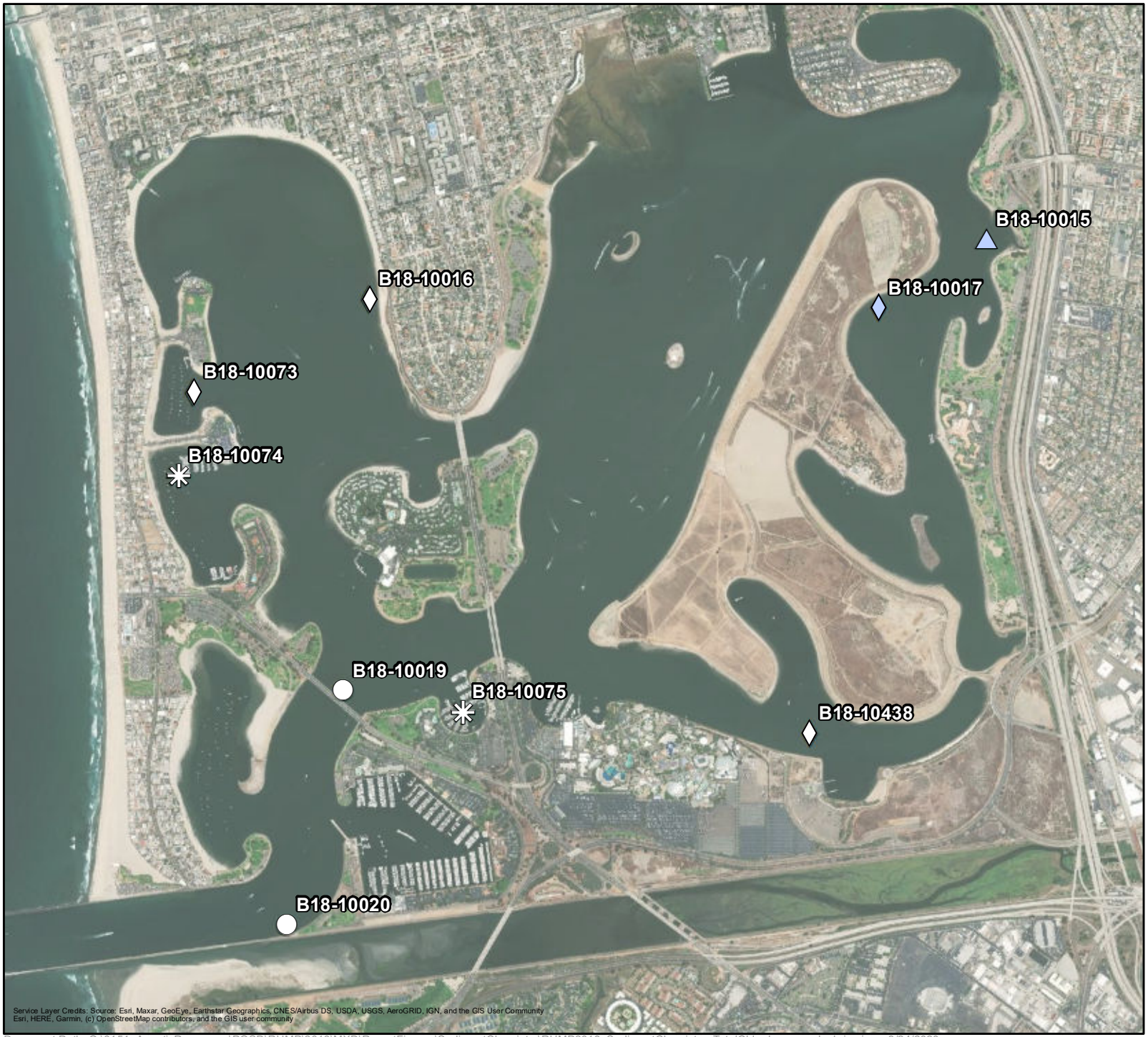
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalChlordanes.mxd, chris.nixon, 8/24/2020

Mission Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

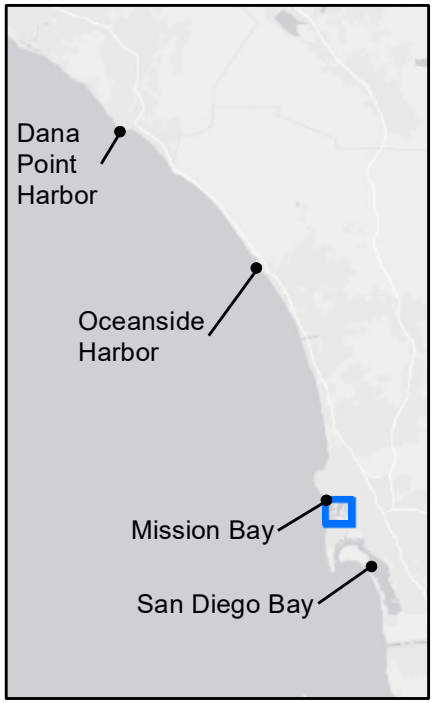
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

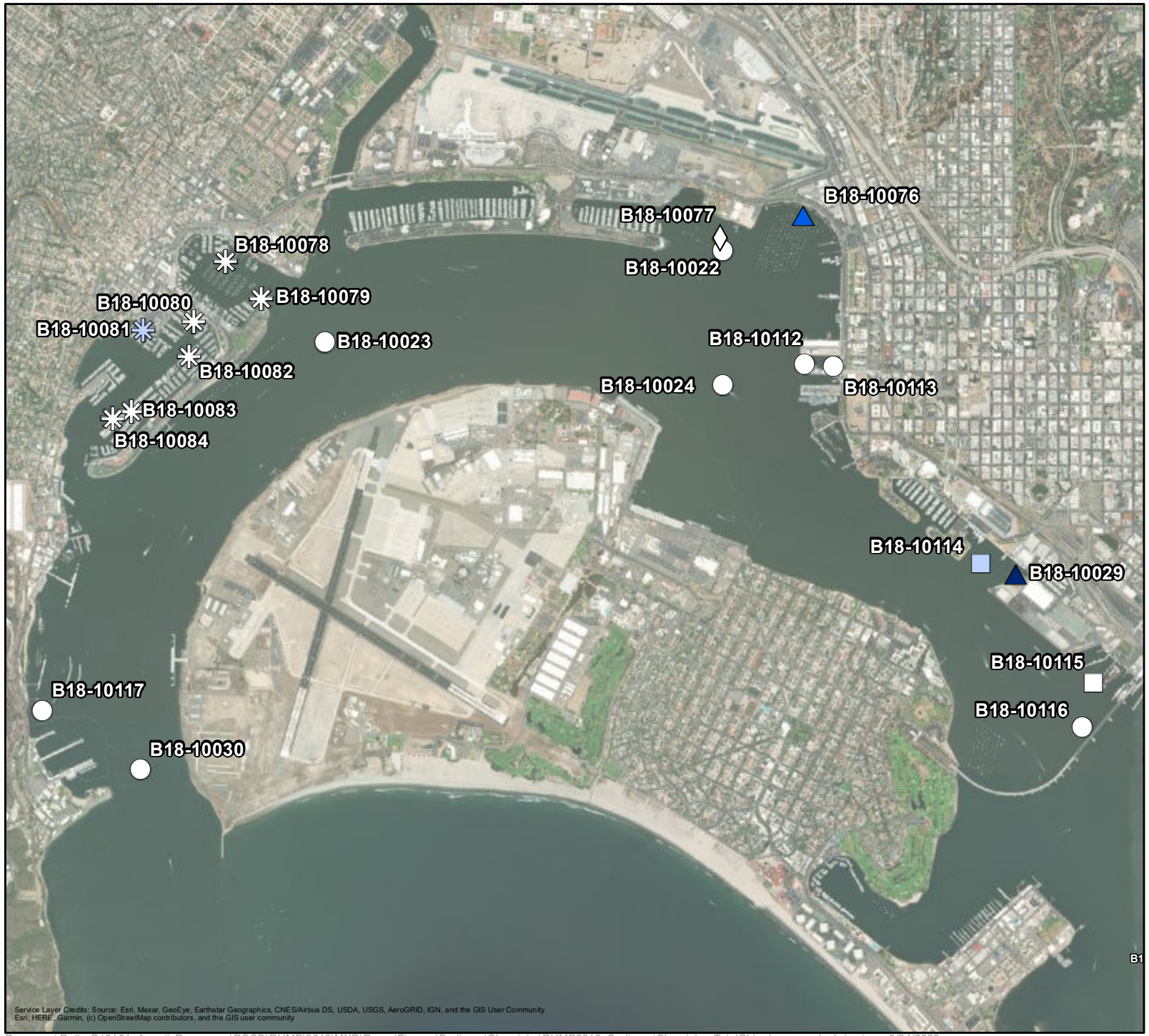
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalChlordanes.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

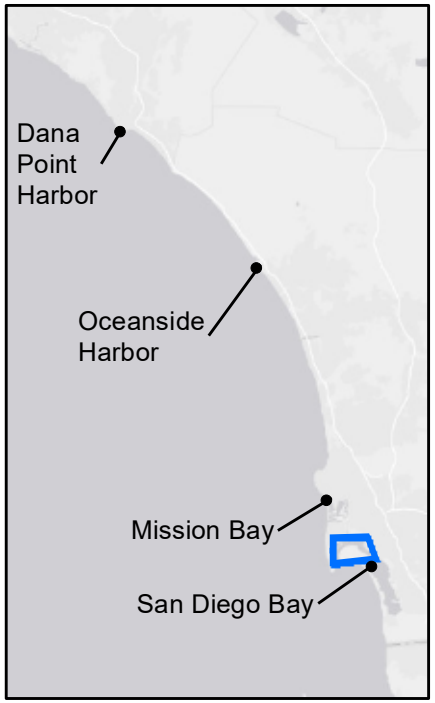
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

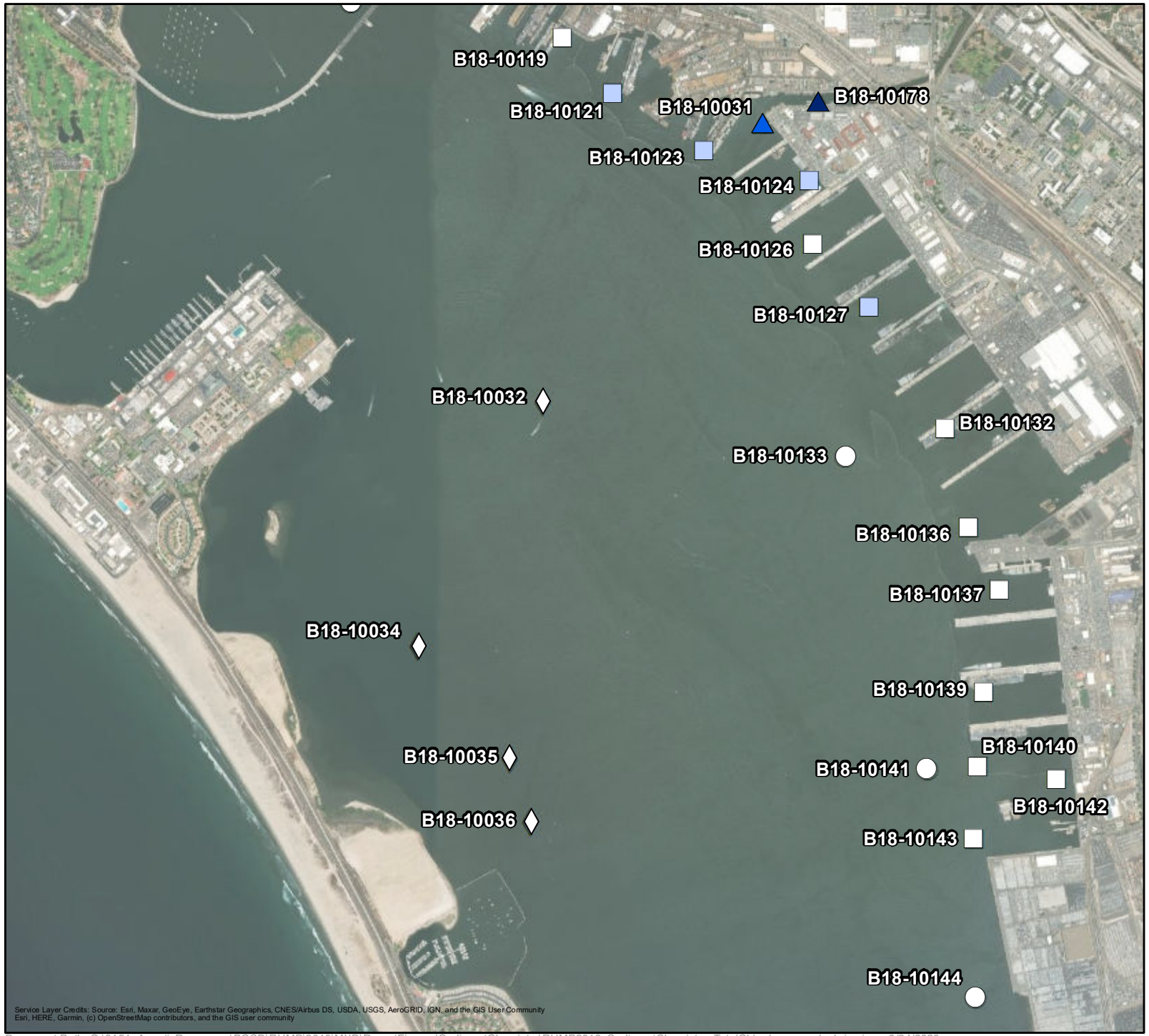
wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalChlordanes.mxd, chris.nixon, 8/24/2020

Central San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

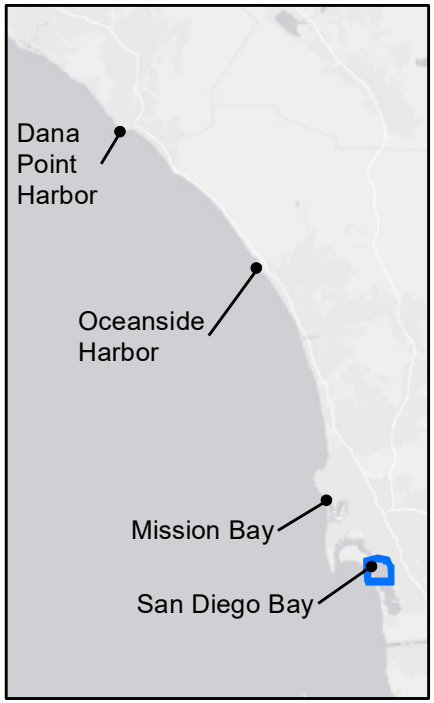
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

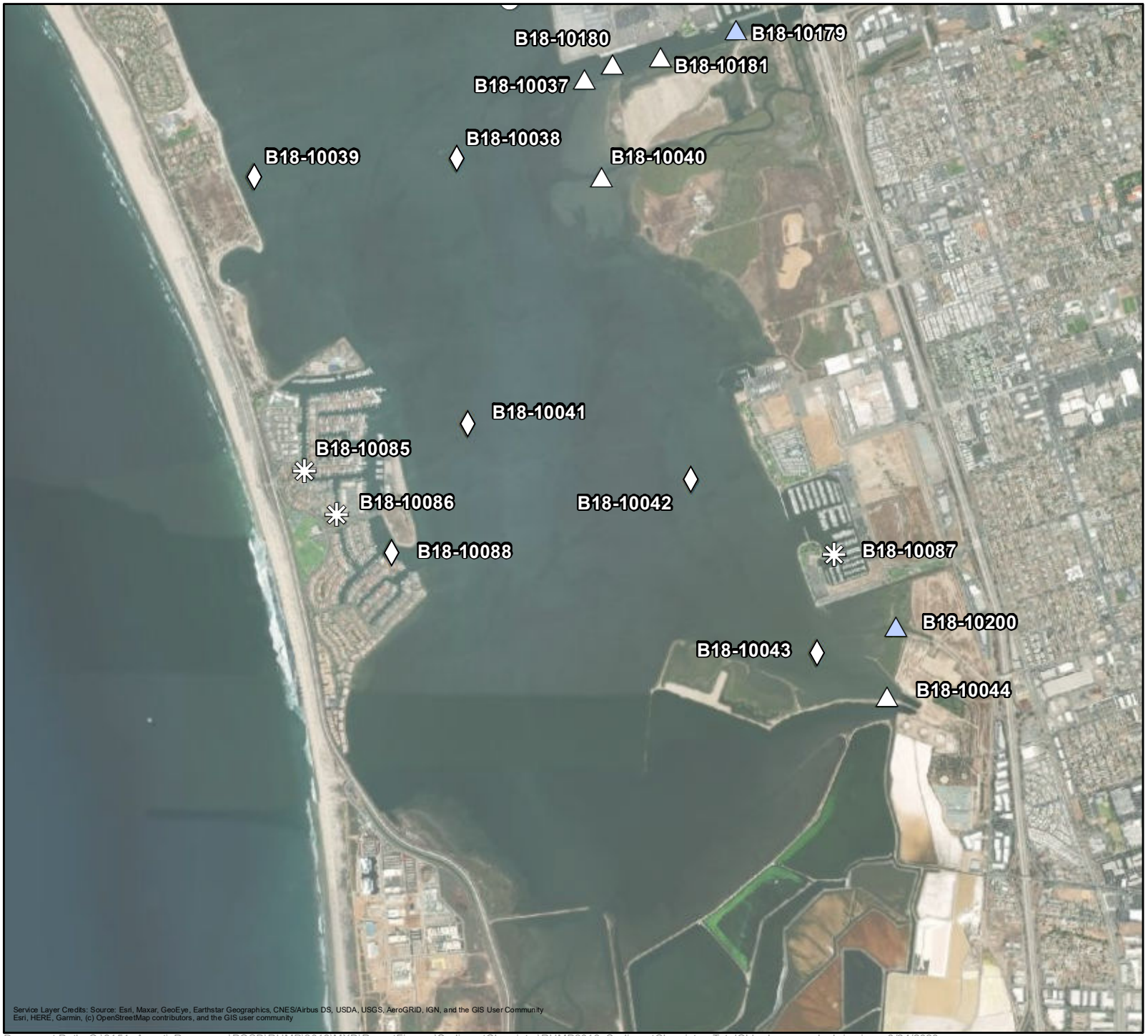
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalChlordanes.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

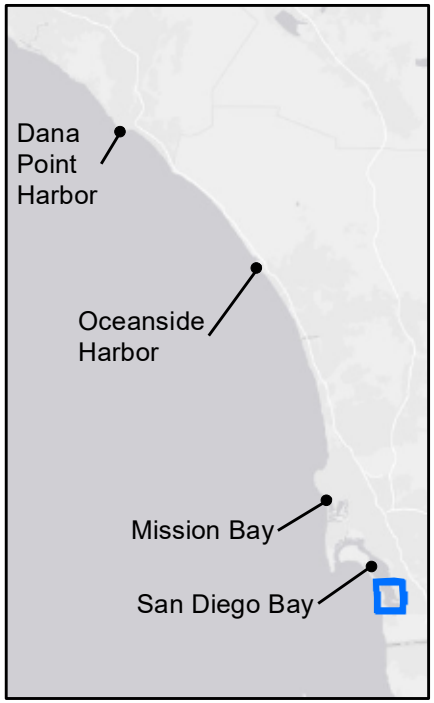
Total Chlordanes (µg/kg dry wt.)

- ND (<0.250)
- 0.251 - 7.82
- 7.83 - 15.4
- 15.5 - 46.8

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalChlordanes.mxd, chris.nixon, 8/24/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

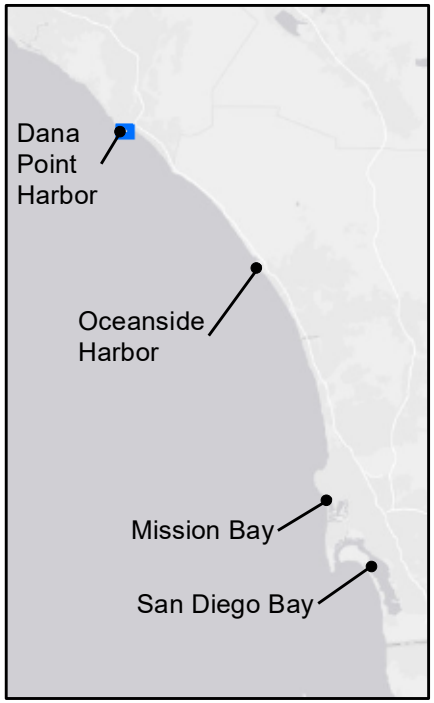
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

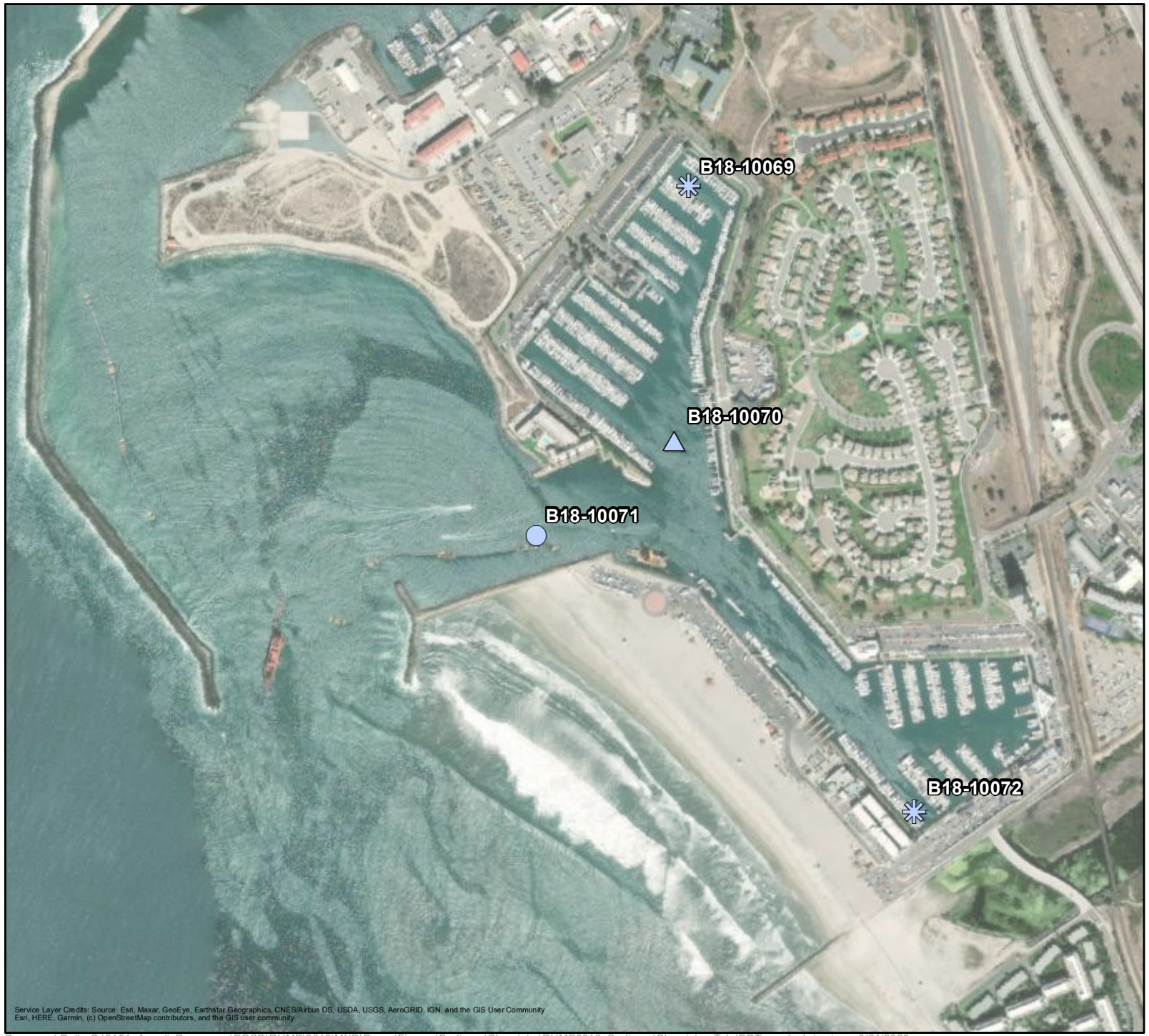
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalDDTs.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

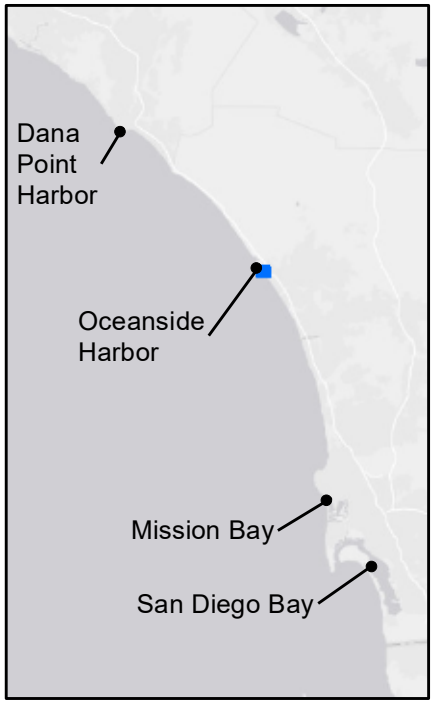
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

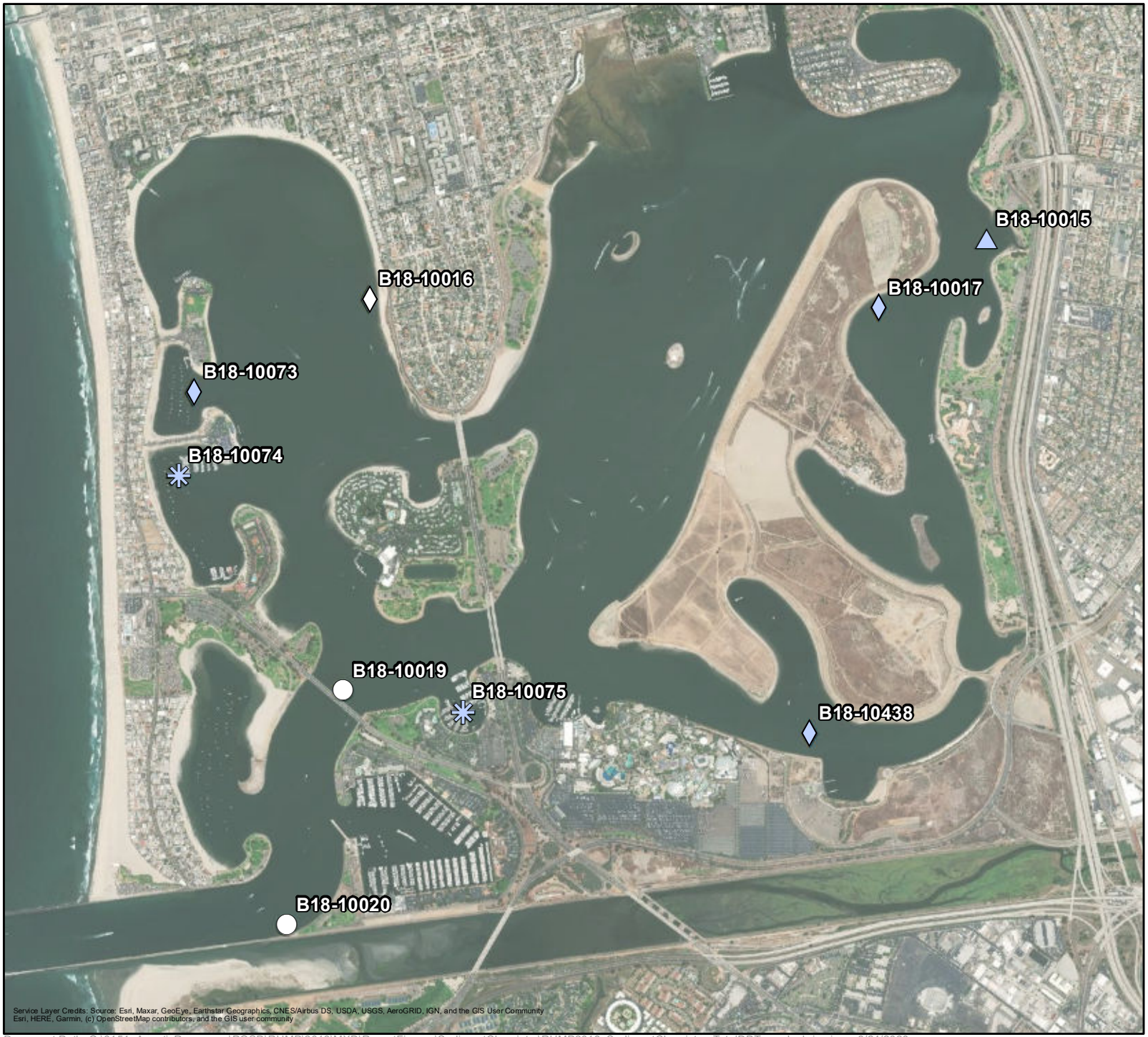
Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.15 0.3 km



Mission Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

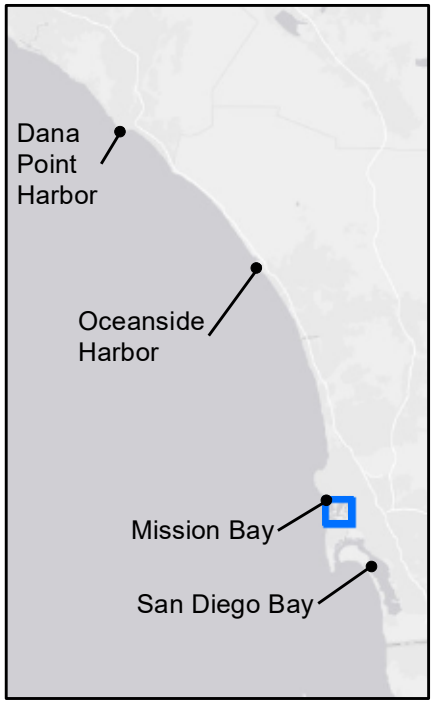
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

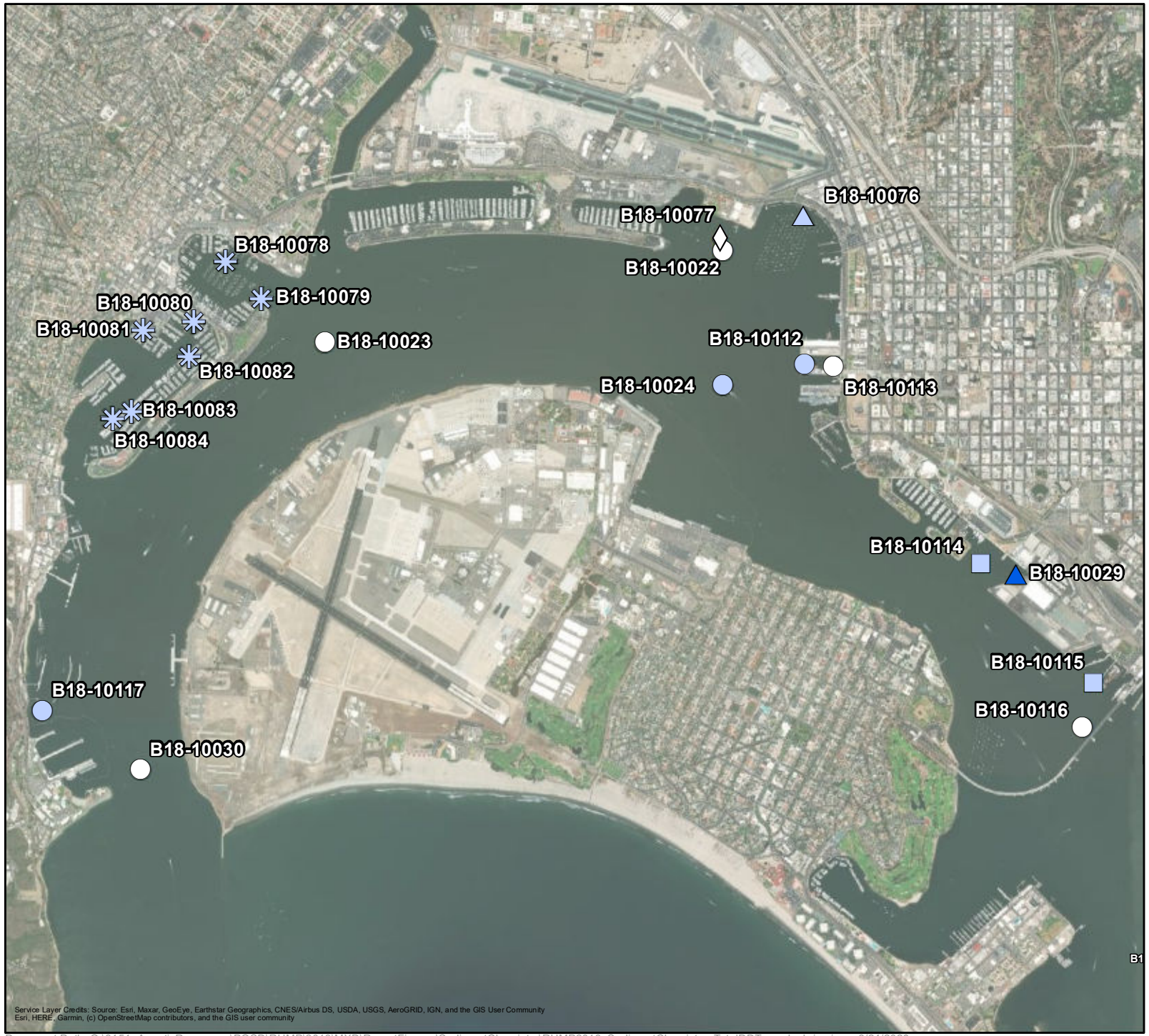
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalDDTs.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

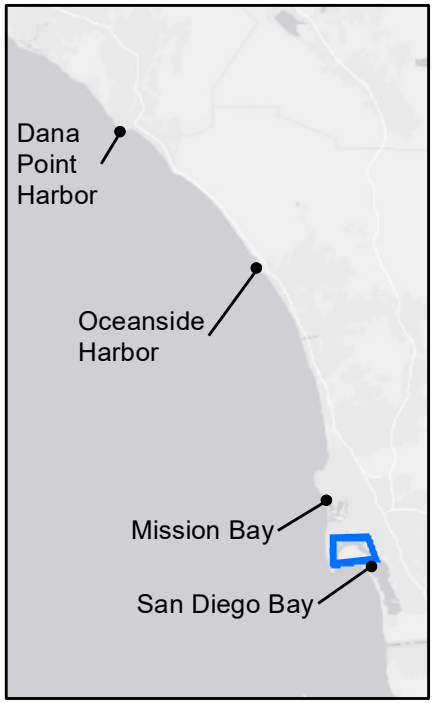
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.9 1.8 km



Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

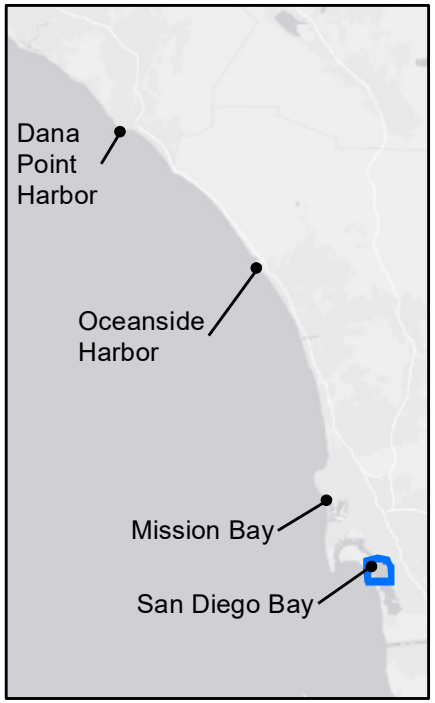
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

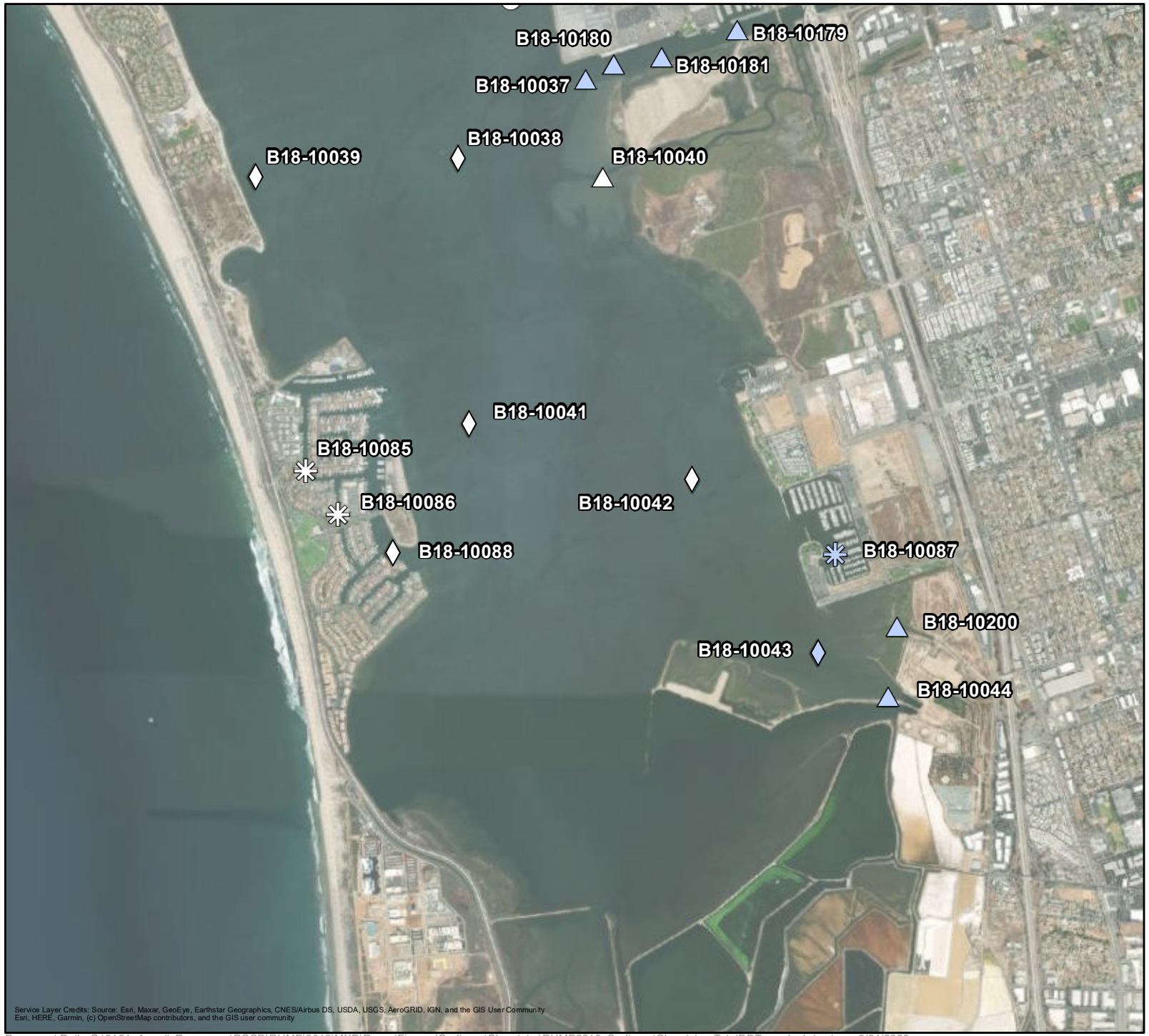
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalDDTs.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

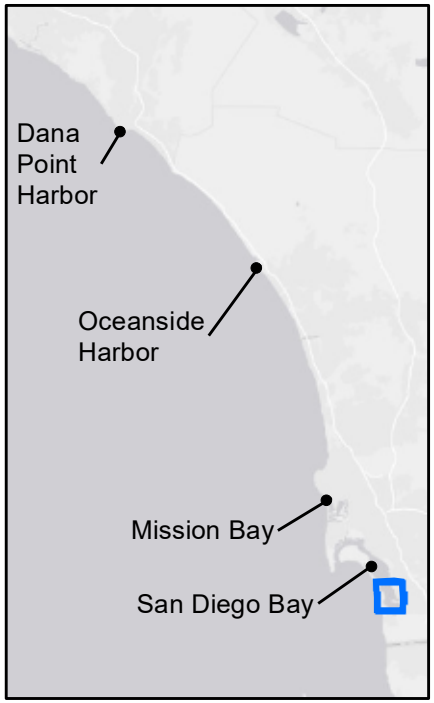
Total DDTs (µg/kg dry wt.)

- ND (<0.267)
- 0.268 - 9.17
- 9.18 - 18.1
- 18.2 - 221

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalDDTs.mxd, chris.nixon, 8/24/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

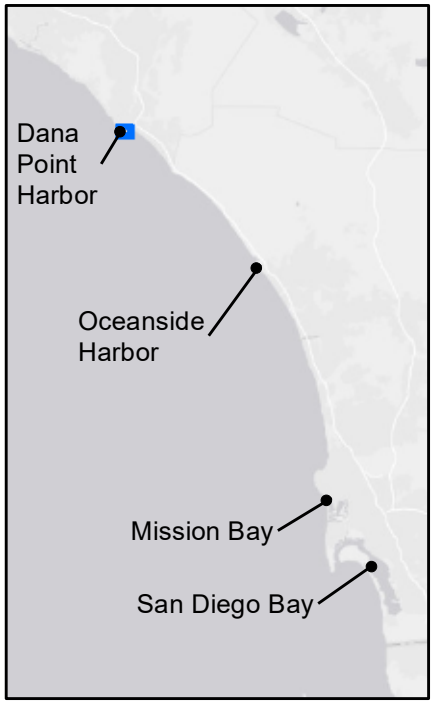
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

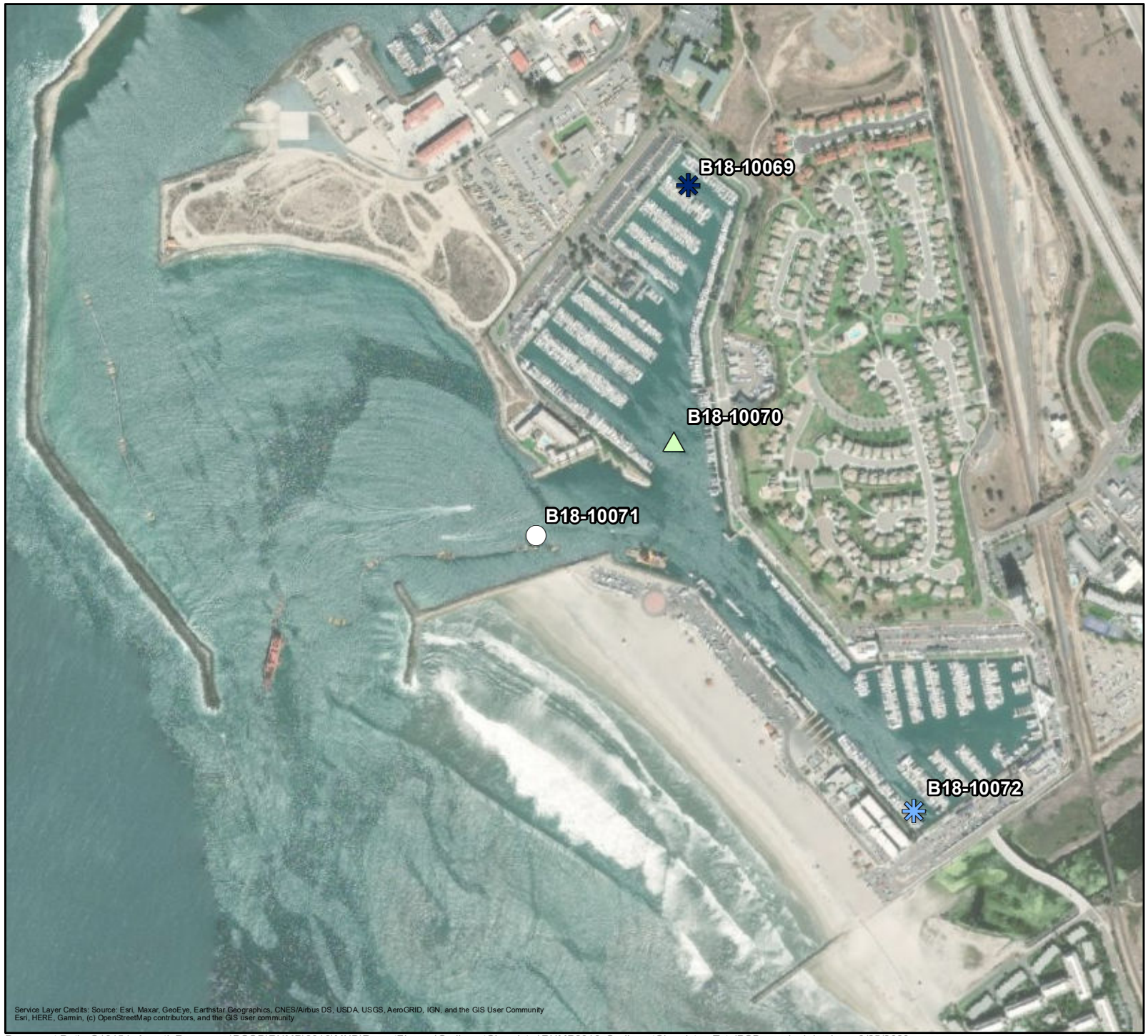
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPCBs.mxd, chris.nixon, 8/25/2020

Oceanside Harbor



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

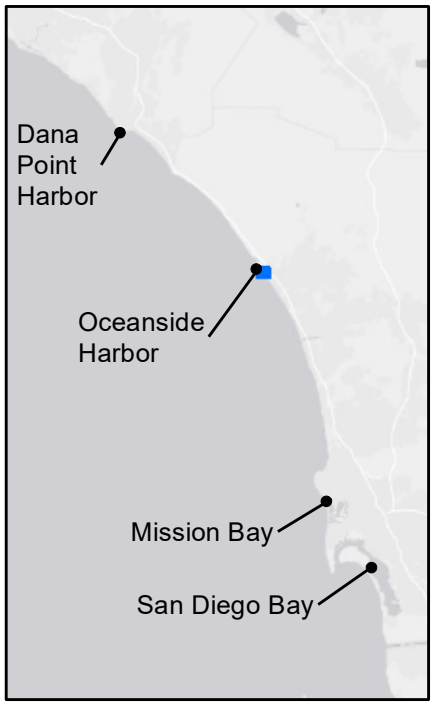
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

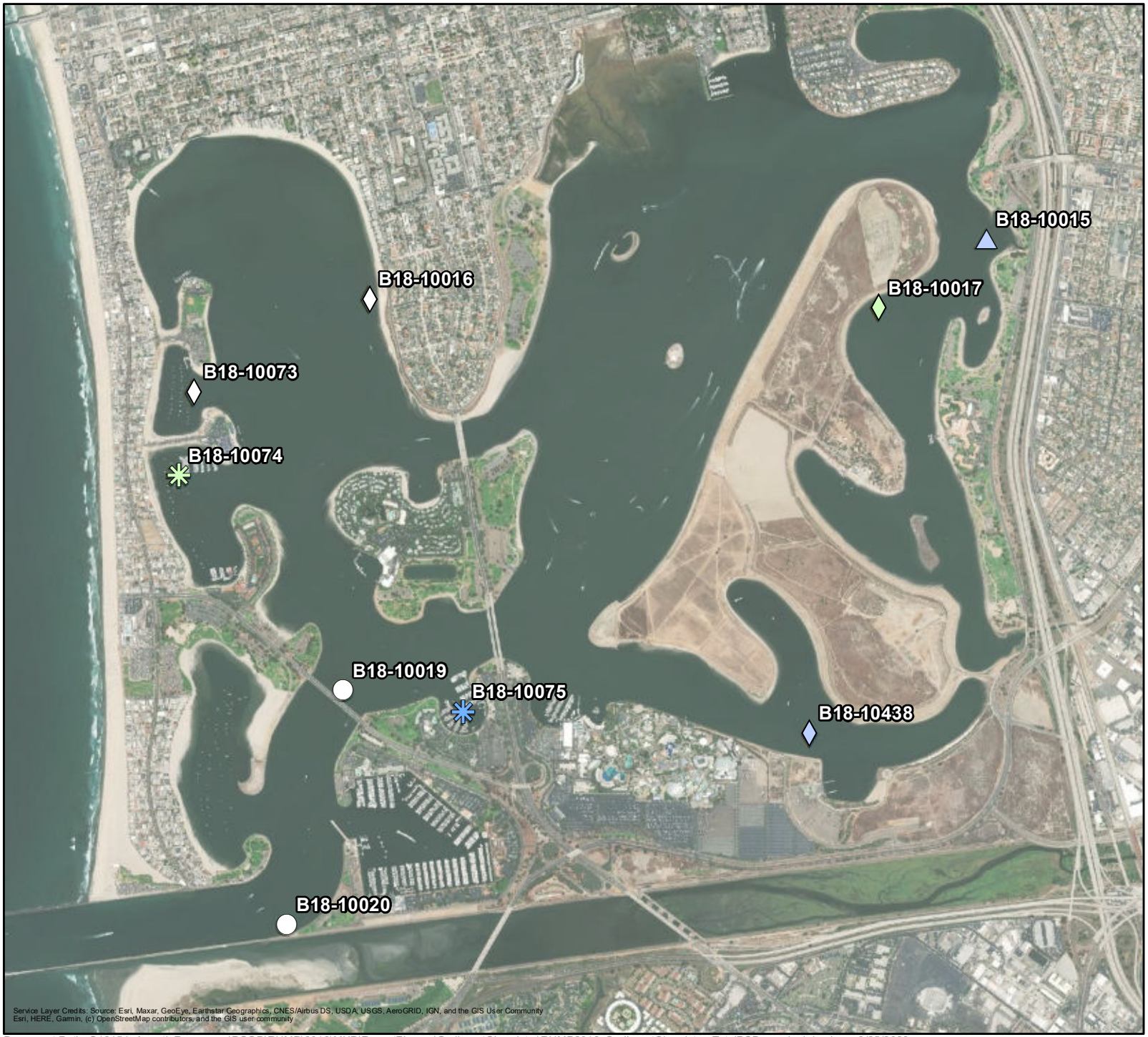
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPCBs.mxd, chris.nixon, 8/25/2020

Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

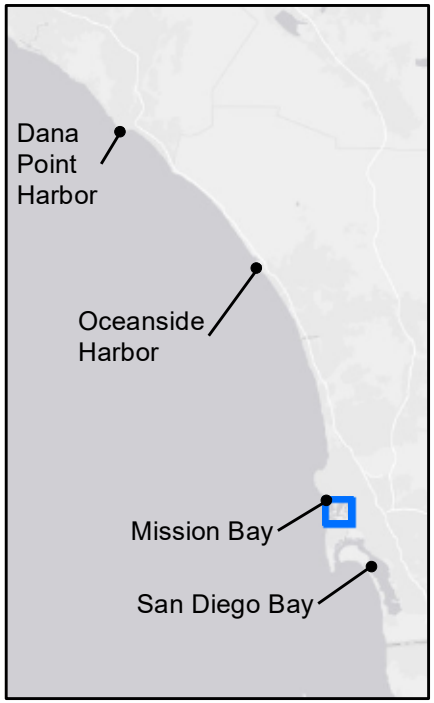
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

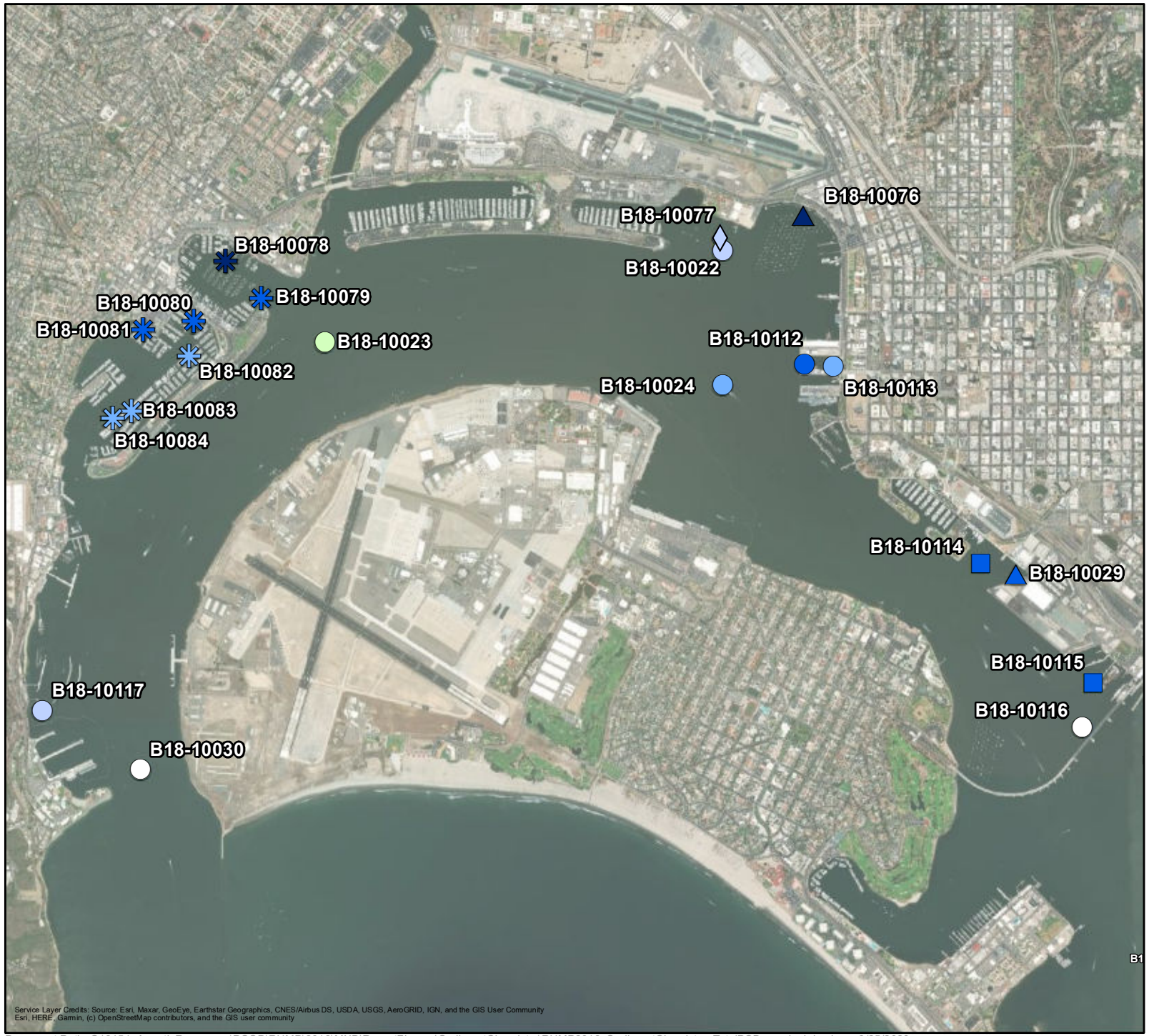
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPCBs.mxd, chris.nixon, 8/25/2020

North San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

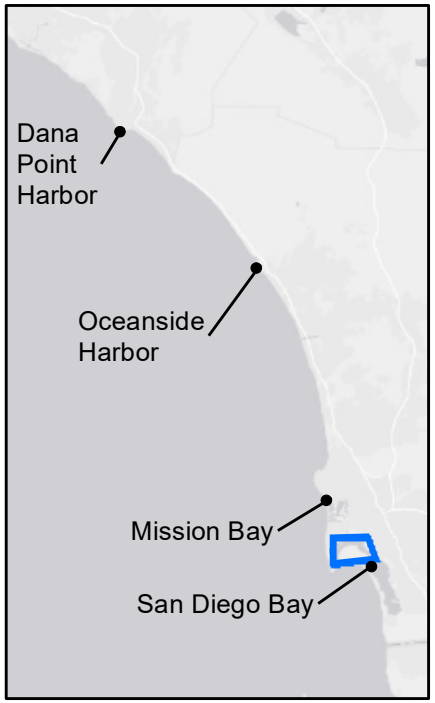
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPCBs.mxd, chris.nixon, 8/25/2020

Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

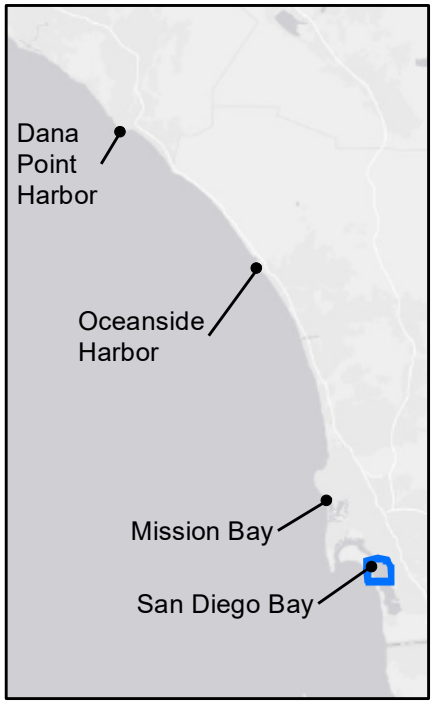
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

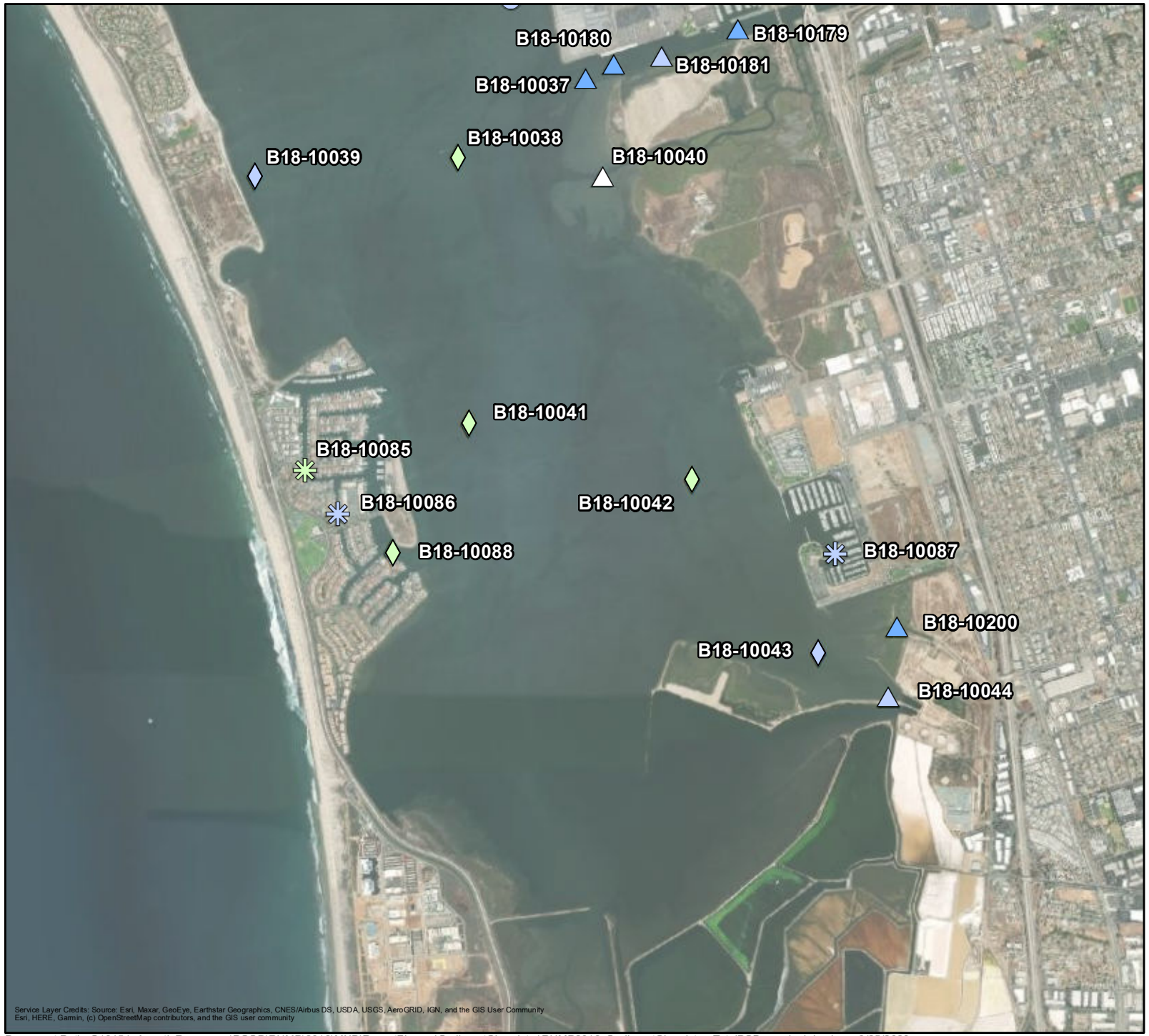
Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.5 1 km



South San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

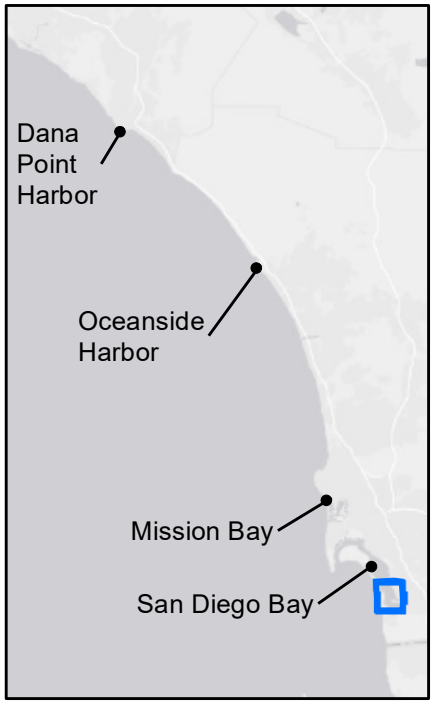
Total PCBs (µg/kg dry wt.)

- 0.00 - 1.02
- 1.03 - 2.42
- 2.43 - 5.63
- 5.64 - 17.4
- 17.5 - 83.1
- 83.2 - 5,350

Note: Concentration bins are based on the 10th, 25th, 50th, 75th, and 95th percentiles of the distribution.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPCBs.mxd, chris.nixon, 8/25/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

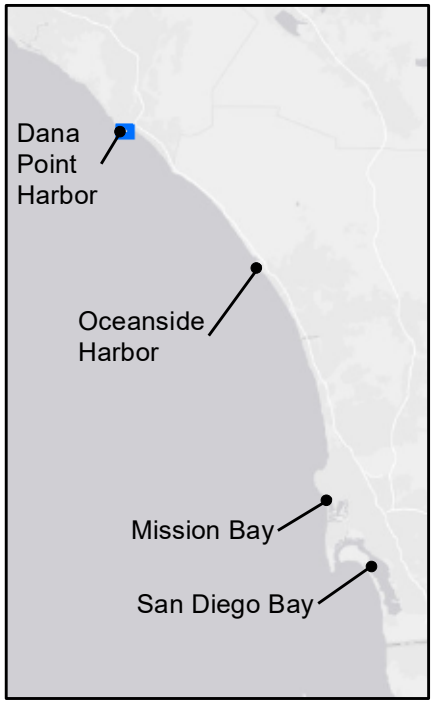
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

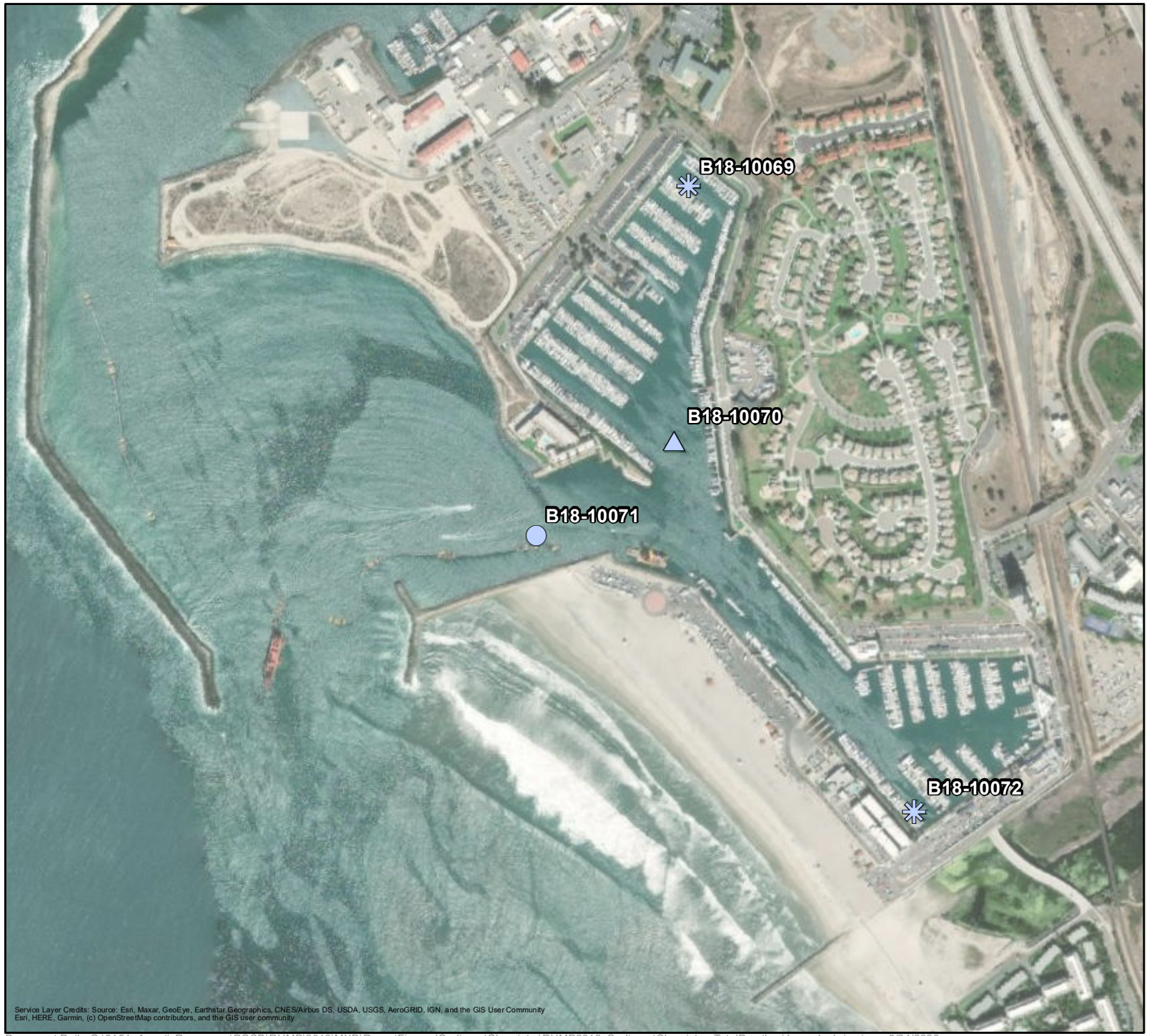
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPyrethroids.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

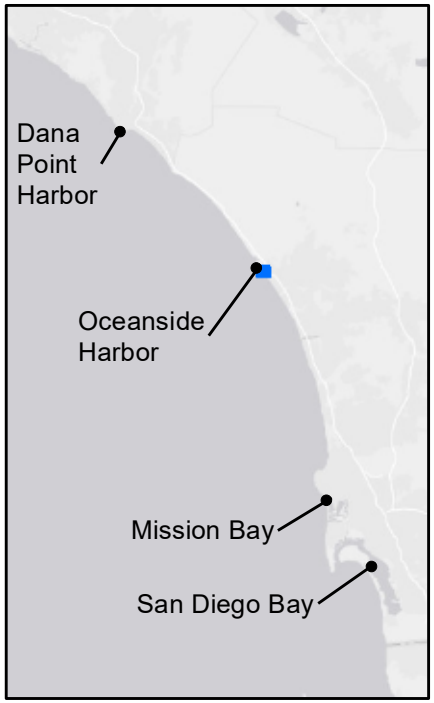
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

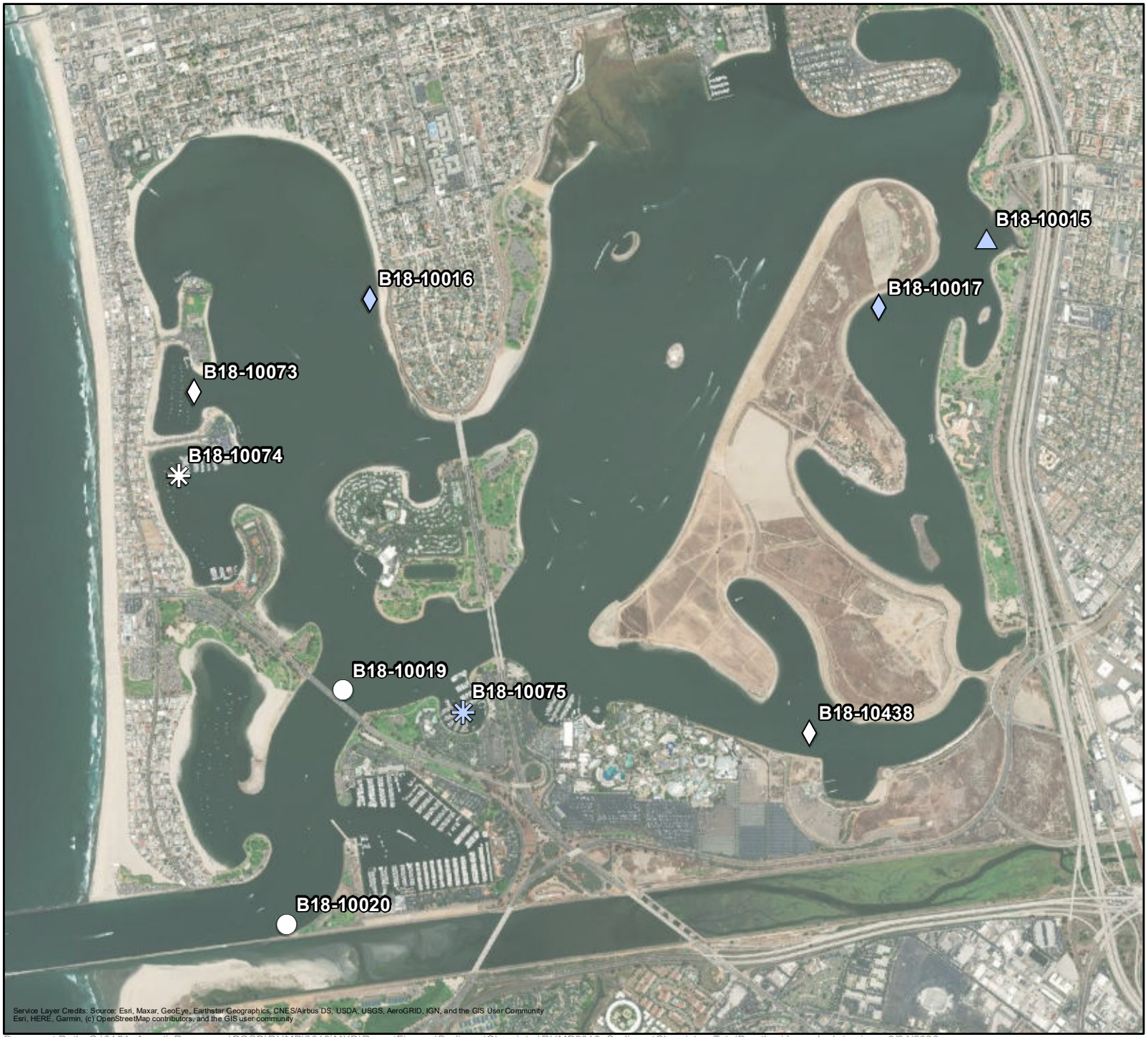
Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.15 0.3 km



Mission Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

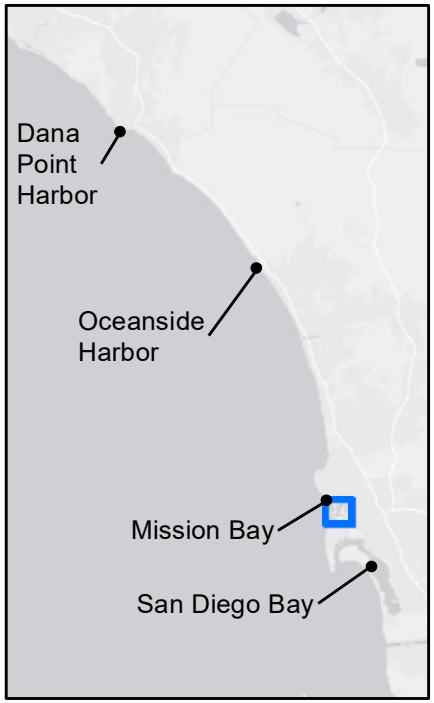
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

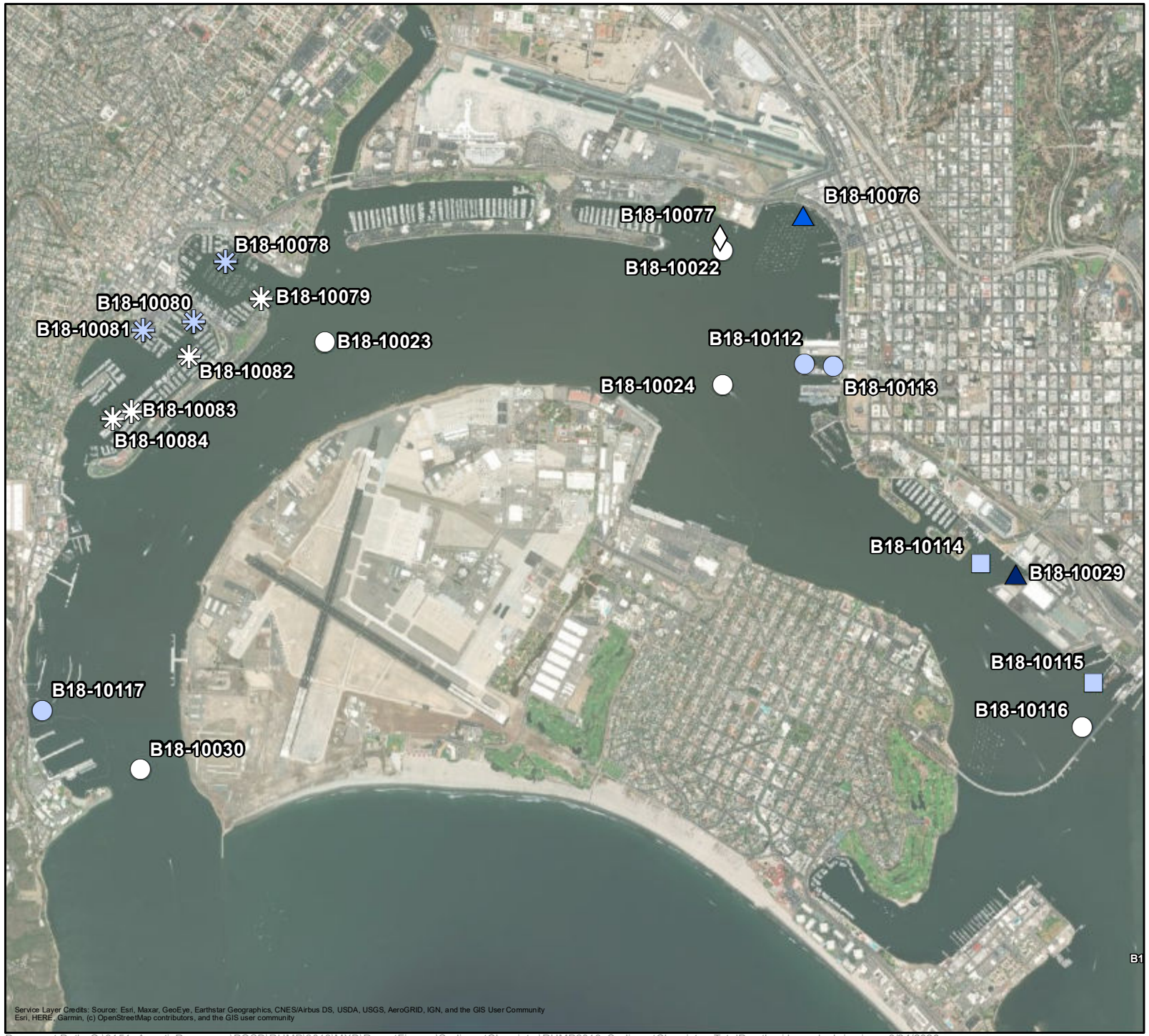
wood.

0 0.55 1.1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPyrethroids.mxd, chris.nixon, 8/24/2020

North San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

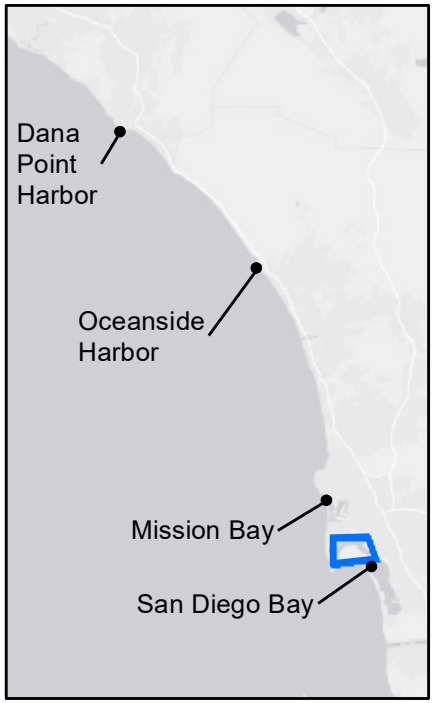
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

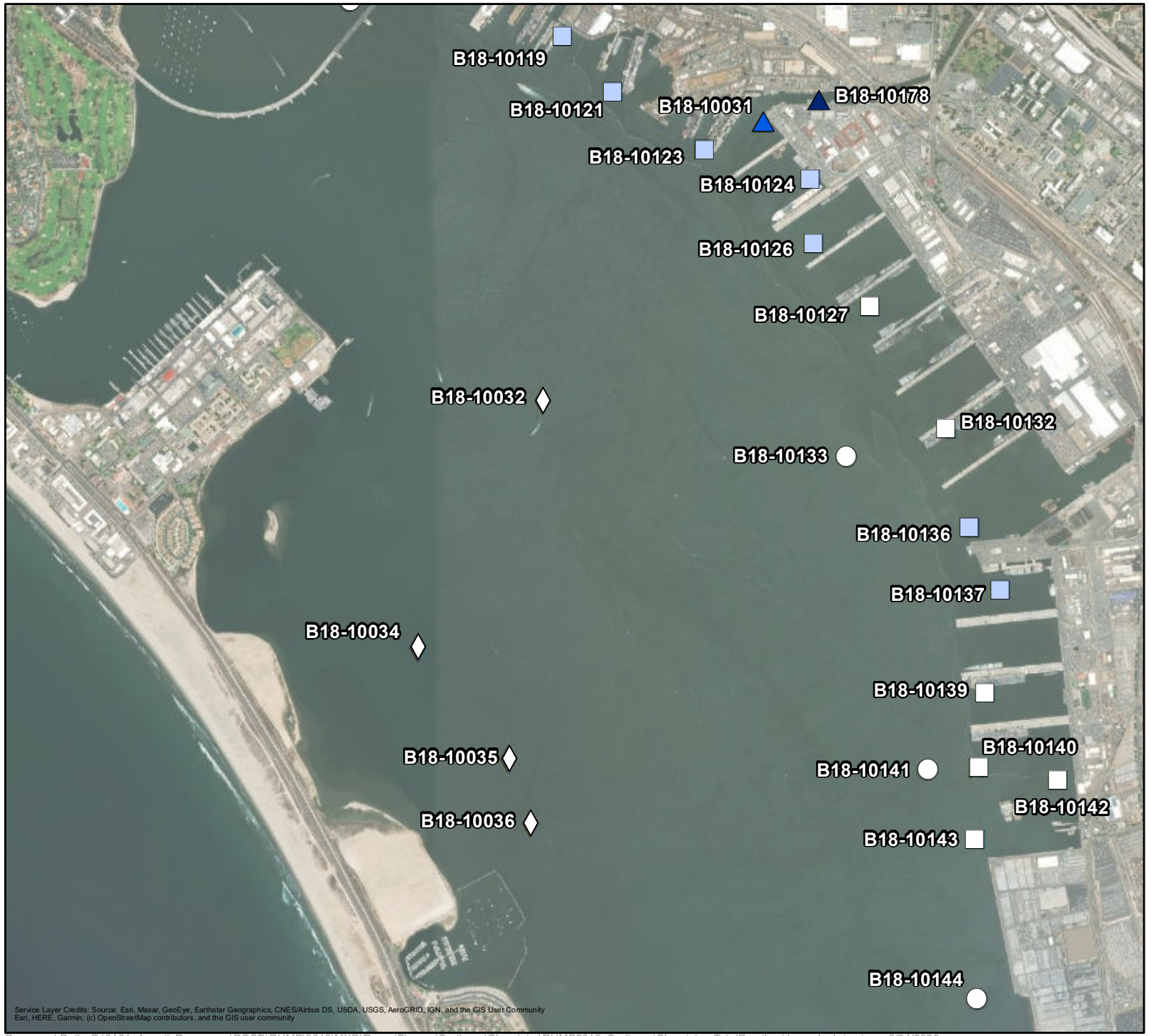
wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPyrethroids.mxd, chris.nixon, 8/24/2020

Central San Diego Bay



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

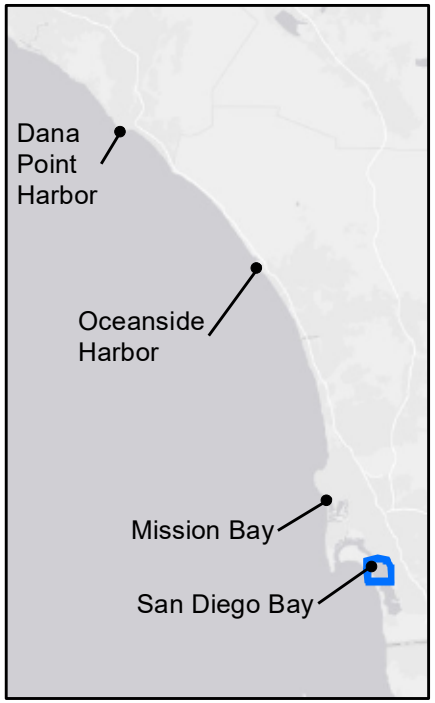
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

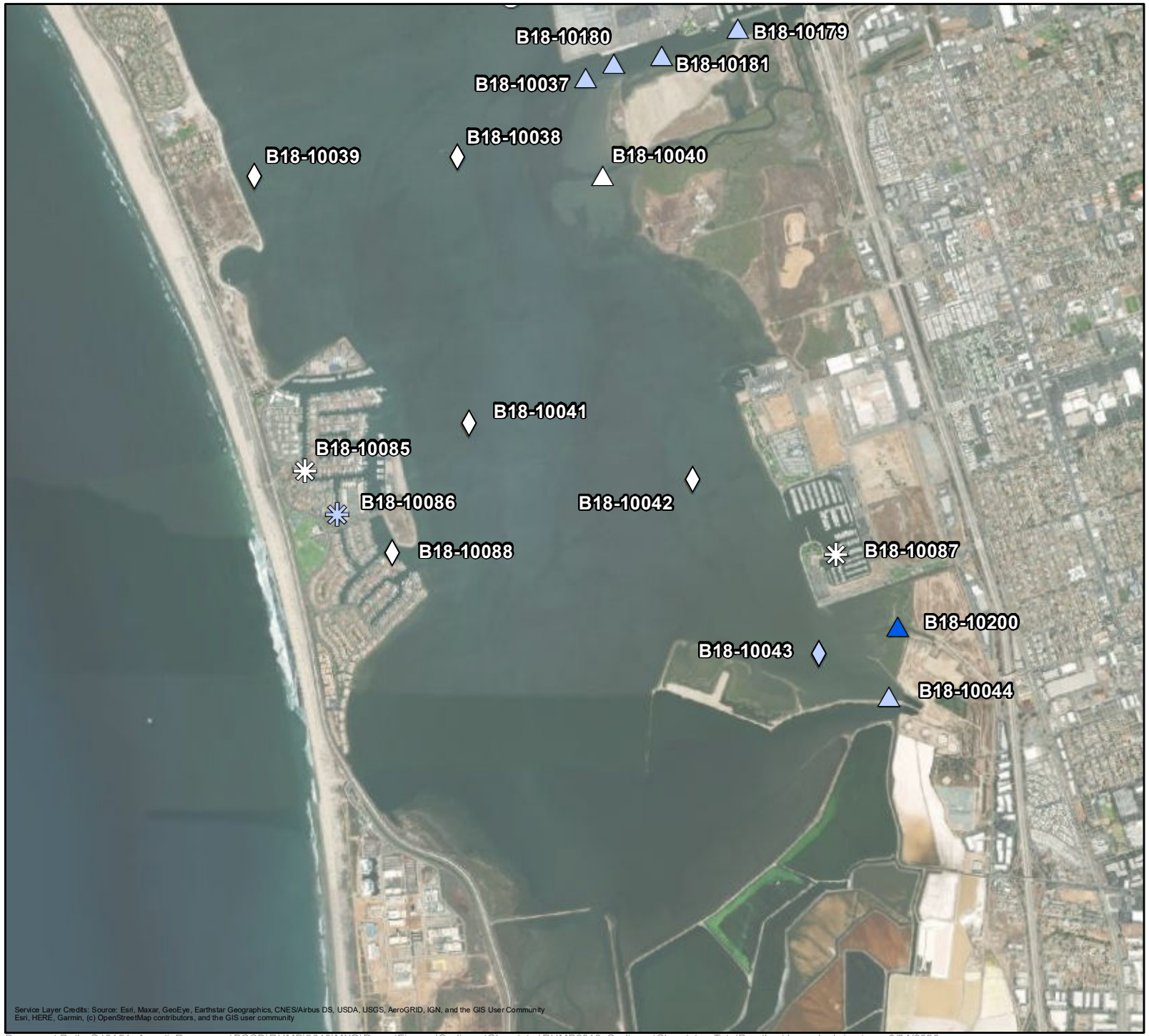
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPyrethroids.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

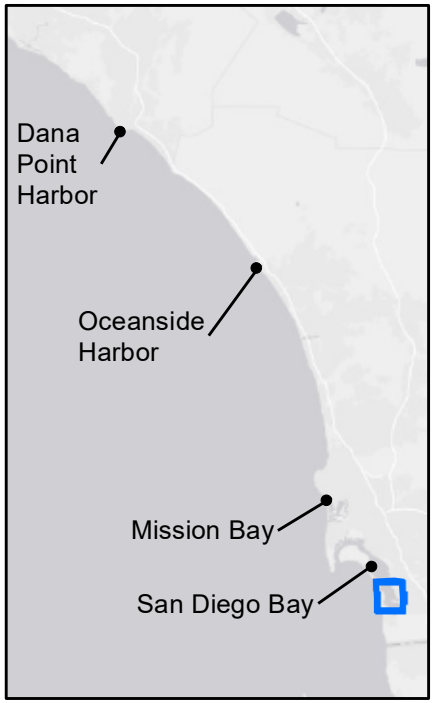
Total Pyrethroids (µg/kg dry wt.)

- ND (<0.280)
- 0.281 - 19.4
- 19.5 - 38.5
- 38.6 - 127

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPyrethroids.mxd, chris.nixon, 8/24/2020

Dana Point Harbor

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

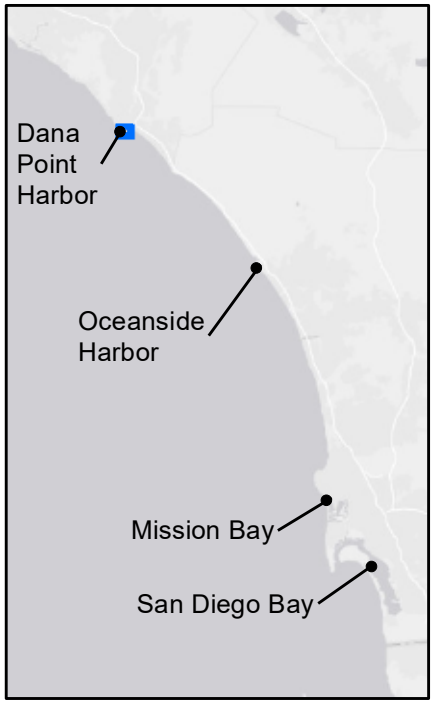
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

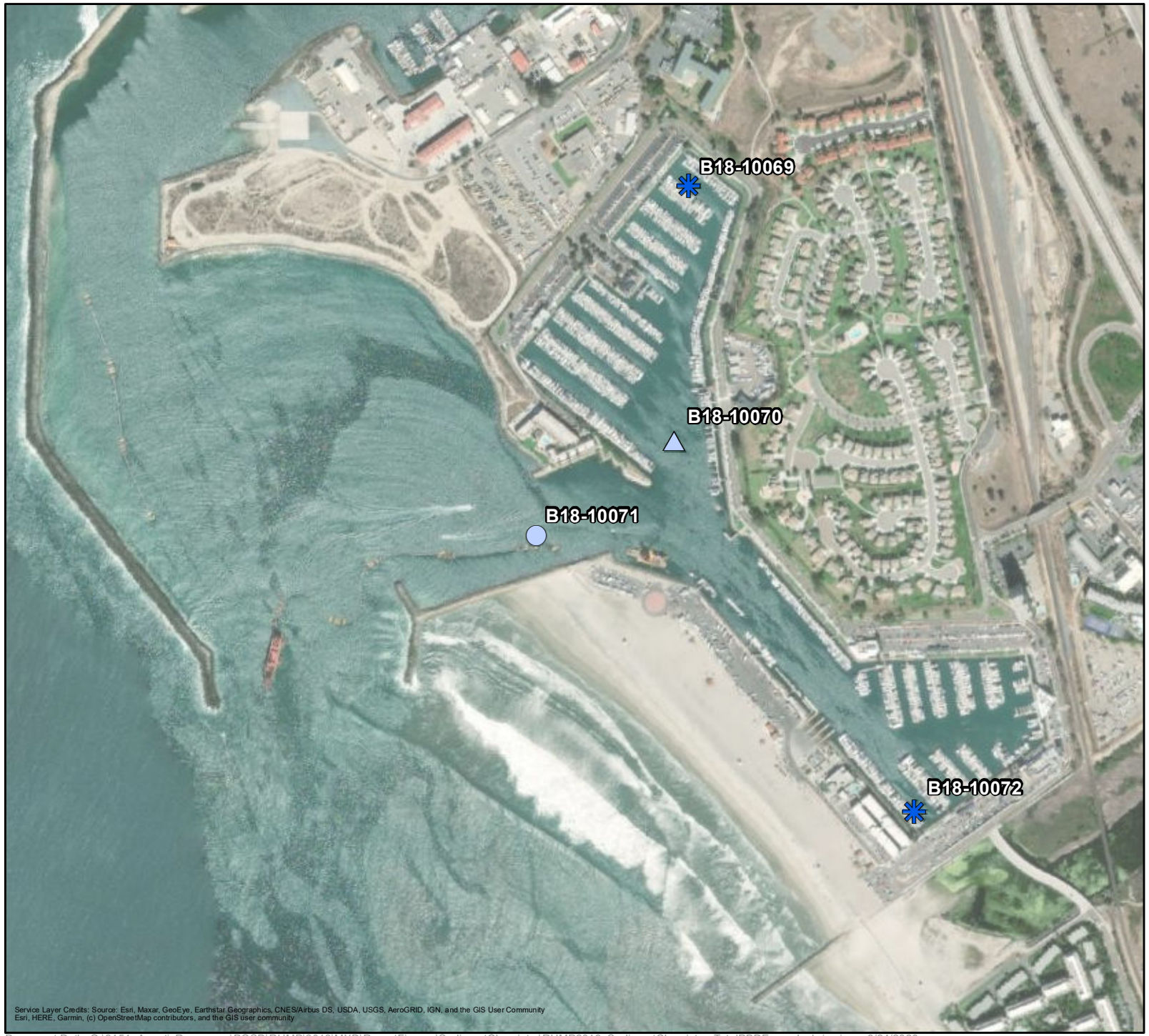
wood.

0 0.2 0.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPBDEs.mxd, chris.nixon, 8/24/2020

Oceanside Harbor



2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

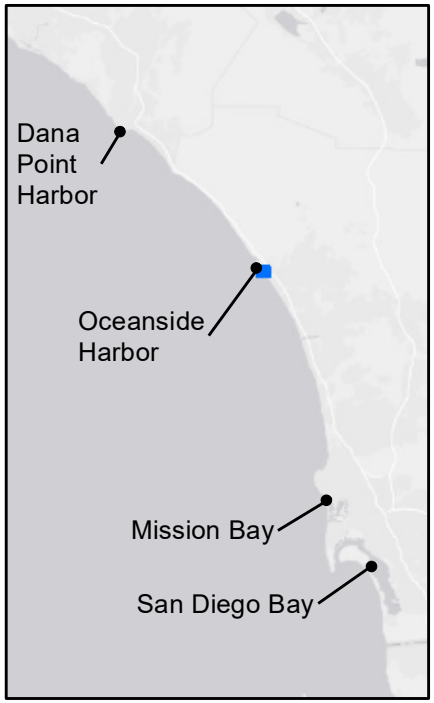
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

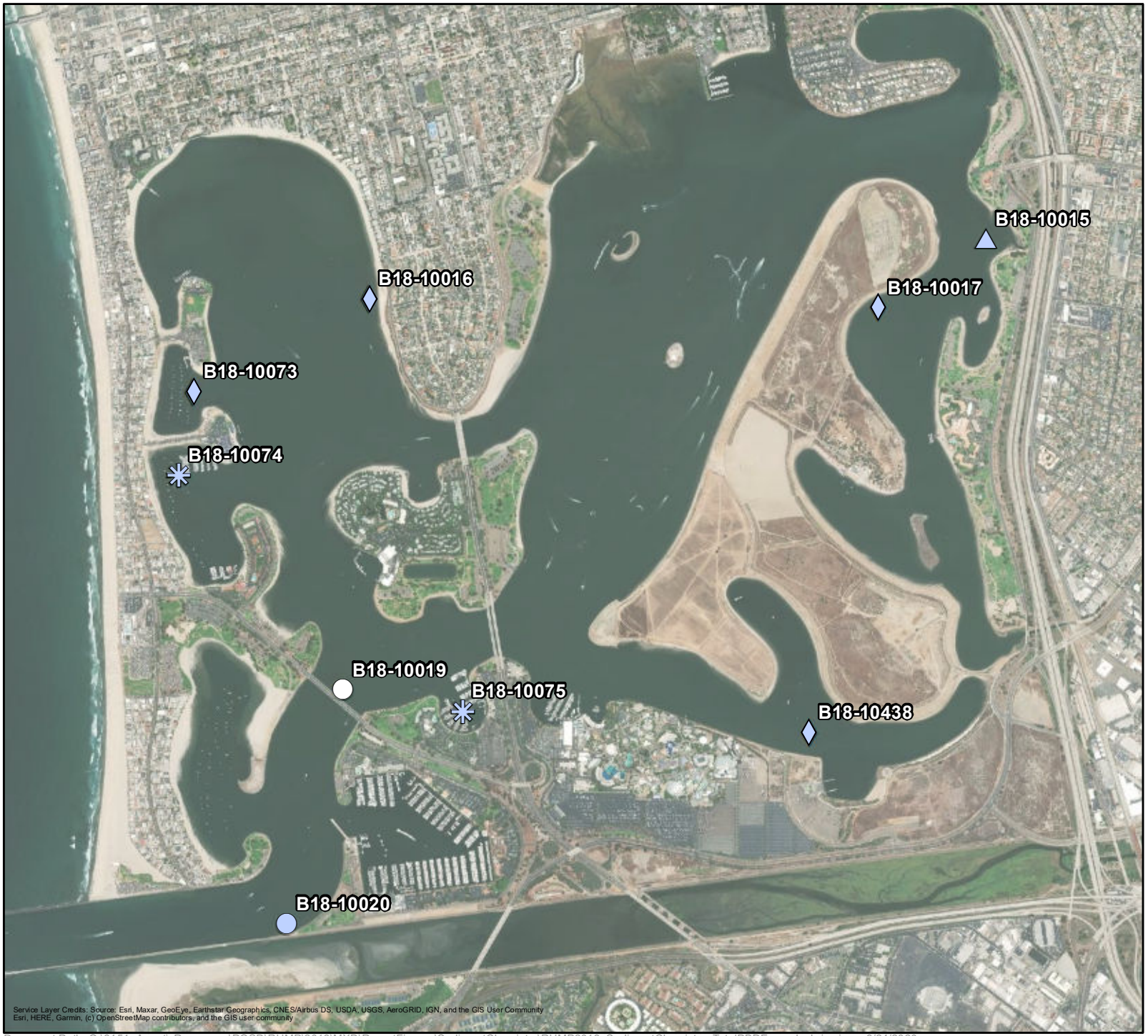
wood.

0 0.15 0.3 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPBDEs.mxd, chris.nixon, 8/24/2020

Mission Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

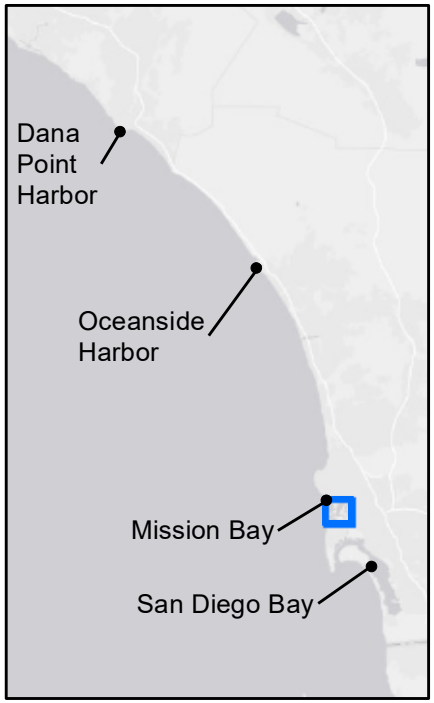
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

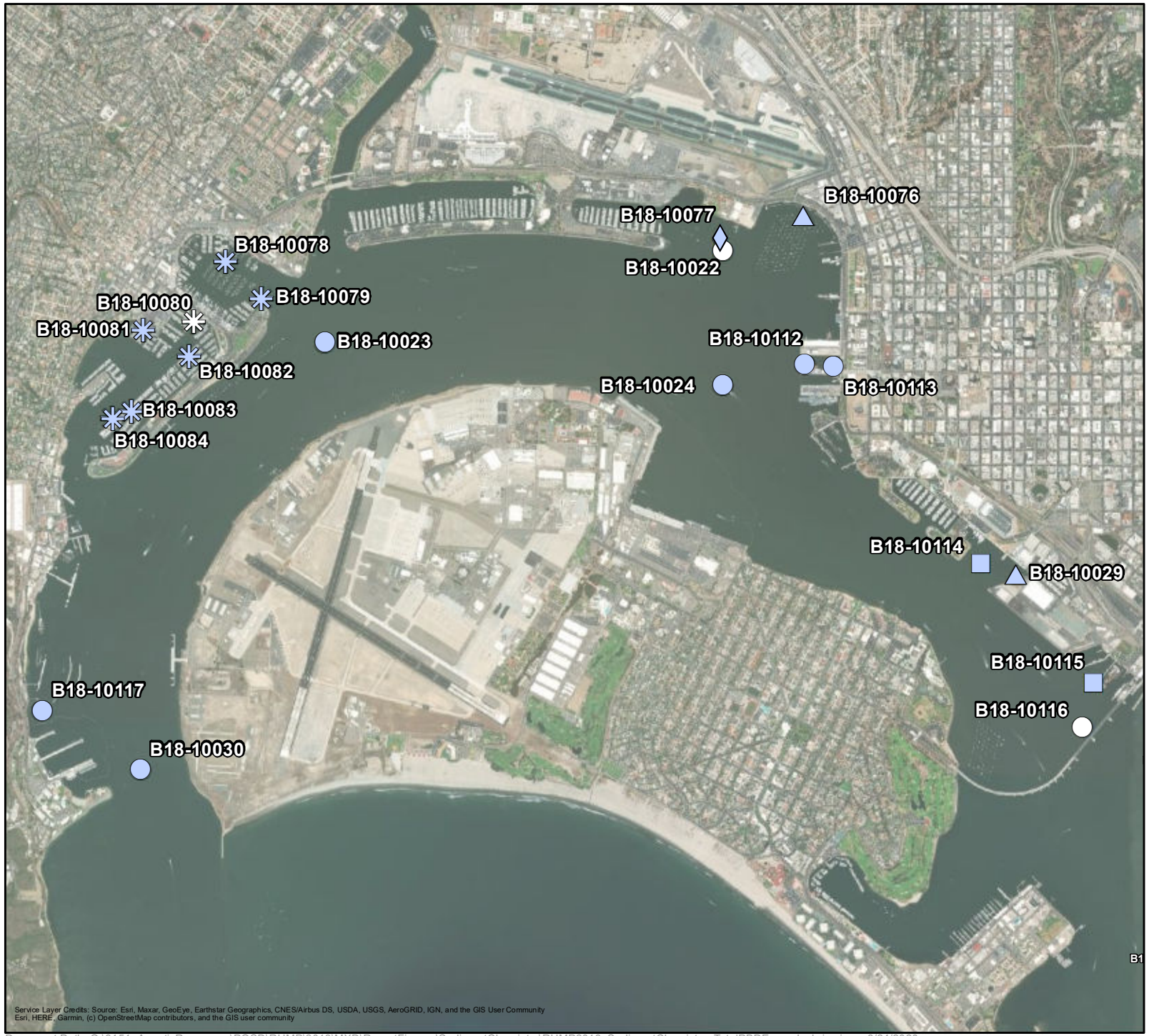
Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.55 1.1 km



North San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

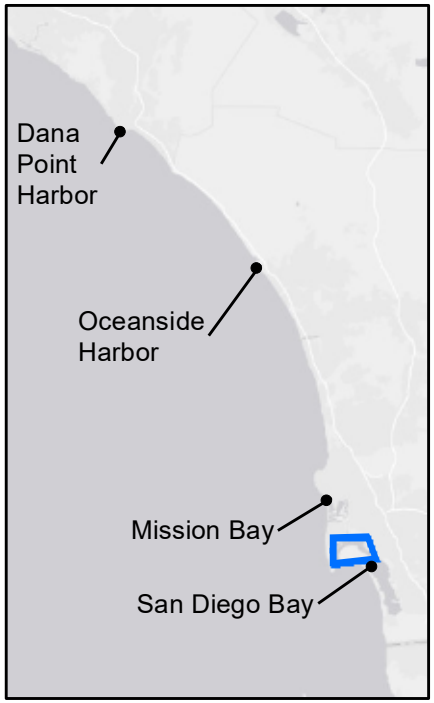
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.9 1.8 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPBDEs.mxd, chris.nixon, 8/24/2020

Central San Diego Bay

2018 RHMP SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

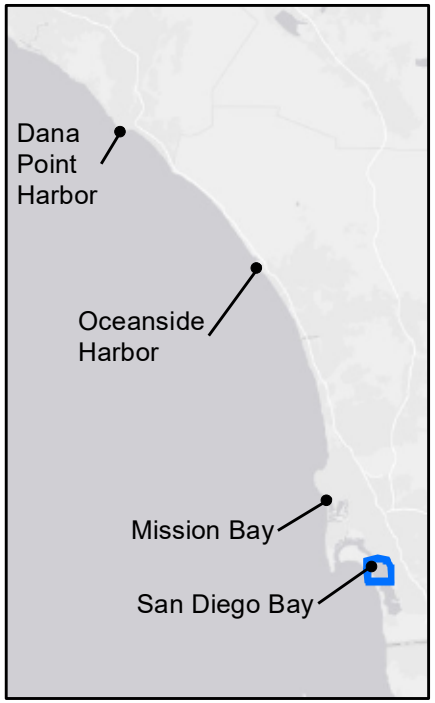
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

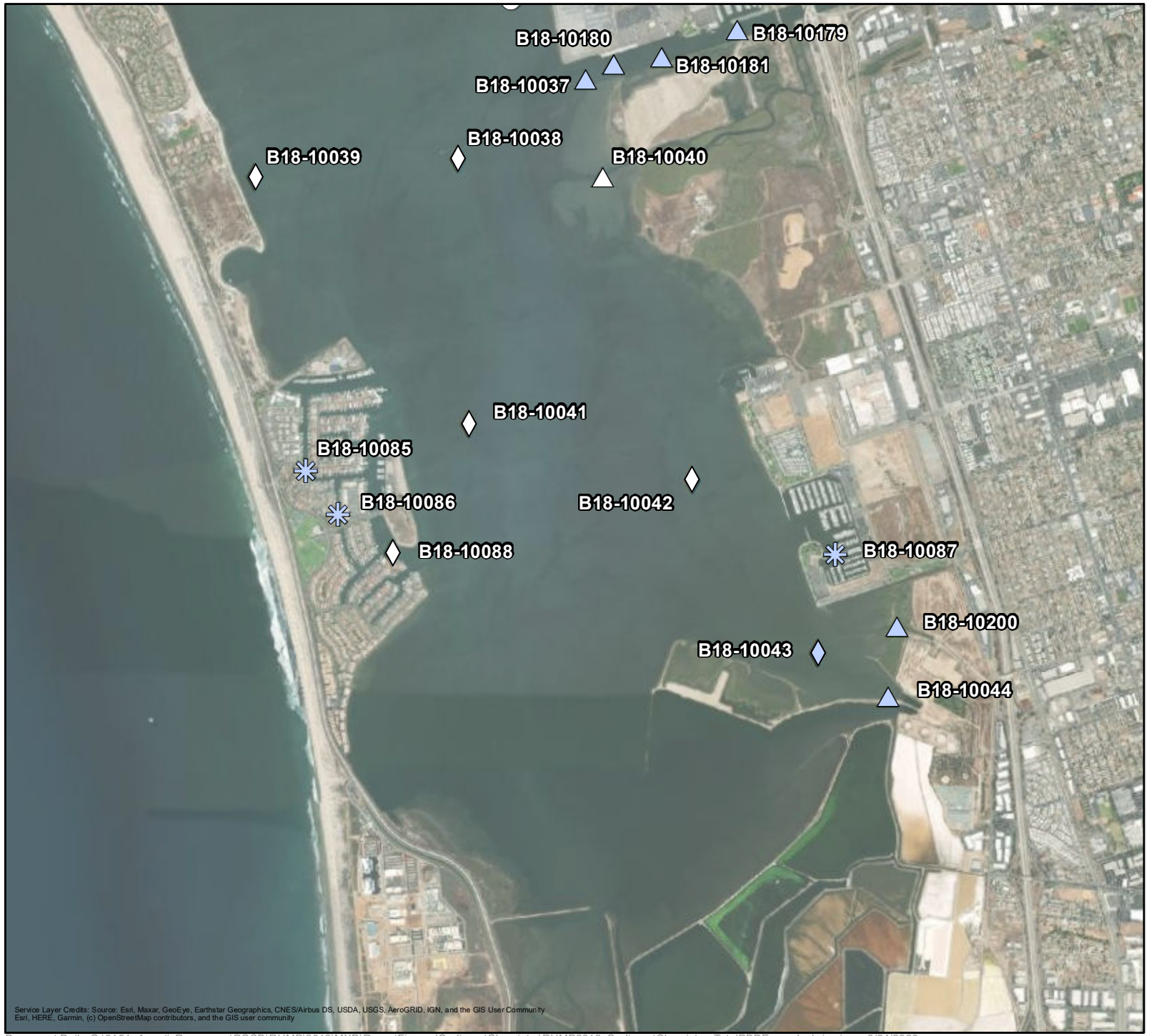
wood.

0 0.5 1 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPBDEs.mxd, chris.nixon, 8/24/2020

South San Diego Bay



2018 RHMP
SEDIMENT CHEMISTRY

Stratum

- Deep
- Freshwater-Influenced
- Industrial/ Port
- Marina
- Shallow

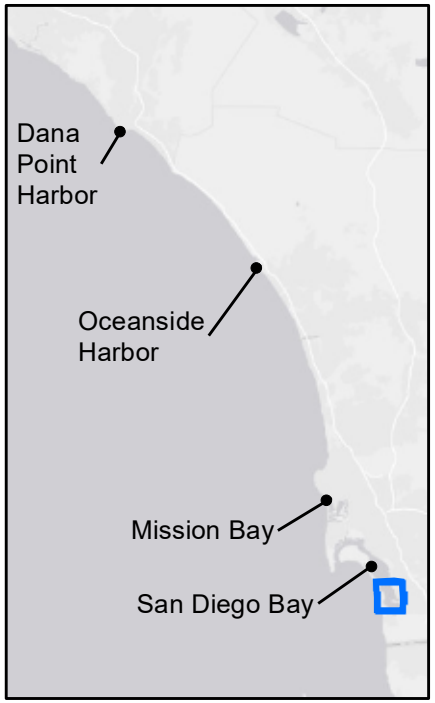
Total PBDEs (µg/kg dry wt.)

- ND (<0.050)
- 0.051 - 19.6
- 19.7 - 39.1
- 39.2 - 58.6

Note: Concentration bins are based on equal partitions of the distribution, excluding extreme values.

wood.

0 0.7 1.4 km



Document Path: Q:\3151_AquaticResources\POSD\RHMP\2018\MXD\ReportFigures\SedimentChemistry\RHMP2018_SedimentChemistry_TotalPBDEs.mxd, chris.nixon, 8/24/2020

Raw Data Reports (Physis)

Water

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-001

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/11/2018. A total of 5 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-001

2018 Regional Harbor Monitoring Program Total Samples: 5

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56370	B18-SW-EB		7/10/2018	6:30	DI Water
56371	B18-10065		7/10/2018	8:55	Seawater
56372	B18-10066		7/10/2018	10:20	Seawater
56373	B18-10067		7/10/2018	11:36	Seawater
56374	B18-10068		7/10/2018	13:25	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE AS P

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56370-R1	**B18-SW-EB**		**Matrix: DI Water**			**Sampled: 10-Jul-18**		**6:30**	**Received: 11-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39010	19-Jul-18	19-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	0.167	0.14	0.2	NA	J	O-16052	11-Jul-18	24-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38028	12-Jul-18	12-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	ND	0.14	0.2	NA		O-16052	24-Jul-18	24-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	ND	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	ND	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56371-R1	**B18-10065**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**8:55**	**Received: 11-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0153	0.007	0.03	NA	J	C-39010	19-Jul-18	19-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.34	0.14	0.2	NA		O-16052	11-Jul-18	24-Jul-18
MBAS	SM 5540 C	mg/L	0.0182	0.005	0.025	NA	J	C-38028	12-Jul-18	12-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0325	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.05	0.14	0.2	NA		O-16052	24-Jul-18	24-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0201	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.35	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56372-R1	**B18-10066**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**10:20**	**Received: 11-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0143	0.007	0.03	NA	J	C-39010	19-Jul-18	19-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.03	0.14	0.2	NA		O-16052	11-Jul-18	24-Jul-18
MBAS	SM 5540 C	mg/L	0.0145	0.005	0.025	NA	J	C-38028	12-Jul-18	12-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0183	0.01	0.02	NA	J,1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.35	0.14	0.2	NA		O-16052	24-Jul-18	24-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0207	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.05	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56373-R1	**B18-10067**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**11:36**	**Received: 11-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39010	19-Jul-18	19-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.3	0.14	0.2	NA		O-16052	11-Jul-18	24-Jul-18
MBAS	SM 5540 C	mg/L	0.0145	0.005	0.025	NA	J	C-38028	12-Jul-18	12-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0105	0.01	0.02	NA	J,1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.32	0.14	0.2	NA		O-16052	24-Jul-18	24-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0214	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	9.25	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56374-R1	**B18-10068**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**13:25**	**Received: 11-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0239	0.007	0.03	NA	J	C-39010	19-Jul-18	19-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.22	0.14	0.2	NA		O-16052	11-Jul-18	24-Jul-18
MBAS	SM 5540 C	mg/L	0.0255	0.005	0.025	NA		C-38028	12-Jul-18	12-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0266	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.33	0.14	0.2	NA		O-16052	24-Jul-18	24-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0236	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	13.1	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56370-R1	**B18-SW-EB**			**Matrix: DI Water**		**Sampled: 10-Jul-18**		**6:30**	**Received: 11-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Total		E-16067	07-Aug-18	10-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16067	07-Aug-18	10-Oct-18
Antimony (Sb)	EPA 1640	µg/L	ND	0.01	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.0125	0.01	0.015	Dissolved	J	E-16067	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Aug-18	10-Oct-18
Arsenic (As)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Aug-18	10-Oct-18
Barium (Ba)	EPA 200.8	µg/L	ND	0.25	0.5	Total		E-16103	07-Aug-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	ND	0.25	0.5	Dissolved		E-16103	07-Aug-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0242	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.00412	0.0025	0.005	Dissolved	J	E-16067	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Total		E-16067	07-Aug-18	10-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.0762	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	0.113	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Total		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	2.75	0.5	1	Dissolved		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0276	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0101	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Manganese (Mn)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	0.034	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.0206	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0303	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.0191	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	ND	0.035	0.07	Total		E-16067	07-Aug-18	10-Oct-18
Titanium (Ti)	EPA 1640	µg/L	0.0443	0.035	0.07	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	ND	0.02	0.04	Total		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	ND	0.02	0.04	Dissolved		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.98	0.0025	0.005	Total		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	2.12	0.0025	0.005	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56371-R1	**B18-10065**			**Matrix: Seawater**		**Sampled: 10-Jul-18**		**8:55**	**Received: 11-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	65.4	3	6	Total		E-16067	07-Aug-18	10-Oct-18
Aluminum (Al)	EPA 1640	µg/L	4.48	3	6	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0952	0.01	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.107	0.01	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16067	07-Aug-18	10-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.35	0.005	0.015	Dissolved		E-16067	07-Aug-18	10-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.3	0.25	0.5	Total		E-16103	07-Aug-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.81	0.25	0.5	Dissolved		E-16103	07-Aug-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0146	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0117	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0432	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0423	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.356	0.0125	0.025	Total		E-16067	07-Aug-18	10-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.181	0.0125	0.025	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0245	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.00977	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Copper (Cu)	EPA 1640	µg/L	6.05	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	4.58	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	22.1	0.5	1	Total		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0859	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0289	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	2.26	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.72	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.62	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.08	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.282	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.222	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00885	0.005	0.01	Total	J	E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00986	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.018	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	27.4	0.035	0.07	Total		E-16067	07-Aug-18	10-Oct-18
Titanium (Ti)	EPA 1640	µg/L	19.7	0.035	0.07	Dissolved		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.07	0.02	0.04	Total		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.9	0.02	0.04	Dissolved		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	13.3	0.0025	0.005	Total		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	10.6	0.0025	0.005	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56372-R1	**B18-10066**			**Matrix: Seawater**		**Sampled: 10-Jul-18**	**10:20**		**Received: 11-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	57.8	3	6	Total		E-16067	07-Aug-18	10-Oct-18
Aluminum (Al)	EPA 1640	µg/L	6.19	3	6	Dissolved		E-16067	07-Aug-18	10-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.119	0.01	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.124	0.01	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.38	0.005	0.015	Total		E-16067	07-Aug-18	10-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.37	0.005	0.015	Dissolved		E-16067	07-Aug-18	10-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.24	0.25	0.5	Total		E-16103	07-Aug-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.8	0.25	0.5	Dissolved		E-16103	07-Aug-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0071	0.005	0.01	Total	J	E-16067	07-Aug-18	10-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.015	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0817	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0785	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.246	0.0125	0.025	Total		E-16067	07-Aug-18	10-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.157	0.0125	0.025	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0548	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0535	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Copper (Cu)	EPA 1640	µg/L	10.2	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	11.3	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	25.5	0.5	1	Total		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.538	0.5	1	Dissolved	J	E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.084	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0601	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	6.04	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.26	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.71	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.98	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.608	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.604	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00796	0.005	0.01	Total	J	E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00763	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	22.9	0.035	0.07	Total		E-16067	07-Aug-18	10-Oct-18
Titanium (Ti)	EPA 1640	µg/L	17.7	0.035	0.07	Dissolved		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.97	0.02	0.04	Total		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.85	0.02	0.04	Dissolved		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	25	0.0025	0.005	Total		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	25.5	0.0025	0.005	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56373-R1	**B18-10067**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**11:36**	**Received: 11-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	68.5	3	6	Total		E-16067	07-Aug-18	10-Oct-18
Aluminum (Al)	EPA 1640	µg/L	4.98	3	6	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.112	0.01	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Total		E-16067	07-Aug-18	10-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.35	0.005	0.015	Dissolved		E-16067	07-Aug-18	10-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.44	0.25	0.5	Total		E-16103	07-Aug-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.32	0.25	0.5	Dissolved		E-16103	07-Aug-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00646	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0469	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0441	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.283	0.0125	0.025	Total		E-16067	07-Aug-18	10-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.162	0.0125	0.025	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0294	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0123	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Copper (Cu)	EPA 1640	µg/L	8.87	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	7.47	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	39.1	0.5	1	Total		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.533	0.5	1	Dissolved	J	E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.115	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0387	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	2.54	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.16	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.63	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.96	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.283	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.252	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.0109	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00718	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00668	0.005	0.01	Total	J	E-16067	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.00849	0.005	0.01	Dissolved	J	E-16067	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	16.2	0.035	0.07	Total		E-16067	07-Aug-18	10-Oct-18
Titanium (Ti)	EPA 1640	µg/L	22.7	0.035	0.07	Dissolved		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.93	0.02	0.04	Total		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.89	0.02	0.04	Dissolved		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	18.2	0.0025	0.005	Total		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	15	0.0025	0.005	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56374-R1	**B18-10068**			**Matrix: Seawater**		**Sampled: 10-Jul-18**		**13:25**	**Received: 11-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	127	3	6	Total		E-16067	07-Aug-18	10-Oct-18
Aluminum (Al)	EPA 1640	µg/L	7.83	3	6	Dissolved		E-16067	07-Aug-18	10-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0962	0.01	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Total		E-16067	07-Aug-18	10-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Dissolved		E-16067	07-Aug-18	10-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.55	0.25	0.5	Total		E-16103	07-Aug-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.46	0.25	0.5	Dissolved		E-16103	07-Aug-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00607	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0415	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0471	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.337	0.0125	0.025	Total		E-16067	07-Aug-18	10-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.19	0.0125	0.025	Dissolved		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0467	0.005	0.01	Total		E-16067	07-Aug-18	10-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0178	0.005	0.01	Dissolved		E-16067	07-Aug-18	10-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.43	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	2.5	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	73.5	0.5	1	Total		E-16067	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.109	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.02	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	3.56	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.47	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	7.87	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.21	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.359	0.0025	0.005	Total		E-16067	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.239	0.0025	0.005	Dissolved		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16067	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16067	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16067	07-Aug-18	10-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00905	0.005	0.01	Total	J	E-16067	07-Aug-18	10-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.0093	0.005	0.01	Dissolved	J	E-16067	07-Aug-18	10-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16067	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16067	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	17.6	0.035	0.07	Total		E-16067	07-Aug-18	10-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18.1	0.035	0.07	Dissolved		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.14	0.02	0.04	Total		E-16067	07-Aug-18	10-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.95	0.02	0.04	Dissolved		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	8.29	0.0025	0.005	Total		E-16067	07-Aug-18	10-Oct-18
Zinc (Zn)	EPA 1640	µg/L	8.46	0.0025	0.005	Dissolved		E-16067	07-Aug-18	10-Oct-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56370-R1	**B18-SW-EB**			**Matrix: DI Water**		**Sampled: 10-Jul-18**		**6:30**	**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	76			Total		O-20036	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	86			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	95			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	107			Total		O-20036	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	63			Total		O-20036	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56371-R1	**B18-10065**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**8:55**	**Received: 11-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	82			Total		O-20036	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	102			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	91			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	101			Total		O-20036	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	60			Total		O-20036	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56372-R1	**B18-10066**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**10:20**	**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	67			Total		O-20036	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	93			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	104			Total		O-20036	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	40			Total		O-20036	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56373-R1	**B18-10067**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**11:36**	**Received: 11-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	92			Total		O-20036	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	103			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	94			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	105			Total		O-20036	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	77			Total		O-20036	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56374-R1	**B18-10068**		**Matrix: Seawater**			**Sampled: 10-Jul-18**	**13:25**	**Received: 11-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	83			Total		O-20036	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	96			Total		O-20036	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	101			Total		O-20036	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	69			Total		O-20036	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	1.07	1	5	Total	J	O-20036	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	12-Jul-18	04-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56370-R1	**B18-SW-EB**		**Matrix: DI Water**			**Sampled: 10-Jul-18**		**6:30**	**Received: 11-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56371-R1	**B18-10065**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**8:55**	**Received: 11-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56372-R1	**B18-10066**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**10:20**	**Received: 11-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56373-R1	**B18-10067**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**11:36**	**Received: 11-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56374-R1	**B18-10068**		**Matrix: Seawater**			**Sampled: 10-Jul-18**		**13:25**	**Received: 11-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 19-Jul-18**			**Analyzed: 19-Jul-18**		
56368-B1	QAQC Procedural Blank	C-39010	ND	0.007	0.03	mg/L									
56368-BS1	QAQC Procedural Blank	C-39010	0.0273	0.007	0.03	mg/L	0.025	0	109	62 - 157%	PASS				
56368-BS2	QAQC Procedural Blank	C-39010	0.0262	0.007	0.03	mg/L	0.025	0	105	62 - 157%	PASS	4	30	PASS	
56371-MS1	B18-10065	C-39010	0.0432	0.007	0.03	mg/L	0.025	0.0166	106	17 - 186%	PASS				
56371-MS2	B18-10065	C-39010	0.0418	0.007	0.03	mg/L	0.025	0.0166	101	17 - 186%	PASS	5	30	PASS	
56371-R2	B18-10065	C-39010	0.0178	0.007	0.03	mg/L						15	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 11-Jul-18**			**Analyzed: 24-Jul-18**		
56368-B1	QAQC Procedural Blank	O-16052	ND	0.14	0.2	mg/L									
56368-BS1	QAQC Procedural Blank	O-16052	8.86	0.14	0.2	mg/L	10	0	89	67 - 114%	PASS				
56368-BS2	QAQC Procedural Blank	O-16052	9.03	0.14	0.2	mg/L	10	0	90	67 - 114%	PASS	1	30	PASS	
56372-MS1	B18-10066	O-16052	11.3	0.14	0.2	mg/L	10	1.08	102	50 - 150%	PASS				
56372-MS2	B18-10066	O-16052	12	0.14	0.2	mg/L	10	1.08	109	50 - 150%	PASS	7	30	PASS	
56372-R2	B18-10066	O-16052	1.13	0.14	0.2	mg/L						9	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**				**Prepared: 12-Jul-18**			**Analyzed: 12-Jul-18**		
56368-B1	QAQC Procedural Blank	C-38028	ND	0.005	0.025	mg/L									
56368-BS1	QAQC Procedural Blank	C-38028	0.0792	0.005	0.025	mg/L	0.1	0	79	15 - 152%	PASS				
56368-BS2	QAQC Procedural Blank	C-38028	0.0906	0.005	0.025	mg/L	0.1	0	91	15 - 152%	PASS	14	30	PASS	
56374-MS1	B18-10068	C-38028	0.107	0.005	0.025	mg/L	0.1	0.0255	81	61 - 137%	PASS				
56374-MS2	B18-10068	C-38028	0.113	0.005	0.025	mg/L	0.1	0.0255	88	61 - 137%	PASS	7	30	PASS	
56374-R2	B18-10068	C-38028	0.0255	0.005	0.025	mg/L						0	30	PASS	
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**				**Prepared: 06-Sep-18**			**Analyzed: 06-Sep-18**		
56368-B1	QAQC Procedural Blank	C-38099	ND	0.01	0.02	mg/L									
56368-BS1	QAQC Procedural Blank	C-38099	0.51	0.01	0.02	mg/L	0.5	0	102	68 - 135%	PASS				
56368-BS2	QAQC Procedural Blank	C-38099	0.508	0.01	0.02	mg/L	0.5	0	102	68 - 135%	PASS	0	30	PASS	
56371-MS1	B18-10065	C-38099	0.605	0.01	0.02	mg/L	0.5	0.0319	115	36 - 176%	PASS				
56371-MS2	B18-10065	C-38099	0.602	0.01	0.02	mg/L	0.5	0.0319	114	36 - 176%	PASS	1	30	PASS	
56371-R2	B18-10065	C-38099	0.0313	0.01	0.02	mg/L						4	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 24-Jul-18**			**Analyzed: 24-Jul-18**		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56368-B1	QAQC Procedural Blank	O-16052	ND	0.14	0.2	mg/L									
56368-BS1	QAQC Procedural Blank	O-16052	8.86	0.14	0.2	mg/L	10	0	89	63 - 133%	PASS				
56368-BS2	QAQC Procedural Blank	O-16052	9.03	0.14	0.2	mg/L	10	0	90	63 - 133%	PASS	1	30	PASS	
56372-MS1	B18-10066	O-16052	11.3	0.14	0.2	mg/L	10	1.18	101	50 - 150%	PASS				
56372-MS2	B18-10066	O-16052	11.6	0.14	0.2	mg/L	10	1.18	104	50 - 150%	PASS	3	30	PASS	
56372-R2	B18-10066	O-16052	1.02	0.14	0.2	mg/L						28	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**			**Prepared: 22-Aug-18**				**Analyzed: 22-Aug-18**		
56368-B1	QAQC Procedural Blank	C-38075	ND	0.01	0.02	mg/L									
56368-BS1	QAQC Procedural Blank	C-38075	0.195	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
56368-BS2	QAQC Procedural Blank	C-38075	0.195	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS	0	30	PASS	
56371-MS1	B18-10065	C-38075	0.213	0.01	0.02	mg/L	0.2	0.02	97	54 - 130%	PASS				
56371-MS2	B18-10065	C-38075	0.214	0.01	0.02	mg/L	0.2	0.02	97	54 - 130%	PASS	1	30	PASS	
56371-R2	B18-10065	C-38075	0.0199	0.01	0.02	mg/L						1	30	PASS	J,1
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**			**Prepared: 16-Jul-18**				**Analyzed: 16-Jul-18**		
56368-B1	QAQC Procedural Blank	C-40003	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56368-B1	**QAQC Procedural Blank**				**Matrix: DI Water**	**Sampled:**				**Received:**		
		Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18		Analyzed: 24-Aug-18	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
		Method: EPA 1640				Batch ID: E-16067			Prepared: 07-Aug-18		Analyzed: 10-Oct-18	
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
		Method: EPA 200.8				Batch ID: E-16103			Prepared: 07-Aug-18		Analyzed: 17-Oct-18	
Barium (Ba)	Total	ND	0.25	0.5	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56368-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18				Analyzed: 24-Aug-18		
Mercury (Hg)	Total	0.964	0.01	0.02	µg/L	1	0	96	84 - 120%	PASS				
	Method: EPA 200.8				Batch ID: E-16103			Prepared: 07-Aug-18				Analyzed: 17-Oct-18		
Barium (Ba)	Total	101	0.25	0.5	µg/L	100	0	101	89 - 119%	PASS				
Sample ID: 56368-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18				Analyzed: 24-Aug-18		
Mercury (Hg)	Total	0.961	0.01	0.02	µg/L	1	0	96	84 - 120%	PASS	0	30	PASS	
	Method: EPA 200.8				Batch ID: E-16103			Prepared: 07-Aug-18				Analyzed: 17-Oct-18		
Barium (Ba)	Total	99.6	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56369-LCM1	**QAQC LCM - Physis Seawater**					**Matrix: Seawater**		**Sampled:**			**Received:**	
	Method: EPA 245.7					Batch ID: E-15061		Prepared: 24-Aug-18			Analyzed: 24-Aug-18	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640					Batch ID: E-16067		Prepared: 07-Aug-18			Analyzed: 10-Oct-18	
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.111	0.01	0.015	µg/L							
Arsenic (As)	Total	2	0.005	0.015	µg/L							
Beryllium (Be)	Total	0.00811	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.121	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.273	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	1.05	0.005	0.01	µg/L							
Iron (Fe)	Total	1.59	0.5	1	µg/L							
Lead (Pb)	Total	0.364	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.233	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.43	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.51	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.012	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	0.00912	0.005	0.01	µg/L							
Tin (Sn)	Total	0.0159	0.005	0.01	µg/L							
Titanium (Ti)	Total	23.9	0.035	0.07	µg/L							
Vanadium (V)	Total	2.11	0.02	0.04	µg/L							
Zinc (Zn)	Total	0.445	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56369-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16067		Prepared: 07-Aug-18				Analyzed: 10-Oct-18	
Aluminum (Al)	Total	22.2	3	6	µg/L	20	0	111	82 - 136%			PASS
Antimony (Sb)	Total	1.58	0.01	0.015	µg/L	20	0.111	7	0 - 57%			PASS
Arsenic (As)	Total	23.7	0.005	0.015	µg/L	20	2	109	64 - 133%			PASS
Beryllium (Be)	Total	18.1	0.005	0.01	µg/L	20	0.00811	90	64 - 112%			PASS
Cadmium (Cd)	Total	18.4	0.0025	0.005	µg/L	20	0.121	91	74 - 107%			PASS
Chromium (Cr)	Total	21.5	0.0125	0.025	µg/L	20	0.273	106	87 - 117%			PASS
Cobalt (Co)	Total	20	0.005	0.01	µg/L	20	0	100	79 - 112%			PASS
Copper (Cu)	Total	19.5	0.005	0.01	µg/L	20	1.05	92	77 - 107%			PASS
Iron (Fe)	Total	20.8	0.5	1	µg/L	20	1.59	96	36 - 108%			PASS
Lead (Pb)	Total	19.9	0.0025	0.005	µg/L	20	0.364	98	77 - 110%			PASS
Manganese (Mn)	Total	20.3	0.01	0.02	µg/L	20	0.233	100	15 - 142%			PASS
Molybdenum (Mo)	Total	28.4	0.005	0.01	µg/L	20	9.43	95	78 - 108%			PASS
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.51	92	75 - 105%			PASS
Selenium (Se)	Total	18.5	0.005	0.015	µg/L	20	0.012	92	76 - 119%			PASS
Silver (Ag)	Total	7.51	0.01	0.02	µg/L	10	0	75	61 - 113%			PASS
Thallium (Tl)	Total	18.8	0.005	0.01	µg/L	20	0.00912	94	72 - 109%			PASS
Tin (Sn)	Total	17.2	0.005	0.01	µg/L	20	0.0159	86	61 - 125%			PASS
Titanium (Ti)	Total	34.9	0.035	0.07	µg/L	20	23.9	55	41 - 143%			PASS
Vanadium (V)	Total	24.3	0.02	0.04	µg/L	20	2.11	111	81 - 127%			PASS
Zinc (Zn)	Total	20.6	0.0025	0.005	µg/L	20	0.445	101	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56369-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16067			Prepared: 07-Aug-18				Analyzed: 10-Oct-18	
Aluminum (Al)	Total	21.6	3	6	µg/L	20	0	108	82 - 136%	PASS	3	30	PASS
Antimony (Sb)	Total	1.66	0.01	0.015	µg/L	20	0.111	8	0 - 57%	PASS	13	30	PASS
Arsenic (As)	Total	23.3	0.005	0.015	µg/L	20	2	106	64 - 133%	PASS	2	30	PASS
Beryllium (Be)	Total	17.7	0.005	0.01	µg/L	20	0.00811	88	64 - 112%	PASS	2	30	PASS
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.121	93	74 - 107%	PASS	2	30	PASS
Chromium (Cr)	Total	21	0.0125	0.025	µg/L	20	0.273	104	87 - 117%	PASS	2	30	PASS
Cobalt (Co)	Total	19.5	0.005	0.01	µg/L	20	0	98	79 - 112%	PASS	2	30	PASS
Copper (Cu)	Total	19.1	0.005	0.01	µg/L	20	1.05	90	77 - 107%	PASS	2	30	PASS
Iron (Fe)	Total	20.6	0.5	1	µg/L	20	1.59	95	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	20.2	0.0025	0.005	µg/L	20	0.364	99	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	19.6	0.01	0.02	µg/L	20	0.233	97	15 - 142%	PASS	3	30	PASS
Molybdenum (Mo)	Total	28.4	0.005	0.01	µg/L	20	9.43	95	78 - 108%	PASS	0	30	PASS
Nickel (Ni)	Total	19.1	0.0025	0.005	µg/L	20	0.51	93	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	18.6	0.005	0.015	µg/L	20	0.012	93	76 - 119%	PASS	1	30	PASS
Silver (Ag)	Total	8.33	0.01	0.02	µg/L	10	0	83	61 - 113%	PASS	10	30	PASS
Thallium (Tl)	Total	18.5	0.005	0.01	µg/L	20	0.00912	92	72 - 109%	PASS	2	30	PASS
Tin (Sn)	Total	17.4	0.005	0.01	µg/L	20	0.0159	87	61 - 125%	PASS	1	30	PASS
Titanium (Ti)	Total	36.1	0.035	0.07	µg/L	20	23.9	61	41 - 143%	PASS	10	30	PASS
Vanadium (V)	Total	23.8	0.02	0.04	µg/L	20	2.11	108	81 - 127%	PASS	3	30	PASS
Zinc (Zn)	Total	19.4	0.0025	0.005	µg/L	20	0.445	95	72 - 116%	PASS	6	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56371-MS1	**B18-10065**				**Matrix: Seawater**		**Sampled: 10-Jul-18**	**8:55**		**Received: 11-Jul-18**		
	Method: EPA 1640				Batch ID: E-16067		Prepared: 07-Aug-18			Analyzed: 10-Oct-18		
Aluminum (Al)	Total	65	3	6	µg/L	20	64.6	2	82 - 136%	FAIL		SH
Antimony (Sb)	Total	2	0.01	0.015	µg/L	20	0.0984	10	0 - 57%	PASS		
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.39	108	64 - 133%	PASS		
Beryllium (Be)	Total	17.1	0.005	0.01	µg/L	20	0.0131	85	64 - 112%	PASS		
Cadmium (Cd)	Total	18.7	0.0025	0.005	µg/L	20	0.0458	93	74 - 107%	PASS		
Chromium (Cr)	Total	20.9	0.0125	0.025	µg/L	20	0.354	103	87 - 117%	PASS		
Cobalt (Co)	Total	19.7	0.005	0.01	µg/L	20	0.0229	98	79 - 112%	PASS		
Copper (Cu)	Total	24.5	0.005	0.01	µg/L	20	6.08	92	77 - 107%	PASS		
Iron (Fe)	Total	31.3	0.5	1	µg/L	20	21.1	51	36 - 108%	PASS		
Lead (Pb)	Total	19.7	0.0025	0.005	µg/L	20	0.0761	98	77 - 110%	PASS		
Manganese (Mn)	Total	20.5	0.01	0.02	µg/L	20	2.26	91	15 - 142%	PASS		
Molybdenum (Mo)	Total	27.1	0.005	0.01	µg/L	20	8.67	92	78 - 108%	PASS		
Nickel (Ni)	Total	18.2	0.0025	0.005	µg/L	20	0.286	90	75 - 105%	PASS		
Selenium (Se)	Total	19.4	0.005	0.015	µg/L	20	0	97	76 - 119%	PASS		
Silver (Ag)	Total	8.17	0.01	0.02	µg/L	10	0	82	61 - 113%	PASS		
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.00839	91	72 - 109%	PASS		
Tin (Sn)	Total	18.4	0.005	0.01	µg/L	20	0.00326	92	61 - 125%	PASS		
Titanium (Ti)	Total	33.1	0.035	0.07	µg/L	20	27.1	30	41 - 143%	FAIL		M
Vanadium (V)	Total	23.2	0.02	0.04	µg/L	20	2.08	106	81 - 127%	PASS		
Zinc (Zn)	Total	33.4	0.0025	0.005	µg/L	20	13.3	101	72 - 116%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56371-MS2	**B18-10065**				**Matrix: Seawater**		**Sampled: 10-Jul-18**		**8:55**		**Received: 11-Jul-18**			
	Method: EPA 1640				Batch ID: E-16067		Prepared: 07-Aug-18				Analyzed: 10-Oct-18			
Aluminum (Al)	Total	71.2	3	6	µg/L	20	64.6	33	82 - 136%	FAIL	177	30	FAIL	SH
Antimony (Sb)	Total	2.01	0.01	0.015	µg/L	20	0.0984	10	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.39	108	64 - 133%	PASS	0	30	PASS	
Beryllium (Be)	Total	17	0.005	0.01	µg/L	20	0.0131	85	64 - 112%	PASS	0	30	PASS	
Cadmium (Cd)	Total	18.9	0.0025	0.005	µg/L	20	0.0458	94	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20.8	0.0125	0.025	µg/L	20	0.354	102	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.5	0.005	0.01	µg/L	20	0.0229	97	79 - 112%	PASS	1	30	PASS	
Copper (Cu)	Total	24.9	0.005	0.01	µg/L	20	6.08	94	77 - 107%	PASS	2	30	PASS	
Iron (Fe)	Total	31.1	0.5	1	µg/L	20	21.1	50	36 - 108%	PASS	2	30	PASS	
Lead (Pb)	Total	19.9	0.0025	0.005	µg/L	20	0.0761	99	77 - 110%	PASS	1	30	PASS	
Manganese (Mn)	Total	20.8	0.01	0.02	µg/L	20	2.26	93	15 - 142%	PASS	2	30	PASS	
Molybdenum (Mo)	Total	27.2	0.005	0.01	µg/L	20	8.67	93	78 - 108%	PASS	1	30	PASS	
Nickel (Ni)	Total	18.3	0.0025	0.005	µg/L	20	0.286	90	75 - 105%	PASS	0	30	PASS	
Selenium (Se)	Total	19.4	0.005	0.015	µg/L	20	0	97	76 - 119%	PASS	0	30	PASS	
Silver (Ag)	Total	8.04	0.01	0.02	µg/L	10	0	80	61 - 113%	PASS	2	30	PASS	
Thallium (Tl)	Total	18	0.005	0.01	µg/L	20	0.00839	90	72 - 109%	PASS	1	30	PASS	
Tin (Sn)	Total	18.2	0.005	0.01	µg/L	20	0.00326	91	61 - 125%	PASS	1	30	PASS	
Titanium (Ti)	Total	39.5	0.035	0.07	µg/L	20	27.1	62	41 - 143%	PASS	70	30	FAIL	M
Vanadium (V)	Total	23.5	0.02	0.04	µg/L	20	2.08	107	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	33	0.0025	0.005	µg/L	20	13.3	99	72 - 116%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56371-R2	**B18-10065**				**Matrix: Seawater**		**Sampled: 10-Jul-18 8:55**			**Received: 11-Jul-18**		
	Method: EPA 1640				Batch ID: E-16067		Prepared: 07-Aug-18			Analyzed: 10-Oct-18		
Aluminum (Al)	Dissolved	4.82	3	6	µg/L					7	30 PASS	J
Aluminum (Al)	Total	63.8	3	6	µg/L					2	30 PASS	
Antimony (Sb)	Dissolved	0.116	0.01	0.015	µg/L					8	30 PASS	
Antimony (Sb)	Total	0.102	0.01	0.015	µg/L					7	30 PASS	
Arsenic (As)	Dissolved	1.38	0.005	0.015	µg/L					2	30 PASS	
Arsenic (As)	Total	1.37	0.005	0.015	µg/L					3	30 PASS	
Beryllium (Be)	Dissolved	0.0197	0.005	0.01	µg/L					51	30 FAIL	SL
Beryllium (Be)	Total	0.0117	0.005	0.01	µg/L					22	30 PASS	
Cadmium (Cd)	Dissolved	0.0441	0.0025	0.005	µg/L					4	30 PASS	
Cadmium (Cd)	Total	0.0484	0.0025	0.005	µg/L					11	30 PASS	
Chromium (Cr)	Dissolved	0.183	0.0125	0.025	µg/L					1	30 PASS	
Chromium (Cr)	Total	0.353	0.0125	0.025	µg/L					1	30 PASS	
Cobalt (Co)	Dissolved	0.0101	0.005	0.01	µg/L					3	30 PASS	
Cobalt (Co)	Total	0.0213	0.005	0.01	µg/L					14	30 PASS	
Copper (Cu)	Dissolved	4.64	0.005	0.01	µg/L					1	30 PASS	
Copper (Cu)	Total	6.11	0.005	0.01	µg/L					1	30 PASS	
Iron (Fe)	Dissolved	ND	0.5	1	µg/L					0	30 PASS	
Iron (Fe)	Total	20.2	0.5	1	µg/L					9	30 PASS	
Lead (Pb)	Dissolved	0.022	0.0025	0.005	µg/L					27	30 PASS	
Lead (Pb)	Total	0.0662	0.0025	0.005	µg/L					26	30 PASS	
Manganese (Mn)	Dissolved	1.74	0.01	0.02	µg/L					1	30 PASS	
Manganese (Mn)	Total	2.25	0.01	0.02	µg/L					0	30 PASS	
Molybdenum (Mo)	Dissolved	9.1	0.005	0.01	µg/L					0	30 PASS	
Molybdenum (Mo)	Total	8.71	0.005	0.01	µg/L					1	30 PASS	
Nickel (Ni)	Dissolved	0.232	0.0025	0.005	µg/L					4	30 PASS	
Nickel (Ni)	Total	0.29	0.0025	0.005	µg/L					3	30 PASS	
Selenium (Se)	Dissolved	ND	0.005	0.015	µg/L					0	30 PASS	
Selenium (Se)	Total	ND	0.005	0.015	µg/L					0	30 PASS	
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Silver (Ag)	Total	ND	0.01	0.02	µg/L					0	30	PASS	
Thallium (Tl)	Dissolved	0.007	0.005	0.01	µg/L					34	30	FAIL	J,SL
Thallium (Tl)	Total	0.00793	0.005	0.01	µg/L					11	30	PASS	J
Tin (Sn)	Dissolved	0.00826	0.005	0.01	µg/L					74	30	FAIL	J,SL
Tin (Sn)	Total	0.00652	0.005	0.01	µg/L					26	30	PASS	J
Titanium (Ti)	Dissolved	20.3	0.035	0.07	µg/L					3	30	PASS	
Titanium (Ti)	Total	26.9	0.035	0.07	µg/L					2	30	PASS	
Vanadium (V)	Dissolved	1.94	0.02	0.04	µg/L					2	30	PASS	
Vanadium (V)	Total	2.09	0.02	0.04	µg/L					1	30	PASS	
Zinc (Zn)	Dissolved	11	0.0025	0.005	µg/L					4	30	PASS	
Zinc (Zn)	Total	13.3	0.0025	0.005	µg/L					0	30	PASS	
Sample ID: 56372-MS1	**B18-10066**				**Matrix: Seawater**			**Sampled: 10-Jul-18**	**10:20**		**Received: 11-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18			Analyzed: 24-Aug-18		
Mercury (Hg)	Total	1.16	0.01	0.02	µg/L	1	0	116	76 - 127% PASS				
Sample ID: 56372-MS2	**B18-10066**				**Matrix: Seawater**			**Sampled: 10-Jul-18**	**10:20**		**Received: 11-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18			Analyzed: 24-Aug-18		
Mercury (Hg)	Total	1.18	0.01	0.02	µg/L	1	0	118	76 - 127% PASS	2	30	PASS	
Sample ID: 56372-R2	**B18-10066**				**Matrix: Seawater**			**Sampled: 10-Jul-18**	**10:20**		**Received: 11-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18			Analyzed: 24-Aug-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30	PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30	PASS	
Sample ID: 56374-MS1	**B18-10068**				**Matrix: Seawater**			**Sampled: 10-Jul-18**	**13:25**		**Received: 11-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16103			Prepared: 07-Aug-18			Analyzed: 17-Oct-18		
Barium (Ba)	Total	111	0.25	0.5	µg/L	100	6.17	105	90 - 120% PASS				
Sample ID: 56374-MS2	**B18-10068**				**Matrix: Seawater**			**Sampled: 10-Jul-18**	**13:25**		**Received: 11-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16103			Prepared: 07-Aug-18			Analyzed: 17-Oct-18		
Barium (Ba)	Total	113	0.25	0.5	µg/L	100	6.17	107	90 - 120% PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56374-R2	**B18-10068**				**Matrix: Seawater**		**Sampled: 10-Jul-18**	**13:25**		**Received: 11-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16103		Prepared: 07-Aug-18			Analyzed: 17-Oct-18		
Barium (Ba)	Dissolved	5.59	0.25	0.5	µg/L					2	30	PASS
Barium (Ba)	Total	5.78	0.25	0.5	µg/L					12	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56368-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20036		Prepared: 12-Jul-18				Analyzed: 04-Aug-18	
(d10-Acenaphthene)	Total	97			% Recovery	100	97	65 - 113%	PASS			
(d10-Phenanthrene)	Total	102			% Recovery	100	102	80 - 111%	PASS			
(d12-Chrysene)	Total	103			% Recovery	100	103	60 - 139%	PASS			
(d12-Perylene)	Total	105			% Recovery	100	105	36 - 161%	PASS			
(d8-Naphthalene)	Total	75			% Recovery	100	75	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56368-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**	
	Method: EPA 625				Batch ID: O-20036			Prepared: 12-Jul-18			Analyzed: 04-Aug-18	
(d10-Acenaphthene)	Total	91			% Recovery	100	0	91	65 - 113%		PASS	
(d10-Phenanthrene)	Total	100			% Recovery	100	0	100	80 - 111%		PASS	
(d12-Chrysene)	Total	99			% Recovery	100	0	99	60 - 139%		PASS	
(d12-Perylene)	Total	100			% Recovery	100	0	100	36 - 161%		PASS	
(d8-Naphthalene)	Total	66			% Recovery	100	0	66	44 - 119%		PASS	
1-Methylnaphthalene	Total	418	1	5	ng/L	500	0	84	49 - 117%		PASS	
1-Methylphenanthrene	Total	455	1	5	ng/L	500	0	91	66 - 127%		PASS	
2,3,5-Trimethylnaphthalene	Total	472	1	5	ng/L	500	0	94	57 - 120%		PASS	
2,6-Dimethylnaphthalene	Total	447	1	5	ng/L	500	0	89	54 - 117%		PASS	
2-Methylnaphthalene	Total	412	1	5	ng/L	500	0	82	47 - 130%		PASS	
Acenaphthene	Total	470	1	5	ng/L	500	0	94	53 - 131%		PASS	
Acenaphthylene	Total	451	1	5	ng/L	500	0	90	43 - 140%		PASS	
Anthracene	Total	479	1	5	ng/L	500	0	96	58 - 135%		PASS	
Benz[a]anthracene	Total	503	1	5	ng/L	500	0	101	55 - 145%		PASS	
Benzo[a]pyrene	Total	504	1	5	ng/L	500	0	101	51 - 143%		PASS	
Benzo[b]fluoranthene	Total	390	1	5	ng/L	500	0	78	46 - 165%		PASS	
Benzo[e]pyrene	Total	416	1	5	ng/L	500	0	83	42 - 152%		PASS	
Benzo[g,h,i]perylene	Total	512	1	5	ng/L	500	0	102	63 - 133%		PASS	
Benzo[k]fluoranthene	Total	451	1	5	ng/L	500	0	90	56 - 145%		PASS	
Biphenyl	Total	464	1	5	ng/L	500	0	93	56 - 119%		PASS	
Chrysene	Total	486	1	5	ng/L	500	0	97	56 - 141%		PASS	
Dibenz[a,h]anthracene	Total	520	1	5	ng/L	500	0	104	55 - 150%		PASS	
Dibenzothiophene	Total	475	1	5	ng/L	500	0	95	75 - 113%		PASS	
Fluoranthene	Total	454	1	5	ng/L	500	0	91	60 - 146%		PASS	
Fluorene	Total	480	1	5	ng/L	500	0	96	58 - 131%		PASS	
Indeno[1,2,3-cd]pyrene	Total	469	1	5	ng/L	500	0	94	50 - 151%		PASS	
Naphthalene	Total	364	1	5	ng/L	500	0	73	41 - 126%		PASS	
Perylene	Total	441	1	5	ng/L	500	0	88	48 - 141%		PASS	
Phenanthrene	Total	481	1	5	ng/L	500	0	96	67 - 127%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	448	1	5	ng/L	500	0	90	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56368-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 625				Batch ID: O-20036			Prepared: 12-Jul-18				Analyzed: 04-Aug-18		
(d10-Acenaphthene)	Total	87			% Recovery	100	0	87	65 - 113%	PASS	4	30	PASS	
(d10-Phenanthrene)	Total	99			% Recovery	100	0	99	80 - 111%	PASS	1	30	PASS	
(d12-Chrysene)	Total	102			% Recovery	100	0	102	60 - 139%	PASS	3	30	PASS	
(d12-Perylene)	Total	99			% Recovery	100	0	99	36 - 161%	PASS	1	30	PASS	
(d8-Naphthalene)	Total	78			% Recovery	100	0	78	44 - 119%	PASS	17	30	PASS	
1-Methylnaphthalene	Total	434	1	5	ng/L	500	0	87	49 - 117%	PASS	4	30	PASS	
1-Methylphenanthrene	Total	453	1	5	ng/L	500	0	91	66 - 127%	PASS	0	30	PASS	
2,3,5-Trimethylnaphthalene	Total	448	1	5	ng/L	500	0	90	57 - 120%	PASS	4	30	PASS	
2,6-Dimethylnaphthalene	Total	442	1	5	ng/L	500	0	88	54 - 117%	PASS	1	30	PASS	
2-Methylnaphthalene	Total	429	1	5	ng/L	500	0	86	47 - 130%	PASS	5	30	PASS	
Acenaphthene	Total	447	1	5	ng/L	500	0	89	53 - 131%	PASS	5	30	PASS	
Acenaphthylene	Total	428	1	5	ng/L	500	0	86	43 - 140%	PASS	5	30	PASS	
Anthracene	Total	482	1	5	ng/L	500	0	96	58 - 135%	PASS	0	30	PASS	
Benz[a]anthracene	Total	510	1	5	ng/L	500	0	102	55 - 145%	PASS	1	30	PASS	
Benzo[a]pyrene	Total	508	1	5	ng/L	500	0	102	51 - 143%	PASS	1	30	PASS	
Benzo[b]fluoranthene	Total	374	1	5	ng/L	500	0	75	46 - 165%	PASS	4	30	PASS	
Benzo[e]pyrene	Total	422	1	5	ng/L	500	0	84	42 - 152%	PASS	1	30	PASS	
Benzo[g,h,i]perylene	Total	481	1	5	ng/L	500	0	96	63 - 133%	PASS	6	30	PASS	
Benzo[k]fluoranthene	Total	443	1	5	ng/L	500	0	89	56 - 145%	PASS	1	30	PASS	
Biphenyl	Total	451	1	5	ng/L	500	0	90	56 - 119%	PASS	3	30	PASS	
Chrysene	Total	506	1	5	ng/L	500	0	101	56 - 141%	PASS	4	30	PASS	
Dibenz[a,h]anthracene	Total	521	1	5	ng/L	500	0	104	55 - 150%	PASS	0	30	PASS	
Dibenzothiophene	Total	473	1	5	ng/L	500	0	95	75 - 113%	PASS	0	30	PASS	
Fluoranthene	Total	443	1	5	ng/L	500	0	89	60 - 146%	PASS	2	30	PASS	
Fluorene	Total	460	1	5	ng/L	500	0	92	58 - 131%	PASS	4	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	452	1	5	ng/L	500	0	90	50 - 151%	PASS	4	30	PASS	
Naphthalene	Total	428	1	5	ng/L	500	0	86	41 - 126%	PASS	16	30	PASS	
Perylene	Total	437	1	5	ng/L	500	0	87	48 - 141%	PASS	1	30	PASS	
Phenanthrene	Total	478	1	5	ng/L	500	0	96	67 - 127%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	435	1	5	ng/L	500	0	87	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56368-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 1664B				Batch ID: C-19114		Prepared: 26-Jul-18			Analyzed: 26-Jul-18		
Oil & Grease	NA	ND	1	1	mg/L							
Sample ID: 56368-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 1664B				Batch ID: C-19114		Prepared: 26-Jul-18			Analyzed: 26-Jul-18		
Oil & Grease	NA	38.8	1	1	mg/L	40	0	97	70 - 110% PASS			
Sample ID: 56368-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 1664B				Batch ID: C-19114		Prepared: 26-Jul-18			Analyzed: 26-Jul-18		
Oil & Grease	NA	40	1	1	mg/L	40	0	100	70 - 110% PASS	3	30 PASS	

CHAIN OF CUSTODY

1807003-001

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.	PROJECT: 2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/10/18	0630	DI	B18-SW-EB	13	X	X	X	X	X	X	X	X	X	X
		0855	seawater	B18-10065	13	X	X	X	X	X	X	X	X	X	X
		1020	seawater	B18-10066	13	X	X	X	X	X	X	X	X	X	X
		1136	seawater	B18-10067	13	X	X	X	X	X	X	X	X	X	X
	↓	1325	seawater	B18-10068	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME 7/11/18 0940	RECEIVED BY 7/11/18 0940
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625

Notes:
+ TSS Total Susp. Solids
# 25400

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-001

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/11/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 5	☐ BLUE ☑ WET ☐ DRY
Start 6:30 End 11:40 ☐ Other:	☐ Other :	☐ None 10.9 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

See Temperature

Missing the frozen Nitrate & Total Orthophosphate bottles. - per client it was left in the freezer.
Frozen samples were received 7/13/18.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-003

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/13/2018. A total of 13 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-003

2018 Regional Harbor Monitoring Program Total Samples: 13

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56400	B18-10015		7/12/2018	13:35	Seawater
56401	B18-10016		7/12/2018	12:00	Seawater
56402	B18-10438 (overdraw)		7/12/2018	15:35	Seawater
56403	B18-10020		7/12/2018	6:45	Seawater
56404	B18-10073		7/12/2018	10:45	Seawater
56405	B18-10074		7/12/2018	9:35	Seawater
56406	B18-10075		7/12/2018	8:10	Seawater
56407	B18-10017		7/13/2018	8:10	Seawater
56408	B18-10019		7/13/2018	6:30	Seawater
56409	B18-10069		7/11/2018	11:45	Seawater
56410	B18-10070		7/11/2018	10:30	Seawater
56411	B18-10071		7/11/2018	9:30	Seawater
56412	B18-10072		7/11/2018	13:30	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56400-R1	**B18-10015**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**13:35**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.98	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0296	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.77	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.041	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.9	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56401-R1	**B18-10016**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**12:00**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.69	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0233	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.99	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0196	0.01	0.02	NA	J,1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.15	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56402-R1	**B18-10438 (overdraw)**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**15:35**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0201	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.92	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0332	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.5	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56403-R1	**B18-10020**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**6:45**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0175	0.007	0.03	NA	J	C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.4	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0192	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0267	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.65	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0222	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.45	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56404-R1	**B18-10073**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**10:45**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.71	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0237	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.81	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0219	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.6	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56405-R1	**B18-10074**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**9:35**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.95	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0278	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.19	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0246	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	7.6	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56406-R1	**B18-10075**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**8:10**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.026	0.007	0.03	NA	J	C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.28	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0242	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.44	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.031	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.2	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56407-R1	**B18-10017**		**Matrix: Seawater**			**Sampled: 13-Jul-18**	**8:10**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0159	0.007	0.03	NA	J	C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.6	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0274	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.09	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0513	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.9	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56408-R1	**B18-10019**		**Matrix: Seawater**			**Sampled: 13-Jul-18**	**6:30**	**Received: 13-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.3	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0255	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.56	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0227	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	12.2	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56409-R1	**B18-10069**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**11:45**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.31	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.031	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0144	0.01	0.02	NA	J,1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.47	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0284	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	7.55	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56410-R1	**B18-10070**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**10:30**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.29	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.0469	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.23	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0209	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	6.2	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18
Sample ID: 56411-R1	**B18-10071**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**9:30**	**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.32	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.052	0.005	0.025	NA		C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.28	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0209	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	11.9	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56412-R1	**B18-10072**			**Matrix: Seawater**		**Sampled: 11-Jul-18**	**13:30**		**Received: 13-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0193	0.007	0.03	NA	J	C-39012	31-Jul-18	31-Jul-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.16	0.14	0.2	NA		O-16055	13-Jul-18	25-Jul-18
MBAS	SM 5540 C	mg/L	0.011	0.005	0.025	NA	J	C-38028	13-Jul-18	13-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0253	0.01	0.02	NA	1	C-38099	06-Sep-18	06-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.22	0.14	0.2	NA		O-16055	25-Jul-18	25-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0272	0.01	0.02	NA	1	C-38075	22-Aug-18	22-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.8	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56400-R1	**B18-10015**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**13:35**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	61.5	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	14	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.124	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.143	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.95	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.84	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	18.8	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	18.6	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.033	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0675	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.284	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.27	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.125	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.12	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.07	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.24	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	46.5	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	1.23	0.5	1	Dissolved		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.134	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0594	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	20.1	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	20.5	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.87	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.59	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.303	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.403	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0117	0.005	0.015	Total	J	E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0445	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	0.0111	0.01	0.02	Total	J	E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.0171	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	13.2	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	10.3	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.73	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.59	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	2.2	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.92	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56401-R1	**B18-10016**			**Matrix: Seawater**		**Sampled: 12-Jul-18**		**12:00**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	55.4	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0881	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.58	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.83	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.69	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0258	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0425	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.172	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.113	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0563	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0329	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.873	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	0.872	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	43.2	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.891	0.5	1	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.103	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0421	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	5.01	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.14	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.68	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.06	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.227	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.217	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0162	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.039	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.0103	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	15.4	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	10.1	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.27	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	0.568	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	0.495	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56402-R1	**B18-10438 (overdraw)**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**15:35**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	31.7	3	6	Total		E-16068	07-Aug-18	26-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	26-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.109	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.143	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.43	0.005	0.015	Total		E-16068	07-Aug-18	26-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.44	0.005	0.015	Dissolved		E-16068	07-Aug-18	26-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.16	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.78	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	26-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	26-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0317	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0309	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.0984	0.0125	0.025	Total		E-16068	07-Aug-18	26-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.059	0.0125	0.025	Dissolved		E-16068	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0488	0.005	0.01	Total		E-16068	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0368	0.005	0.01	Dissolved		E-16068	07-Aug-18	26-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.38	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.22	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	45.3	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	1.73	0.5	1	Dissolved		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0646	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0117	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	7.5	0.01	0.02	Total		E-16068	07-Aug-18	26-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.51	0.01	0.02	Dissolved		E-16068	07-Aug-18	26-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.69	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.03	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.227	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.202	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0163	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0189	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	26-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	26-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	13.4	0.035	0.07	Total		E-16068	07-Aug-18	26-Oct-18
Titanium (Ti)	EPA 1640	µg/L	11	0.035	0.07	Dissolved		E-16068	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	2	0.02	0.04	Total		E-16068	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.84	0.02	0.04	Dissolved		E-16068	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.57	0.0025	0.005	Total		E-16068	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.28	0.0025	0.005	Dissolved		E-16068	07-Aug-18	26-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56403-R1	**B18-10020**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**6:45**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	43.7	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0875	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.111	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.44	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.37	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.47	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.2	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0326	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0269	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.201	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.136	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.791	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	0.855	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	27.7	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.849	0.5	1	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.121	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.03	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	2.44	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.27	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.67	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.79	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.186	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.221	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0249	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.034	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	16.7	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	10.5	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.14	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	1.95	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	0.96	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	2.58	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56404-R1	**B18-10073**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**10:45**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	95.9	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0916	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.118	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.4	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.47	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	3.81	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.022	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0253	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.251	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.127	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0289	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0202	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.36	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.02	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	71.5	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.725	0.5	1	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.135	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0322	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	3.33	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.1	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15061	24-Aug-18	24-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15061	24-Aug-18	24-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.24	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.86	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.245	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.19	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0148	0.005	0.015	Total	J	E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0116	0.005	0.015	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	18.5	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	12.5	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.46	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.2	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.4	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	2.84	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56405-R1	**B18-10074**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**9:35**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	68.7	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0981	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.113	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.4	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.35	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.34	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.37	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0278	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0214	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.208	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.104	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0119	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.15	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.1	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	54.6	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.854	0.5	1	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.123	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0216	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	2.96	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.11	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.85	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.75	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.231	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.189	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0397	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0325	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	15.1	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	10.4	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.3	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.09	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.32	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.57	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56406-R1	**B18-10075**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**8:10**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	97.2	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0956	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.114	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.38	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.19	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.88	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.011	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0266	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0306	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.26	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.095	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0568	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0106	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.92	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.37	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	67.3	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	0.785	0.5	1	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.155	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0382	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	4.06	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.94	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.26	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.83	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.223	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.202	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0102	0.005	0.015	Total	J	E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.00707	0.005	0.015	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	18	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	11.2	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.36	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.07	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.8	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.22	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56407-R1	**B18-10017**		**Matrix: Seawater**			**Sampled: 13-Jul-18**		**8:10**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	97.1	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	4.51	3	6	Dissolved	J	E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.127	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.139	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	2.09	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	2.02	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	12.2	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	10.7	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.044	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0421	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.134	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0436	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.122	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.491	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.39	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.17	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	61	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	1.05	0.5	1	Dissolved		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.183	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0427	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	23.1	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	21.7	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.66	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.04	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.338	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.302	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.043	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0479	0.005	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00544	0.005	0.01	Total	J	E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00736	0.005	0.01	Dissolved	J	E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0174	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	0.0538	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	15	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	10.3	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.84	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.68	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.61	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	0.707	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56408-R1	**B18-10019**			**Matrix: Seawater**		**Sampled: 13-Jul-18**		**6:30**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	95	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0885	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.116	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.7	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.55	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0257	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0251	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.251	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0987	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.237	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.00838	0.005	0.01	Dissolved	J	E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.4	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	1.34	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	71.1	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.132	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0256	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	4.4	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.89	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.06	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.45	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.225	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.203	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.00541	0.005	0.015	Total	J	E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.00924	0.005	0.015	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00688	0.005	0.01	Total	J	E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	18.3	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	17.2	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.29	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.09	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	1.11	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	0.629	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56409-R1	**B18-10069**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**11:45**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	123	3	6	Total		E-16068	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.47	3	6	Dissolved	J	E-16068	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0857	0.01	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Antimony (Sb)	EPA 1640	µg/L	0.111	0.01	0.015	Dissolved		E-16068	07-Sep-18	27-Sep-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Total		E-16068	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.56	0.005	0.015	Dissolved		E-16068	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.67	0.25	0.5	Total		E-16109	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.88	0.25	0.5	Dissolved		E-16109	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0332	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Cadmium (Cd)	EPA 1640	µg/L	0.0317	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Chromium (Cr)	EPA 1640	µg/L	0.284	0.0125	0.025	Total		E-16068	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.112	0.0125	0.025	Dissolved		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.385	0.005	0.01	Total		E-16068	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0166	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	8.71	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Copper (Cu)	EPA 1640	µg/L	7.46	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	85.8	0.5	1	Total		E-16068	07-Sep-18	27-Sep-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.157	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Lead (Pb)	EPA 1640	µg/L	0.0226	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Manganese (Mn)	EPA 1640	µg/L	5.58	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.53	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.58	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.24	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.288	0.0025	0.005	Total		E-16068	07-Sep-18	27-Sep-18
Nickel (Ni)	EPA 1640	µg/L	0.202	0.0025	0.005	Dissolved		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0156	0.005	0.015	Total		E-16068	07-Sep-18	27-Sep-18
Selenium (Se)	EPA 1640	µg/L	0.0146	0.005	0.015	Dissolved	J	E-16068	07-Sep-18	27-Sep-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16068	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00979	0.005	0.01	Total	J	E-16068	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16068	07-Sep-18	27-Sep-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16068	07-Sep-18	27-Sep-18
Titanium (Ti)	EPA 1640	µg/L	18.2	0.035	0.07	Total		E-16068	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	16.1	0.035	0.07	Dissolved		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.32	0.02	0.04	Total		E-16068	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.15	0.02	0.04	Dissolved		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	19.9	0.0025	0.005	Total		E-16068	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	18.6	0.0025	0.005	Dissolved		E-16068	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56410-R1	**B18-10070**		**Matrix: Seawater**			**Sampled: 11-Jul-18**	**10:30**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	65.8	3	6	Total		E-16069	07-Aug-18	25-Oct-18
Aluminum (Al)	EPA 1640	µg/L	16.1	3	6	Dissolved		E-16069	07-Aug-18	25-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.117	0.01	0.015	Total		E-16069	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.132	0.01	0.015	Dissolved		E-16069	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.67	0.005	0.015	Total		E-16069	07-Aug-18	25-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.67	0.005	0.015	Dissolved		E-16069	07-Aug-18	25-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.53	0.25	0.5	Total		E-16110	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.77	0.25	0.5	Dissolved		E-16110	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	25-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	25-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0296	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0418	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.22	0.0125	0.025	Total		E-16069	07-Aug-18	25-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.332	0.0125	0.025	Dissolved		E-16069	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.011	0.005	0.01	Total		E-16069	07-Aug-18	25-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	25-Oct-18
Copper (Cu)	EPA 1640	µg/L	5.82	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	5.68	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	35.6	0.5	1	Total		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0521	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0059	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.08	0.01	0.02	Total		E-16069	07-Aug-18	25-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.83	0.01	0.02	Dissolved		E-16069	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.56	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.59	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.272	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.206	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.0251	0.005	0.015	Total		E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.0212	0.005	0.015	Dissolved		E-16069	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16069	07-Aug-18	25-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16069	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00777	0.005	0.01	Total	J	E-16069	07-Aug-18	25-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00629	0.005	0.01	Dissolved	J	E-16069	07-Aug-18	25-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0247	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.16	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18.1	0.035	0.07	Total		E-16069	07-Aug-18	25-Oct-18
Titanium (Ti)	EPA 1640	µg/L	14.1	0.035	0.07	Dissolved		E-16069	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.31	0.02	0.04	Total		E-16069	07-Aug-18	25-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.17	0.02	0.04	Dissolved		E-16069	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	17.5	0.0025	0.005	Total		E-16069	07-Aug-18	25-Oct-18
Zinc (Zn)	EPA 1640	µg/L	16.9	0.0025	0.005	Dissolved		E-16069	07-Aug-18	25-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56411-R1	**B18-10071**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**9:30**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	75.7	3	6	Total		E-16069	07-Aug-18	26-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.54	3	6	Dissolved	J	E-16069	07-Aug-18	26-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.0985	0.01	0.015	Total		E-16069	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.124	0.01	0.015	Dissolved		E-16069	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16069	07-Aug-18	26-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.59	0.005	0.015	Dissolved		E-16069	07-Aug-18	26-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.57	0.25	0.5	Total		E-16110	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	3.73	0.25	0.5	Dissolved		E-16110	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	26-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0263	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0328	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.241	0.0125	0.025	Total		E-16069	07-Aug-18	26-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.149	0.0125	0.025	Dissolved		E-16069	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	26-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.13	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.48	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	43.7	0.5	1	Total		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0432	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.41	0.01	0.02	Total		E-16069	07-Aug-18	26-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.52	0.01	0.02	Dissolved		E-16069	07-Aug-18	26-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	9.04	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.64	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.222	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.194	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.00688	0.005	0.015	Total	J	E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.0206	0.005	0.015	Dissolved		E-16069	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16069	07-Aug-18	26-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16069	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.007	0.005	0.01	Dissolved	J	E-16069	07-Aug-18	26-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0194	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	17.9	0.035	0.07	Total		E-16069	07-Aug-18	26-Oct-18
Titanium (Ti)	EPA 1640	µg/L	12.1	0.035	0.07	Dissolved		E-16069	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.22	0.02	0.04	Total		E-16069	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.01	0.02	0.04	Dissolved		E-16069	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.87	0.0025	0.005	Total		E-16069	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.13	0.0025	0.005	Dissolved		E-16069	07-Aug-18	26-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56412-R1	**B18-10072**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**13:30**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	41.1	3	6	Total		E-16069	07-Aug-18	26-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.18	3	6	Dissolved	J	E-16069	07-Aug-18	26-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.112	0.01	0.015	Total		E-16069	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.114	0.01	0.015	Dissolved		E-16069	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.55	0.005	0.015	Total		E-16069	07-Aug-18	26-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.62	0.005	0.015	Dissolved		E-16069	07-Aug-18	26-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.38	0.25	0.5	Total		E-16110	26-Oct-18	29-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.94	0.25	0.5	Dissolved		E-16110	26-Oct-18	29-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	26-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0398	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0411	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.181	0.0125	0.025	Total		E-16069	07-Aug-18	26-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.137	0.0125	0.025	Dissolved		E-16069	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	26-Oct-18
Copper (Cu)	EPA 1640	µg/L	6.7	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	6.13	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	30.3	0.5	1	Total		E-16069	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	0.785	0.5	1	Dissolved	J	E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0237	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	13.2	0.01	0.02	Total		E-16069	07-Aug-18	26-Oct-18
Manganese (Mn)	EPA 1640	µg/L	13.8	0.01	0.02	Dissolved		E-16069	07-Aug-18	26-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15062	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15062	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	9.38	0.005	0.01	Total		E-16069	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.16	0.005	0.01	Dissolved		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.212	0.0025	0.005	Total		E-16069	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.201	0.0025	0.005	Dissolved		E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.0108	0.005	0.015	Total	J	E-16069	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640		0.011	0.005	0.015	Dissolved	J	E-16069	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16069	07-Aug-18	26-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16069	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16069	07-Aug-18	26-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16069	07-Aug-18	26-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00631	0.005	0.01	Total	J	E-16069	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00759	0.005	0.01	Dissolved	J	E-16069	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	13.5	0.035	0.07	Total		E-16069	07-Aug-18	26-Oct-18
Titanium (Ti)	EPA 1640	µg/L	15.1	0.035	0.07	Dissolved		E-16069	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.1	0.02	0.04	Total		E-16069	07-Aug-18	26-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.08	0.02	0.04	Dissolved		E-16069	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	32.5	0.0025	0.005	Total		E-16069	07-Aug-18	26-Oct-18
Zinc (Zn)	EPA 1640	µg/L	33.7	0.0025	0.005	Dissolved		E-16069	07-Aug-18	26-Oct-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56400-R1	**B18-10015**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**13:35**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	82			Total		O-20036	13-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	103			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	94			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	98			Total		O-20036	13-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	54			Total		O-20036	13-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56401-R1	**B18-10016**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**12:00**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	85			Total		O-20036	13-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	90			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	91			Total		O-20036	13-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	71			Total		O-20036	13-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56402-R1	**B18-10438 (overdraw)**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**15:35**	**Received: 13-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	84			Total		O-20036	13-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	102			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	84			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	87			Total		O-20036	13-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20036	13-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	1.1	1	5	Total	J	O-20036	13-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56403-R1	**B18-10020**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**6:45**	**Received: 13-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	84			Total		O-20036	13-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	88			Total		O-20036	13-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	87			Total		O-20036	13-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	69			Total		O-20036	13-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56404-R1	**B18-10073**		**Matrix: Seawater**			**Sampled: 12-Jul-18**	**10:45**	**Received: 13-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	88			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	103			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	94			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	96			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56405-R1	**B18-10074**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**9:35**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	92			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	91			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	48			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56406-R1	**B18-10075**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**8:10**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	67			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	89			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	93			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	41			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56407-R1	**B18-10017**		**Matrix: Seawater**			**Sampled: 13-Jul-18**	**8:10**	**Received: 13-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	83			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	83			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	85			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56408-R1	**B18-10019**		**Matrix: Seawater**			**Sampled: 13-Jul-18**		**6:30**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	93			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	105			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	94			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	93			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	76			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	1.02	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	1.9	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	1.13	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56409-R1	**B18-10069**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**11:45**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	81			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	101			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	82			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	86			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	52			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56410-R1	**B18-10070**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**10:30**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	93			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	106			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	87			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	90			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	72			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56411-R1	**B18-10071**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**9:30**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	79			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	100			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	87			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	84			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	61			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	1.39	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	1.01	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	1.17	1	5	Total	J	O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56412-R1	**B18-10072**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**13:30**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	82			Total		O-20036	13-Jul-18	05-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	101			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	92			Total		O-20036	13-Jul-18	05-Aug-18
(d12-Perylene)	EPA 625	% Recovery	89			Total		O-20036	13-Jul-18	05-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20036	13-Jul-18	05-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20036	13-Jul-18	05-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56400-R1	**B18-10015**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**13:35**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56401-R1	**B18-10016**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**12:00**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56402-R1	**B18-10438 (overdraw)**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**15:35**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56403-R1	**B18-10020**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**6:45**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56404-R1	**B18-10073**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**10:45**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56405-R1	**B18-10074**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**9:35**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56406-R1	**B18-10075**		**Matrix: Seawater**			**Sampled: 12-Jul-18**		**8:10**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56407-R1	**B18-10017**		**Matrix: Seawater**			**Sampled: 13-Jul-18**		**8:10**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56408-R1	**B18-10019**		**Matrix: Seawater**			**Sampled: 13-Jul-18**		**6:30**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56409-R1	**B18-10069**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**11:45**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56410-R1	**B18-10070**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**10:30**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56411-R1	**B18-10071**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**9:30**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18
Sample ID: 56412-R1	**B18-10072**		**Matrix: Seawater**			**Sampled: 11-Jul-18**		**13:30**	**Received: 13-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19114	26-Jul-18	26-Jul-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 31-Jul-18**			**Analyzed: 31-Jul-18**		
56398-B1	QAQC Procedural Blank	C-39012	ND	0.007	0.03	mg/L									
56398-BS1	QAQC Procedural Blank	C-39012	0.0244	0.007	0.03	mg/L	0.025	0	98	62 - 157%	PASS				
56398-BS2	QAQC Procedural Blank	C-39012	0.024	0.007	0.03	mg/L	0.025	0	96	62 - 157%	PASS	2	30	PASS	
56406-MS1	B18-10075	C-39012	0.0504	0.007	0.03	mg/L	0.025	0.0256	99	17 - 186%	PASS				
56406-MS2	B18-10075	C-39012	0.0497	0.007	0.03	mg/L	0.025	0.0256	96	17 - 186%	PASS	3	30	PASS	
56406-R2	B18-10075	C-39012	0.0251	0.007	0.03	mg/L						4	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 13-Jul-18**			**Analyzed: 25-Jul-18**		
56398-B1	QAQC Procedural Blank	O-16055	ND	0.14	0.2	mg/L									
56398-BS1	QAQC Procedural Blank	O-16055	8.85	0.14	0.2	mg/L	10	0	89	67 - 114%	PASS				
56398-BS2	QAQC Procedural Blank	O-16055	8.51	0.14	0.2	mg/L	10	0	85	67 - 114%	PASS	5	30	PASS	
56400-MS1	B18-10015	O-16055	12.5	0.14	0.2	mg/L	10	1.97	105	50 - 150%	PASS				
56400-MS2	B18-10015	O-16055	12.1	0.14	0.2	mg/L	10	1.97	101	50 - 150%	PASS	4	30	PASS	
56400-R2	B18-10015	O-16055	1.96	0.14	0.2	mg/L						1	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**				**Prepared: 13-Jul-18**			**Analyzed: 13-Jul-18**		
56398-B1	QAQC Procedural Blank	C-38028	ND	0.005	0.025	mg/L									
56398-BS1	QAQC Procedural Blank	C-38028	0.0792	0.005	0.025	mg/L	0.1	0	79	15 - 152%	PASS				
56398-BS2	QAQC Procedural Blank	C-38028	0.0906	0.005	0.025	mg/L	0.1	0	91	15 - 152%	PASS	14	30	PASS	
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**				**Prepared: 06-Sep-18**			**Analyzed: 06-Sep-18**		
56398-B1	QAQC Procedural Blank	C-38099	ND	0.01	0.02	mg/L									
56398-BS1	QAQC Procedural Blank	C-38099	0.51	0.01	0.02	mg/L	0.5	0	102	68 - 135%	PASS				
56398-BS2	QAQC Procedural Blank	C-38099	0.508	0.01	0.02	mg/L	0.5	0	102	68 - 135%	PASS	0	30	PASS	
56412-MS1	B18-10072	C-38099	0.595	0.01	0.02	mg/L	0.5	0.0227	114	36 - 176%	PASS				
56412-MS2	B18-10072	C-38099	0.609	0.01	0.02	mg/L	0.5	0.0227	117	36 - 176%	PASS	3	30	PASS	
56412-R2	B18-10072	C-38099	0.0201	0.01	0.02	mg/L						23	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 25-Jul-18**			**Analyzed: 25-Jul-18**		
56398-B1	QAQC Procedural Blank	O-16055	ND	0.14	0.2	mg/L									
56398-BS1	QAQC Procedural Blank	O-16055	8.85	0.14	0.2	mg/L	10	0	89	63 - 133%	PASS				
56398-BS2	QAQC Procedural Blank	O-16055	8.51	0.14	0.2	mg/L	10	0	85	63 - 133%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56400-MS1	B18-10015	O-16055	12.5	0.14	0.2	mg/L	10	1.84	107	50 - 150%	PASS				
56400-MS2	B18-10015	O-16055	12.6	0.14	0.2	mg/L	10	1.84	108	50 - 150%	PASS	1	30	PASS	
56400-R2	B18-10015	O-16055	1.92	0.14	0.2	mg/L						8	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**			**Prepared: 22-Aug-18**			**Analyzed: 22-Aug-18**			
56398-B1	QAQC Procedural Blank	C-38075	ND	0.01	0.02	mg/L									
56398-BS1	QAQC Procedural Blank	C-38075	0.195	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
56398-BS2	QAQC Procedural Blank	C-38075	0.195	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS	0	30	PASS	
56412-MS1	B18-10072	C-38075	0.204	0.01	0.02	mg/L	0.2	0.0236	90	54 - 130%	PASS				
56412-MS2	B18-10072	C-38075	0.208	0.01	0.02	mg/L	0.2	0.0236	92	54 - 130%	PASS	2	30	PASS	
56412-R2	B18-10072	C-38075	0.0199	0.01	0.02	mg/L						31	30	FAIL	J,SL
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**			**Prepared: 16-Jul-18**			**Analyzed: 16-Jul-18**			
56398-B1	QAQC Procedural Blank	C-40003	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56398-B1	**QAQC Procedural Blank**				**Matrix: DI Water**	**Sampled:**				**Received:**		
		Method: EPA 245.7				Batch ID: E-15061		Prepared: 24-Aug-18		Analyzed: 24-Aug-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
		Method: EPA 1640				Batch ID: E-16068		Prepared: 07-Aug-18		Analyzed: 25-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
		Method: EPA 200.8				Batch ID: E-16109		Prepared: 26-Oct-18		Analyzed: 29-Oct-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56398-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18				Analyzed: 24-Aug-18		
Mercury (Hg)	Total	0.964	0.01	0.02	µg/L	1	0	96	84 - 120%	PASS				
	Method: EPA 200.8				Batch ID: E-16109			Prepared: 26-Oct-18				Analyzed: 29-Oct-18		
Barium (Ba)	Total	94.9	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS				
Sample ID: 56398-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15061			Prepared: 24-Aug-18				Analyzed: 24-Aug-18		
Mercury (Hg)	Total	0.961	0.01	0.02	µg/L	1	0	96	84 - 120%	PASS	0	30	PASS	
	Method: EPA 200.8				Batch ID: E-16109			Prepared: 26-Oct-18				Analyzed: 29-Oct-18		
Barium (Ba)	Total	96.1	0.25	0.5	µg/L	100	0	96	89 - 119%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56399-LCM1	**QAQC LCM - Physis Seawater**					**Matrix: Seawater**		**Sampled:**		**Received:**		
	Method: EPA 1640					Batch ID: E-16068		Prepared: 07-Aug-18		Analyzed: 25-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.108	0.01	0.015	µg/L							
Arsenic (As)	Total	1.89	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.112	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.193	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	1.06	0.005	0.01	µg/L							
Iron (Fe)	Total	1.37	0.5	1	µg/L							
Lead (Pb)	Total	0.361	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.0692	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.3	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.505	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.0476	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	0.00829	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	9.68	0.035	0.07	µg/L							
Vanadium (V)	Total	1.92	0.02	0.04	µg/L							
Zinc (Zn)	Total	0.279	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56399-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16068		Prepared: 07-Aug-18				Analyzed: 25-Oct-18	
Aluminum (Al)	Total	19.9	3	6	µg/L	20	0	100	82 - 136%			PASS
Antimony (Sb)	Total	1.5	0.01	0.015	µg/L	20	0.108	7	0 - 57%			PASS
Arsenic (As)	Total	22.8	0.005	0.015	µg/L	20	1.89	105	64 - 133%			PASS
Beryllium (Be)	Total	14.5	0.005	0.01	µg/L	20	0	73	64 - 112%			PASS
Cadmium (Cd)	Total	18.6	0.0025	0.005	µg/L	20	0.112	92	74 - 107%			PASS
Chromium (Cr)	Total	19.8	0.0125	0.025	µg/L	20	0.193	98	87 - 117%			PASS
Cobalt (Co)	Total	19.3	0.005	0.01	µg/L	20	0	96	79 - 112%			PASS
Copper (Cu)	Total	19.3	0.005	0.01	µg/L	20	1.06	91	77 - 107%			PASS
Iron (Fe)	Total	20.6	0.5	1	µg/L	20	1.37	96	36 - 108%			PASS
Lead (Pb)	Total	20.1	0.0025	0.005	µg/L	20	0.361	99	77 - 110%			PASS
Manganese (Mn)	Total	15	0.01	0.02	µg/L	20	0.0692	75	15 - 142%			PASS
Molybdenum (Mo)	Total	28	0.005	0.01	µg/L	20	9.3	94	78 - 108%			PASS
Nickel (Ni)	Total	18.9	0.0025	0.005	µg/L	20	0.505	92	75 - 105%			PASS
Selenium (Se)	Total	19.2	0.005	0.015	µg/L	20	0.0476	96	76 - 119%			PASS
Silver (Ag)	Total	0.0803	0.01	0.02	µg/L	0.1	0	80	61 - 113%			PASS
Thallium (Tl)	Total	19	0.005	0.01	µg/L	20	0.00829	95	72 - 109%			PASS
Tin (Sn)	Total	16.7	0.005	0.01	µg/L	20	0	84	61 - 125%			PASS
Titanium (Ti)	Total	29.6	0.035	0.07	µg/L	20	9.68	100	41 - 143%			PASS
Vanadium (V)	Total	22.5	0.02	0.04	µg/L	20	1.92	103	81 - 127%			PASS
Zinc (Zn)	Total	18.9	0.0025	0.005	µg/L	20	0.279	93	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56399-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16068			Prepared: 07-Aug-18				Analyzed: 25-Oct-18	
Aluminum (Al)	Total	20.9	3	6	µg/L	20	0	104	82 - 136%	PASS	4	30	PASS
Antimony (Sb)	Total	1.54	0.01	0.015	µg/L	20	0.108	7	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	22.2	0.005	0.015	µg/L	20	1.89	102	64 - 133%	PASS	3	30	PASS
Beryllium (Be)	Total	14.4	0.005	0.01	µg/L	20	0	72	64 - 112%	PASS	0	30	PASS
Cadmium (Cd)	Total	19.3	0.0025	0.005	µg/L	20	0.112	96	74 - 107%	PASS	4	30	PASS
Chromium (Cr)	Total	19.7	0.0125	0.025	µg/L	20	0.193	98	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	19.3	0.005	0.01	µg/L	20	0	96	79 - 112%	PASS	0	30	PASS
Copper (Cu)	Total	18.7	0.005	0.01	µg/L	20	1.06	88	77 - 107%	PASS	3	30	PASS
Iron (Fe)	Total	19.8	0.5	1	µg/L	20	1.37	92	36 - 108%	PASS	4	30	PASS
Lead (Pb)	Total	20.1	0.0025	0.005	µg/L	20	0.361	99	77 - 110%	PASS	0	30	PASS
Manganese (Mn)	Total	14.7	0.01	0.02	µg/L	20	0.0692	73	15 - 142%	PASS	3	30	PASS
Molybdenum (Mo)	Total	28.4	0.005	0.01	µg/L	20	9.3	95	78 - 108%	PASS	1	30	PASS
Nickel (Ni)	Total	18.5	0.0025	0.005	µg/L	20	0.505	90	75 - 105%	PASS	2	30	PASS
Selenium (Se)	Total	19.5	0.005	0.015	µg/L	20	0.0476	97	76 - 119%	PASS	1	30	PASS
Silver (Ag)	Total	0.093	0.01	0.02	µg/L	0.1	0	93	61 - 113%	PASS	15	30	PASS
Thallium (Tl)	Total	18.8	0.005	0.01	µg/L	20	0.00829	94	72 - 109%	PASS	1	30	PASS
Tin (Sn)	Total	17.7	0.005	0.01	µg/L	20	0	89	61 - 125%	PASS	6	30	PASS
Titanium (Ti)	Total	30.8	0.035	0.07	µg/L	20	9.68	106	41 - 143%	PASS	6	30	PASS
Vanadium (V)	Total	22.6	0.02	0.04	µg/L	20	1.92	103	81 - 127%	PASS	0	30	PASS
Zinc (Zn)	Total	18.4	0.0025	0.005	µg/L	20	0.279	91	72 - 116%	PASS	2	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56400-MS1	**B18-10015**				**Matrix: Seawater**		**Sampled: 12-Jul-18**	**13:35**		**Received: 13-Jul-18**		
	Method: EPA 1640				Batch ID: E-16068		Prepared: 07-Aug-18			Analyzed: 25-Oct-18		
Aluminum (Al)	Total	96.7	3	6	µg/L	20	60.6	180	82 - 136% FAIL			SH
Antimony (Sb)	Total	1.43	0.01	0.015	µg/L	20	0.126	7	0 - 57% PASS			
Arsenic (As)	Total	23.3	0.005	0.015	µg/L	20	1.95	107	64 - 133% PASS			
Beryllium (Be)	Total	14.1	0.005	0.01	µg/L	20	0	71	64 - 112% PASS			
Cadmium (Cd)	Total	18.5	0.0025	0.005	µg/L	20	0.0357	92	74 - 107% PASS			
Chromium (Cr)	Total	19.7	0.0125	0.025	µg/L	20	0.289	97	87 - 117% PASS			
Cobalt (Co)	Total	19.5	0.005	0.01	µg/L	20	0.122	97	79 - 112% PASS			
Copper (Cu)	Total	20.1	0.005	0.01	µg/L	20	1.25	94	77 - 107% PASS			
Iron (Fe)	Total	53.3	0.5	1	µg/L	20	46.2	35	36 - 108% FAIL			M
Lead (Pb)	Total	20.1	0.0025	0.005	µg/L	20	0.135	100	77 - 110% PASS			
Manganese (Mn)	Total	18.7	0.01	0.02	µg/L	20	19.8	-5	15 - 142% FAIL			M
Molybdenum (Mo)	Total	27.5	0.005	0.01	µg/L	20	8.82	93	78 - 108% PASS			
Nickel (Ni)	Total	18.6	0.0025	0.005	µg/L	20	0.306	91	75 - 105% PASS			
Selenium (Se)	Total	19.1	0.005	0.015	µg/L	20	0.00948	95	76 - 119% PASS			
Silver (Ag)	Total	0.0959	0.01	0.02	µg/L	0.1	0.00556	90	61 - 113% PASS			
Thallium (Tl)	Total	19	0.005	0.01	µg/L	20	0	95	72 - 109% PASS			
Tin (Sn)	Total	16.9	0.005	0.01	µg/L	20	0	84	61 - 125% PASS			
Titanium (Ti)	Total	32.9	0.035	0.07	µg/L	20	13.5	97	41 - 143% PASS			
Vanadium (V)	Total	23.4	0.02	0.04	µg/L	20	2.71	103	81 - 127% PASS			
Zinc (Zn)	Total	19.7	0.0025	0.005	µg/L	20	2.07	88	72 - 116% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56400-MS2	**B18-10015**				**Matrix: Seawater**		**Sampled: 12-Jul-18**		**13:35**		**Received: 13-Jul-18**			
	Method: EPA 1640				Batch ID: E-16068		Prepared: 07-Aug-18				Analyzed: 25-Oct-18			
Aluminum (Al)	Total	81.7	3	6	µg/L	20	60.6	105	82 - 136%	PASS	53	30	FAIL	SH
Antimony (Sb)	Total	1.43	0.01	0.015	µg/L	20	0.126	7	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.95	105	64 - 133%	PASS	2	30	PASS	
Beryllium (Be)	Total	14.4	0.005	0.01	µg/L	20	0	72	64 - 112%	PASS	1	30	PASS	
Cadmium (Cd)	Total	18.9	0.0025	0.005	µg/L	20	0.0357	94	74 - 107%	PASS	2	30	PASS	
Chromium (Cr)	Total	19.8	0.0125	0.025	µg/L	20	0.289	98	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.2	0.005	0.01	µg/L	20	0.122	95	79 - 112%	PASS	2	30	PASS	
Copper (Cu)	Total	18.8	0.005	0.01	µg/L	20	1.25	88	77 - 107%	PASS	7	30	PASS	
Iron (Fe)	Total	56.2	0.5	1	µg/L	20	46.2	50	36 - 108%	PASS	35	30	FAIL	M
Lead (Pb)	Total	20.1	0.0025	0.005	µg/L	20	0.135	100	77 - 110%	PASS	0	30	PASS	
Manganese (Mn)	Total	28.9	0.01	0.02	µg/L	20	19.8	46	15 - 142%	PASS	249	30	FAIL	M
Molybdenum (Mo)	Total	27.5	0.005	0.01	µg/L	20	8.82	93	78 - 108%	PASS	0	30	PASS	
Nickel (Ni)	Total	18	0.0025	0.005	µg/L	20	0.306	88	75 - 105%	PASS	3	30	PASS	
Selenium (Se)	Total	19.2	0.005	0.015	µg/L	20	0.00948	96	76 - 119%	PASS	1	30	PASS	
Silver (Ag)	Total	0.102	0.01	0.02	µg/L	0.1	0.00556	96	61 - 113%	PASS	6	30	PASS	
Thallium (Tl)	Total	18.9	0.005	0.01	µg/L	20	0	94	72 - 109%	PASS	1	30	PASS	
Tin (Sn)	Total	17.3	0.005	0.01	µg/L	20	0	86	61 - 125%	PASS	2	30	PASS	
Titanium (Ti)	Total	33.9	0.035	0.07	µg/L	20	13.5	102	41 - 143%	PASS	5	30	PASS	
Vanadium (V)	Total	23.3	0.02	0.04	µg/L	20	2.71	103	81 - 127%	PASS	0	30	PASS	
Zinc (Zn)	Total	20.4	0.0025	0.005	µg/L	20	2.07	92	72 - 116%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56400-R2	**B18-10015**				**Matrix: Seawater**		**Sampled: 12-Jul-18**	**13:35**		**Received: 13-Jul-18**		
	Method: EPA 1640				Batch ID: E-16068		Prepared: 07-Aug-18			Analyzed: 25-Oct-18		
Aluminum (Al)	Dissolved	13.2	3	6	µg/L					6	30 PASS	
Aluminum (Al)	Total	59.6	3	6	µg/L					3	30 PASS	
Antimony (Sb)	Dissolved	0.132	0.01	0.015	µg/L					8	30 PASS	
Antimony (Sb)	Total	0.128	0.01	0.015	µg/L					3	30 PASS	
Arsenic (As)	Dissolved	1.9	0.005	0.015	µg/L					3	30 PASS	
Arsenic (As)	Total	1.95	0.005	0.015	µg/L					0	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.0361	0.0025	0.005	µg/L					61	30 FAIL	NH
Cadmium (Cd)	Total	0.0384	0.0025	0.005	µg/L					15	30 PASS	
Chromium (Cr)	Dissolved	0.254	0.0125	0.025	µg/L					6	30 PASS	
Chromium (Cr)	Total	0.294	0.0125	0.025	µg/L					3	30 PASS	
Cobalt (Co)	Dissolved	0.111	0.005	0.01	µg/L					8	30 PASS	
Cobalt (Co)	Total	0.119	0.005	0.01	µg/L					5	30 PASS	
Copper (Cu)	Dissolved	1.26	0.005	0.01	µg/L					2	30 PASS	
Copper (Cu)	Total	1.44	0.005	0.01	µg/L					29	30 PASS	
Iron (Fe)	Dissolved	0.721	0.5	1	µg/L					52	30 FAIL	J,SL
Iron (Fe)	Total	45.9	0.5	1	µg/L					1	30 PASS	
Lead (Pb)	Dissolved	0.0383	0.0025	0.005	µg/L					43	30 FAIL	NH
Lead (Pb)	Total	0.135	0.0025	0.005	µg/L					1	30 PASS	
Manganese (Mn)	Dissolved	19.6	0.01	0.02	µg/L					4	30 PASS	
Manganese (Mn)	Total	19.5	0.01	0.02	µg/L					3	30 PASS	
Molybdenum (Mo)	Dissolved	9.09	0.005	0.01	µg/L					5	30 PASS	
Molybdenum (Mo)	Total	8.78	0.005	0.01	µg/L					1	30 PASS	
Nickel (Ni)	Dissolved	0.277	0.0025	0.005	µg/L					37	30 FAIL	NH
Nickel (Ni)	Total	0.309	0.0025	0.005	µg/L					2	30 PASS	
Selenium (Se)	Dissolved	0.02	0.005	0.015	µg/L					76	30 FAIL	SL
Selenium (Se)	Total	0.00729	0.005	0.015	µg/L					46	30 FAIL	J,SL
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Silver (Ag)	Total	ND	0.01	0.02	µg/L					10	30	PASS	
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Thallium (Tl)	Total	ND	0.005	0.01	µg/L					0	30	PASS	
Tin (Sn)	Dissolved	ND	0.005	0.01	µg/L					110	30	FAIL	SL
Tin (Sn)	Total	ND	0.005	0.01	µg/L					0	30	PASS	
Titanium (Ti)	Dissolved	11.4	0.035	0.07	µg/L					10	30	PASS	
Titanium (Ti)	Total	13.8	0.035	0.07	µg/L					4	30	PASS	
Vanadium (V)	Dissolved	2.61	0.02	0.04	µg/L					1	30	PASS	
Vanadium (V)	Total	2.68	0.02	0.04	µg/L					2	30	PASS	
Zinc (Zn)	Dissolved	0.919	0.0025	0.005	µg/L					71	30	FAIL	NH
Zinc (Zn)	Total	1.93	0.0025	0.005	µg/L					13	30	PASS	
Sample ID: 56405-MS1	**B18-10074**				**Matrix: Seawater**			**Sampled: 12-Jul-18**	**9:35**		**Received: 13-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15062			Prepared: 30-Aug-18			Analyzed: 30-Aug-18		
Mercury (Hg)	Total	1.18	0.01	0.02	µg/L	1	0	118	76 - 127% PASS				
Sample ID: 56405-MS2	**B18-10074**				**Matrix: Seawater**			**Sampled: 12-Jul-18**	**9:35**		**Received: 13-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15062			Prepared: 30-Aug-18			Analyzed: 30-Aug-18		
Mercury (Hg)	Total	1.15	0.01	0.02	µg/L	1	0	115	76 - 127% PASS	3	30	PASS	
Sample ID: 56405-R2	**B18-10074**				**Matrix: Seawater**			**Sampled: 12-Jul-18**	**9:35**		**Received: 13-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15062			Prepared: 30-Aug-18			Analyzed: 30-Aug-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30	PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30	PASS	
Sample ID: 56409-MS1	**B18-10069**				**Matrix: Seawater**			**Sampled: 11-Jul-18**	**11:45**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16109			Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Total	105	0.25	0.5	µg/L	100	5.78	99	90 - 120% PASS				
Sample ID: 56409-MS2	**B18-10069**				**Matrix: Seawater**			**Sampled: 11-Jul-18**	**11:45**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16109			Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Total	105	0.25	0.5	µg/L	100	5.78	99	90 - 120% PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56409-R2	**B18-10069**				**Matrix: Seawater**		**Sampled: 11-Jul-18**	**11:45**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16109		Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Dissolved	8.83	0.25	0.5	µg/L					25	30 PASS	
Barium (Ba)	Total	5.89	0.25	0.5	µg/L					4	30 PASS	
Sample ID: 56410-MS1	**B18-10070**				**Matrix: Seawater**		**Sampled: 11-Jul-18**	**10:30**		**Received: 13-Jul-18**		
	Method: EPA 1640				Batch ID: E-16069		Prepared: 07-Aug-18			Analyzed: 26-Oct-18		
Aluminum (Al)	Total	91.2	3	6	µg/L	20	66	126	82 - 136%	PASS		
Antimony (Sb)	Total	2.13	0.01	0.015	µg/L	20	0.121	10	0 - 57%	PASS		
Arsenic (As)	Total	24.2	0.005	0.015	µg/L	20	1.61	113	64 - 133%	PASS		
Beryllium (Be)	Total	14.4	0.005	0.01	µg/L	20	0	72	64 - 112%	PASS		
Cadmium (Cd)	Total	18.5	0.0025	0.005	µg/L	20	0.0312	92	74 - 107%	PASS		
Chromium (Cr)	Total	20.3	0.0125	0.025	µg/L	20	0.226	100	87 - 117%	PASS		
Cobalt (Co)	Total	19.4	0.005	0.01	µg/L	20	0.017	97	79 - 112%	PASS		
Copper (Cu)	Total	26.9	0.005	0.01	µg/L	20	6.07	104	77 - 107%	PASS		
Iron (Fe)	Total	63.6	0.5	1	µg/L	20	38.7	124	36 - 108%	FAIL		M
Lead (Pb)	Total	21	0.0025	0.005	µg/L	20	0.0543	105	77 - 110%	PASS		
Manganese (Mn)	Total	15.9	0.01	0.02	µg/L	20	4.1	59	15 - 142%	PASS		
Molybdenum (Mo)	Total	28.7	0.005	0.01	µg/L	20	8.74	100	78 - 108%	PASS		
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.281	94	75 - 105%	PASS		
Selenium (Se)	Total	17.9	0.005	0.015		20	0.0214	89	76 - 119%	PASS		
Silver (Ag)	Total	0.0998	0.01	0.02	µg/L	0.1	0	100	61 - 113%	PASS		
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.00389	91	72 - 109%	PASS		
Tin (Sn)	Total	17.5	0.005	0.01	µg/L	20	0.0186	87	61 - 125%	PASS		
Titanium (Ti)	Total	33.6	0.035	0.07	µg/L	20	20.3	66	41 - 143%	PASS		
Vanadium (V)	Total	23.6	0.02	0.04	µg/L	20	2.32	106	81 - 127%	PASS		
Zinc (Zn)	Total	36.4	0.0025	0.005	µg/L	20	17.2	96	72 - 116%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56410-MS2	**B18-10070**				**Matrix: Seawater**		**Sampled: 11-Jul-18**		**10:30**		**Received: 13-Jul-18**			
	Method: EPA 1640				Batch ID: E-16069		Prepared: 07-Aug-18				Analyzed: 26-Oct-18			
Aluminum (Al)	Total	90.3	3	6	µg/L	20	66	122	82 - 136%	PASS	3	30	PASS	
Antimony (Sb)	Total	2.13	0.01	0.015	µg/L	20	0.121	10	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	24.2	0.005	0.015	µg/L	20	1.61	113	64 - 133%	PASS	0	30	PASS	
Beryllium (Be)	Total	14.4	0.005	0.01	µg/L	20	0	72	64 - 112%	PASS	0	30	PASS	
Cadmium (Cd)	Total	18.7	0.0025	0.005	µg/L	20	0.0312	93	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20.5	0.0125	0.025	µg/L	20	0.226	101	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.4	0.005	0.01	µg/L	20	0.017	97	79 - 112%	PASS	0	30	PASS	
Copper (Cu)	Total	27.1	0.005	0.01	µg/L	20	6.07	105	77 - 107%	PASS	1	30	PASS	
Iron (Fe)	Total	63.9	0.5	1	µg/L	20	38.7	126	36 - 108%	FAIL	2	30	PASS	M
Lead (Pb)	Total	21	0.0025	0.005	µg/L	20	0.0543	105	77 - 110%	PASS	0	30	PASS	
Manganese (Mn)	Total	18.3	0.01	0.02	µg/L	20	4.1	71	15 - 142%	PASS	18	30	PASS	
Molybdenum (Mo)	Total	28.9	0.005	0.01	µg/L	20	8.74	101	78 - 108%	PASS	1	30	PASS	
Nickel (Ni)	Total	19.1	0.0025	0.005	µg/L	20	0.281	94	75 - 105%	PASS	0	30	PASS	
Selenium (Se)	Total	17.9	0.005	0.015		20	0.0214	89	76 - 119%	PASS	0	30	PASS	
Silver (Ag)	Total	0.0979	0.01	0.02	µg/L	0.1	0	98	61 - 113%	PASS	2	30	PASS	
Thallium (Tl)	Total	18.2	0.005	0.01	µg/L	20	0.00389	91	72 - 109%	PASS	0	30	PASS	
Tin (Sn)	Total	18.2	0.005	0.01	µg/L	20	0.0186	91	61 - 125%	PASS	4	30	PASS	
Titanium (Ti)	Total	34.9	0.035	0.07	µg/L	20	20.3	73	41 - 143%	PASS	10	30	PASS	
Vanadium (V)	Total	23.9	0.02	0.04	µg/L	20	2.32	108	81 - 127%	PASS	2	30	PASS	
Zinc (Zn)	Total	36	0.0025	0.005	µg/L	20	17.2	94	72 - 116%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56410-R2	**B18-10070**				**Matrix: Seawater**		**Sampled: 11-Jul-18**	**10:30**		**Received: 13-Jul-18**		
	Method: EPA 1640				Batch ID: E-16069		Prepared: 07-Aug-18			Analyzed: 25-Oct-18		
Aluminum (Al)	Dissolved	15.5	3	6	µg/L					4	30 PASS	
Aluminum (Al)	Total	66.1	3	6	µg/L					0	30 PASS	
Antimony (Sb)	Dissolved	0.13	0.01	0.015	µg/L					2	30 PASS	
Antimony (Sb)	Total	0.126	0.01	0.015	µg/L					7	30 PASS	
Arsenic (As)	Dissolved	1.53	0.005	0.015	µg/L					9	30 PASS	
Arsenic (As)	Total	1.56	0.005	0.015	µg/L					7	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.0344	0.0025	0.005	µg/L					19	30 PASS	
Cadmium (Cd)	Total	0.0328	0.0025	0.005	µg/L					10	30 PASS	
Chromium (Cr)	Dissolved	0.295	0.0125	0.025	µg/L					12	30 PASS	
Chromium (Cr)	Total	0.231	0.0125	0.025	µg/L					5	30 PASS	
Cobalt (Co)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Cobalt (Co)	Total	0.0229	0.005	0.01	µg/L					70	30 FAIL	SL
Copper (Cu)	Dissolved	5.4	0.005	0.01	µg/L					5	30 PASS	
Copper (Cu)	Total	6.31	0.005	0.01	µg/L					8	30 PASS	
Iron (Fe)	Dissolved	ND	0.5	1	µg/L					0	30 PASS	
Iron (Fe)	Total	41.8	0.5	1	µg/L					16	30 PASS	
Lead (Pb)	Dissolved	0.011	0.0025	0.005	µg/L					60	30 FAIL	SL
Lead (Pb)	Total	0.0564	0.0025	0.005	µg/L					8	30 PASS	
Manganese (Mn)	Dissolved	3.54	0.01	0.02	µg/L					8	30 PASS	
Manganese (Mn)	Total	4.13	0.01	0.02	µg/L					1	30 PASS	
Molybdenum (Mo)	Dissolved	9.26	0.005	0.01	µg/L					4	30 PASS	
Molybdenum (Mo)	Total	8.91	0.005	0.01	µg/L					4	30 PASS	
Nickel (Ni)	Dissolved	0.179	0.0025	0.005	µg/L					14	30 PASS	
Nickel (Ni)	Total	0.29	0.0025	0.005	µg/L					6	30 PASS	
Selenium (Se)	Dissolved	0.0139	0.005	0.015						42	30 FAIL	J,SL
Selenium (Se)	Total	0.0177	0.005	0.015						35	30 FAIL	SL
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Silver (Ag)	Total	ND	0.01	0.02	µg/L					0	30	PASS	
Thallium (Tl)	Dissolved	0.00516	0.005	0.01	µg/L					20	30	PASS	J
Thallium (Tl)	Total	ND	0.005	0.01	µg/L					43	30	FAIL	SL
Tin (Sn)	Dissolved	0.0194	0.005	0.01	µg/L					157	30	FAIL	SL
Tin (Sn)	Total	0.0125	0.005	0.01	µg/L					66	30	FAIL	SL
Titanium (Ti)	Dissolved	10.4	0.035	0.07	µg/L					30	30	PASS	
Titanium (Ti)	Total	22.5	0.035	0.07	µg/L					22	30	PASS	
Vanadium (V)	Dissolved	2.05	0.02	0.04	µg/L					6	30	PASS	
Vanadium (V)	Total	2.33	0.02	0.04	µg/L					1	30	PASS	
Zinc (Zn)	Dissolved	17.4	0.0025	0.005	µg/L					3	30	PASS	
Zinc (Zn)	Total	17	0.0025	0.005	µg/L					3	30	PASS	
Sample ID: 56412-MS1	**B18-10072**				**Matrix: Seawater**			**Sampled: 11-Jul-18**	**13:30**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16110			Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Total	113	0.25	0.5	µg/L	100	7.49	106	90 - 120% PASS				
Sample ID: 56412-MS2	**B18-10072**				**Matrix: Seawater**			**Sampled: 11-Jul-18**	**13:30**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16110			Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Total	115	0.25	0.5	µg/L	100	7.49	108	90 - 120% PASS	2	30	PASS	
Sample ID: 56412-R2	**B18-10072**				**Matrix: Seawater**			**Sampled: 11-Jul-18**	**13:30**		**Received: 13-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16110			Prepared: 26-Oct-18			Analyzed: 29-Oct-18		
Barium (Ba)	Dissolved	5.18	0.25	0.5	µg/L					29	30	PASS	
Barium (Ba)	Total	6.6	0.25	0.5	µg/L					24	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57244-B1	**QAQC Procedural Blank**				**Matrix: DI Water**	**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15062	Prepared: 30-Aug-18				Analyzed: 30-Aug-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16069	Prepared: 07-Aug-18				Analyzed: 25-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015								
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16110	Prepared: 26-Oct-18				Analyzed: 29-Oct-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57244-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15062			Prepared: 30-Aug-18				Analyzed: 30-Aug-18		
Mercury (Hg)	Total	0.973	0.01	0.02	µg/L	1	0	97	84 - 120%	PASS				
	Method: EPA 200.8				Batch ID: E-16110			Prepared: 26-Oct-18				Analyzed: 29-Oct-18		
Barium (Ba)	Total	94.6	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS				
Sample ID: 57244-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15062			Prepared: 30-Aug-18				Analyzed: 30-Aug-18		
Mercury (Hg)	Total	0.986	0.01	0.02	µg/L	1	0	99	84 - 120%	PASS	2	30	PASS	
	Method: EPA 200.8				Batch ID: E-16110			Prepared: 26-Oct-18				Analyzed: 29-Oct-18		
Barium (Ba)	Total	94.6	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57245-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**			**Received:**		
	Method: EPA 1640				Batch ID: E-16069		Prepared: 07-Aug-18			Analyzed: 25-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.0391	0.01	0.015	µg/L							
Arsenic (As)	Total	2.14	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.114	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.194	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	0.115	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.0858	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.67	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.337	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.038	0.005	0.015								
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	0.00682	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	17.7	0.035	0.07	µg/L							
Vanadium (V)	Total	2.06	0.02	0.04	µg/L							
Zinc (Zn)	Total	3.74	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57245-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16069		Prepared: 07-Aug-18				Analyzed: 26-Oct-18	
Aluminum (Al)	Total	22.3	3	6	µg/L	20	0	112	82 - 136%		PASS	
Antimony (Sb)	Total	0.423	0.01	0.015	µg/L	20	0.0391	2	0 - 57%		PASS	
Arsenic (As)	Total	24.2	0.005	0.015	µg/L	20	2.14	110	64 - 133%		PASS	
Beryllium (Be)	Total	15.2	0.005	0.01	µg/L	20	0	76	64 - 112%		PASS	
Cadmium (Cd)	Total	19.1	0.0025	0.005	µg/L	20	0.114	95	74 - 107%		PASS	
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.194	103	87 - 117%		PASS	
Cobalt (Co)	Total	19.7	0.005	0.01	µg/L	20	0	99	79 - 112%		PASS	
Copper (Cu)	Total	18.9	0.005	0.01	µg/L	20	0	94	77 - 107%		PASS	
Iron (Fe)	Total	19	0.5	1	µg/L	20	0	95	36 - 108%		PASS	
Lead (Pb)	Total	19.7	0.0025	0.005	µg/L	20	0.115	98	77 - 110%		PASS	
Manganese (Mn)	Total	14.7	0.01	0.02	µg/L	20	0.0858	73	15 - 142%		PASS	
Molybdenum (Mo)	Total	28.3	0.005	0.01	µg/L	20	9.67	93	78 - 108%		PASS	
Nickel (Ni)	Total	18.7	0.0025	0.005	µg/L	20	0.337	92	75 - 105%		PASS	
Selenium (Se)	Total	18.7	0.005	0.015		20	0.038	93	76 - 119%		PASS	
Silver (Ag)	Total	0.0974	0.01	0.02	µg/L	0.1	0	97	61 - 113%		PASS	
Thallium (Tl)	Total	18.4	0.005	0.01	µg/L	20	0.00682	92	72 - 109%		PASS	
Tin (Sn)	Total	18	0.005	0.01	µg/L	20	0	90	61 - 125%		PASS	
Titanium (Ti)	Total	32.7	0.035	0.07	µg/L	20	17.7	75	41 - 143%		PASS	
Vanadium (V)	Total	23.7	0.02	0.04	µg/L	20	2.06	108	81 - 127%		PASS	
Zinc (Zn)	Total	19.4	0.0025	0.005	µg/L	20	3.74	78	72 - 116%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57245-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16069			Prepared: 07-Aug-18				Analyzed: 26-Oct-18	
Aluminum (Al)	Total	22.3	3	6	µg/L	20	0	112	82 - 136%	PASS	0	30	PASS
Antimony (Sb)	Total	0.429	0.01	0.015	µg/L	20	0.0391	2	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	24.1	0.005	0.015	µg/L	20	2.14	110	64 - 133%	PASS	0	30	PASS
Beryllium (Be)	Total	15	0.005	0.01	µg/L	20	0	75	64 - 112%	PASS	1	30	PASS
Cadmium (Cd)	Total	19	0.0025	0.005	µg/L	20	0.114	94	74 - 107%	PASS	1	30	PASS
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.194	103	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	19.7	0.005	0.01	µg/L	20	0	99	79 - 112%	PASS	0	30	PASS
Copper (Cu)	Total	18.9	0.005	0.01	µg/L	20	0	94	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	18.8	0.5	1	µg/L	20	0	94	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	19.6	0.0025	0.005	µg/L	20	0.115	97	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	14.6	0.01	0.02	µg/L	20	0.0858	73	15 - 142%	PASS	0	30	PASS
Molybdenum (Mo)	Total	28.6	0.005	0.01	µg/L	20	9.67	95	78 - 108%	PASS	2	30	PASS
Nickel (Ni)	Total	18.7	0.0025	0.005	µg/L	20	0.337	92	75 - 105%	PASS	0	30	PASS
Selenium (Se)	Total	17	0.005	0.015		20	0.038	85	76 - 119%	PASS	9	30	PASS
Silver (Ag)	Total	0.107	0.01	0.02	µg/L	0.1	0	107	61 - 113%	PASS	10	30	PASS
Thallium (Tl)	Total	18.4	0.005	0.01	µg/L	20	0.00682	92	72 - 109%	PASS	0	30	PASS
Tin (Sn)	Total	18.1	0.005	0.01	µg/L	20	0	91	61 - 125%	PASS	0	30	PASS
Titanium (Ti)	Total	34.5	0.035	0.07	µg/L	20	17.7	84	41 - 143%	PASS	11	30	PASS
Vanadium (V)	Total	24	0.02	0.04	µg/L	20	2.06	110	81 - 127%	PASS	2	30	PASS
Zinc (Zn)	Total	19.4	0.0025	0.005	µg/L	20	3.74	78	72 - 116%	PASS	0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56398-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20036		Prepared: 12-Jul-18				Analyzed: 04-Aug-18	
(d10-Acenaphthene)	Total	97			% Recovery	100	97	65 - 113%	PASS			
(d10-Phenanthrene)	Total	102			% Recovery	100	102	80 - 111%	PASS			
(d12-Chrysene)	Total	103			% Recovery	100	103	60 - 139%	PASS			
(d12-Perylene)	Total	105			% Recovery	100	105	36 - 161%	PASS			
(d8-Naphthalene)	Total	75			% Recovery	100	75	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

Sample ID: 56398-BS1 **QAQC Procedural Blank** **Matrix: DI Water** **Sampled:** **Received:**

Method: EPA 625 Batch ID: O-20036 Prepared: 12-Jul-18 Analyzed: 04-Aug-18

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
(d10-Acenaphthene)	Total	91			% Recovery	100	0	91	65 - 113%		PASS	
(d10-Phenanthrene)	Total	100			% Recovery	100	0	100	80 - 111%		PASS	
(d12-Chrysene)	Total	99			% Recovery	100	0	99	60 - 139%		PASS	
(d12-Perylene)	Total	100			% Recovery	100	0	100	36 - 161%		PASS	
(d8-Naphthalene)	Total	66			% Recovery	100	0	66	44 - 119%		PASS	
1-Methylnaphthalene	Total	418	1	5	ng/L	500	0	84	49 - 117%		PASS	
1-Methylphenanthrene	Total	455	1	5	ng/L	500	0	91	66 - 127%		PASS	
2,3,5-Trimethylnaphthalene	Total	472	1	5	ng/L	500	0	94	57 - 120%		PASS	
2,6-Dimethylnaphthalene	Total	447	1	5	ng/L	500	0	89	54 - 117%		PASS	
2-Methylnaphthalene	Total	412	1	5	ng/L	500	0	82	47 - 130%		PASS	
Acenaphthene	Total	470	1	5	ng/L	500	0	94	53 - 131%		PASS	
Acenaphthylene	Total	451	1	5	ng/L	500	0	90	43 - 140%		PASS	
Anthracene	Total	479	1	5	ng/L	500	0	96	58 - 135%		PASS	
Benz[a]anthracene	Total	503	1	5	ng/L	500	0	101	55 - 145%		PASS	
Benzo[a]pyrene	Total	504	1	5	ng/L	500	0	101	51 - 143%		PASS	
Benzo[b]fluoranthene	Total	390	1	5	ng/L	500	0	78	46 - 165%		PASS	
Benzo[e]pyrene	Total	416	1	5	ng/L	500	0	83	42 - 152%		PASS	
Benzo[g,h,i]perylene	Total	512	1	5	ng/L	500	0	102	63 - 133%		PASS	
Benzo[k]fluoranthene	Total	451	1	5	ng/L	500	0	90	56 - 145%		PASS	
Biphenyl	Total	464	1	5	ng/L	500	0	93	56 - 119%		PASS	
Chrysene	Total	486	1	5	ng/L	500	0	97	56 - 141%		PASS	
Dibenz[a,h]anthracene	Total	520	1	5	ng/L	500	0	104	55 - 150%		PASS	
Dibenzothiophene	Total	475	1	5	ng/L	500	0	95	75 - 113%		PASS	
Fluoranthene	Total	454	1	5	ng/L	500	0	91	60 - 146%		PASS	
Fluorene	Total	480	1	5	ng/L	500	0	96	58 - 131%		PASS	
Indeno[1,2,3-cd]pyrene	Total	469	1	5	ng/L	500	0	94	50 - 151%		PASS	
Naphthalene	Total	364	1	5	ng/L	500	0	73	41 - 126%		PASS	
Perylene	Total	441	1	5	ng/L	500	0	88	48 - 141%		PASS	
Phenanthrene	Total	481	1	5	ng/L	500	0	96	67 - 127%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	448	1	5	ng/L	500	0	90	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56398-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20036			Prepared: 12-Jul-18				Analyzed: 04-Aug-18	
(d10-Acenaphthene)	Total	87			% Recovery	100	0	87	65 - 113%	PASS	4	30 PASS	
(d10-Phenanthrene)	Total	99			% Recovery	100	0	99	80 - 111%	PASS	1	30 PASS	
(d12-Chrysene)	Total	102			% Recovery	100	0	102	60 - 139%	PASS	3	30 PASS	
(d12-Perylene)	Total	99			% Recovery	100	0	99	36 - 161%	PASS	1	30 PASS	
(d8-Naphthalene)	Total	78			% Recovery	100	0	78	44 - 119%	PASS	17	30 PASS	
1-Methylnaphthalene	Total	434	1	5	ng/L	500	0	87	49 - 117%	PASS	4	30 PASS	
1-Methylphenanthrene	Total	453	1	5	ng/L	500	0	91	66 - 127%	PASS	0	30 PASS	
2,3,5-Trimethylnaphthalene	Total	448	1	5	ng/L	500	0	90	57 - 120%	PASS	4	30 PASS	
2,6-Dimethylnaphthalene	Total	442	1	5	ng/L	500	0	88	54 - 117%	PASS	1	30 PASS	
2-Methylnaphthalene	Total	429	1	5	ng/L	500	0	86	47 - 130%	PASS	5	30 PASS	
Acenaphthene	Total	447	1	5	ng/L	500	0	89	53 - 131%	PASS	5	30 PASS	
Acenaphthylene	Total	428	1	5	ng/L	500	0	86	43 - 140%	PASS	5	30 PASS	
Anthracene	Total	482	1	5	ng/L	500	0	96	58 - 135%	PASS	0	30 PASS	
Benz[a]anthracene	Total	510	1	5	ng/L	500	0	102	55 - 145%	PASS	1	30 PASS	
Benzo[a]pyrene	Total	508	1	5	ng/L	500	0	102	51 - 143%	PASS	1	30 PASS	
Benzo[b]fluoranthene	Total	374	1	5	ng/L	500	0	75	46 - 165%	PASS	4	30 PASS	
Benzo[e]pyrene	Total	422	1	5	ng/L	500	0	84	42 - 152%	PASS	1	30 PASS	
Benzo[g,h,i]perylene	Total	481	1	5	ng/L	500	0	96	63 - 133%	PASS	6	30 PASS	
Benzo[k]fluoranthene	Total	443	1	5	ng/L	500	0	89	56 - 145%	PASS	1	30 PASS	
Biphenyl	Total	451	1	5	ng/L	500	0	90	56 - 119%	PASS	3	30 PASS	
Chrysene	Total	506	1	5	ng/L	500	0	101	56 - 141%	PASS	4	30 PASS	
Dibenz[a,h]anthracene	Total	521	1	5	ng/L	500	0	104	55 - 150%	PASS	0	30 PASS	
Dibenzothiophene	Total	473	1	5	ng/L	500	0	95	75 - 113%	PASS	0	30 PASS	
Fluoranthene	Total	443	1	5	ng/L	500	0	89	60 - 146%	PASS	2	30 PASS	
Fluorene	Total	460	1	5	ng/L	500	0	92	58 - 131%	PASS	4	30 PASS	
Indeno[1,2,3-cd]pyrene	Total	452	1	5	ng/L	500	0	90	50 - 151%	PASS	4	30 PASS	
Naphthalene	Total	428	1	5	ng/L	500	0	86	41 - 126%	PASS	16	30 PASS	
Perylene	Total	437	1	5	ng/L	500	0	87	48 - 141%	PASS	1	30 PASS	
Phenanthrene	Total	478	1	5	ng/L	500	0	96	67 - 127%	PASS	0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	435	1	5	ng/L	500	0	87	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56398-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19114			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	ND	1	1	mg/L									
Sample ID: 56398-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19114			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	38.8	1	1	mg/L	40	0	97	70 - 110%	PASS				
Sample ID: 56398-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19114			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	40	1	1	mg/L	40	0	100	70 - 110%	PASS	3	30	PASS	

CHAIN OF CUSTODY

1807003 -003

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/12/2018	13:35	seawater	B18-10015	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	12:00	seawater	B18-10016	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	15:35	seawater	B18-10438 (overdraw)	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	06:45	seawater	B18-10020	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	10:45	seawater	B18-10073	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	09:35	seawater	B18-10074	13	X	X	X	X	X	X	X	X	X	X
	7/12/2018	08:10	seawater	B18-10075	13	X	X	X	X	X	X	X	X	X	X
	7/13/2018	08:10	seawater	B18-10017	13	X	X	X	X	X	X	X	X	X	X
	7/13/2018	06:30	seawater	B18-10019	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Marin Dussler	07/13/18 @ 13:58	
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/11/2018	11:45	seawater	B18-10069	13	X	X	X	X	X	X	X	X	X	X
	7/11/2018	10:30	seawater	B18-10070	13	X	X	X	X	X	X	X	X	X	X
	7/11/2018	09:30	seawater	B18-10071	13	X	X	X	X	X	X	X	X	X	X
	7/11/2018	13:30	seawater	B18-10072	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Mar Arini	07/13/18 13:58	RHS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625
Total Suspended Solids (TSS)	EPA 2540D

Notes:

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-003

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/13/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 6	☐ BLUE ☑ WET ☐ DRY
Start 11:45 End 16:00 ☐ Other:	☐ Other :	☐ None 6 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-005

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/18/2018. A total of 10 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-005

2018 Regional Harbor Monitoring Program Total Samples: 10

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56500	B18-10023		7/16/2018	11:40	Seawater
56501	B18-10030		7/16/2018	14:00	Seawater
56502	B18-10078		7/16/2018	10:00	Seawater
56503	B18-10079		7/16/2018	8:55	Seawater
56504	B18-10117		7/16/2018	7:20	Seawater
56505	B18-10080		7/17/2018	8:00	Seawater
56506	B18-10081		7/17/2018	7:00	Seawater
56507	B18-10082		7/17/2018	9:00	Seawater
56508	B18-10083		7/17/2018	10:00	Seawater
56509	B18-10084		7/17/2018	11:00	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56500-R1	**B18-10023**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0146	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.48	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0064	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.09	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.018	0.01	0.02	NA	J,1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	7.9	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56501-R1	**B18-10030**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0072	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.38	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0092	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.64	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0181	0.01	0.02	NA	J,1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.45	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56502-R1	**B18-10078**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.021	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.43	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.64	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0326	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	12.4	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56503-R1	**B18-10079**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0164	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.55	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0215	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.62	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0324	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	9.9	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56504-R1	**B18-10117**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0085	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.5	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0101	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0301	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	12.4	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56505-R1	**B18-10080**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0254	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.8	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0101	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.78	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0275	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.4	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56506-R1	**B18-10081**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0171	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.68	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0087	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.61	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0254	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	11.2	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56507-R1	**B18-10082**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.015	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.53	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0069	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.6	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0262	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.9	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18
Sample ID: 56508-R1	**B18-10083**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0159	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.28	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.36	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0258	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	11.3	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56509-R1	**B18-10084**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0141	0.007	0.03	NA	J	C-39032	12-Aug-18	12-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.5	0.14	0.2	NA		O-16053	18-Jul-18	23-Jul-18
MBAS	SM 5540 C	mg/L	0.0178	0.005	0.025	NA	J	C-38036	18-Jul-18	18-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.58	0.14	0.2	NA		O-16053	23-Jul-18	23-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0243	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.85	0.5	0.5	NA		C-40006	23-Jul-18	23-Jul-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56500-R1	**B18-10023**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	54.3	3	6	Total		E-16070	07-Sep-18	02-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	02-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.125	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.123	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Total		E-16070	07-Sep-18	02-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.3	0.005	0.015	Dissolved		E-16070	07-Sep-18	02-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.5	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.6	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00891	0.005	0.01	Dissolved	J	E-16070	07-Sep-18	02-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0293	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0236	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.269	0.0125	0.025	Total		E-16070	07-Sep-18	02-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.193	0.0125	0.025	Dissolved		E-16070	07-Sep-18	02-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	02-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.79	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.177	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	33	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.28	0.01	0.02	Total		E-16070	07-Sep-18	02-Oct-18
Manganese (Mn)	EPA 1640	µg/L	0.894	0.01	0.02	Dissolved		E-16070	07-Sep-18	02-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.54	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.9	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.282	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.198	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0228	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.022	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0594	0.01	0.02	Total		E-16070	07-Sep-18	02-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0999	0.01	0.02	Dissolved		E-16070	07-Sep-18	02-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	02-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0118	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	31.2	0.035	0.07	Total		E-16070	07-Sep-18	02-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18	0.035	0.07	Dissolved		E-16070	07-Sep-18	02-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.3	0.02	0.04	Total		E-16070	07-Sep-18	02-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.22	0.02	0.04	Dissolved		E-16070	07-Sep-18	02-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.03	0.0025	0.005	Total		E-16070	07-Sep-18	02-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.14	0.0025	0.005	Dissolved		E-16070	07-Sep-18	02-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56501-R1	**B18-10030**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	62.6	3	6	Total		E-16070	07-Sep-18	02-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	02-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.114	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.159	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.31	0.005	0.015	Total		E-16070	07-Sep-18	02-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.4	0.005	0.015	Dissolved		E-16070	07-Sep-18	02-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.76	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.69	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0113	0.005	0.01	Dissolved		E-16070	07-Sep-18	02-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0457	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0275	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.249	0.0125	0.025	Total		E-16070	07-Sep-18	02-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.199	0.0125	0.025	Dissolved		E-16070	07-Sep-18	02-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	02-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.23	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.76	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	55.9	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0228	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.09	0.01	0.02	Total		E-16070	07-Sep-18	02-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.54	0.01	0.02	Dissolved		E-16070	07-Sep-18	02-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.48	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.83	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.335	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.252	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0243	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0139	0.005	0.015	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0185	0.01	0.02	Total	J	E-16070	07-Sep-18	02-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0459	0.01	0.02	Dissolved		E-16070	07-Sep-18	02-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	02-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	02-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	20.3	0.035	0.07	Total		E-16070	07-Sep-18	02-Oct-18
Titanium (Ti)	EPA 1640	µg/L	28.8	0.035	0.07	Dissolved		E-16070	07-Sep-18	02-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.44	0.02	0.04	Total		E-16070	07-Sep-18	02-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.4	0.02	0.04	Dissolved		E-16070	07-Sep-18	02-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.82	0.0025	0.005	Total		E-16070	07-Sep-18	02-Oct-18
Zinc (Zn)	EPA 1640	µg/L	2.19	0.0025	0.005	Dissolved		E-16070	07-Sep-18	02-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56502-R1	**B18-10078**			**Matrix: Seawater**		**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	148	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.149	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.8	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.38	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00535	0.005	0.01	Total	J	E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0424	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0358	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.403	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.141	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0229	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.44	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.59	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	109	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	0.684	0.5	1	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.195	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.17	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.42	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.09	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.39	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.346	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.302	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0155	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0155	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.103	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	22.1	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	12.5	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.7	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.38	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	15.1	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	10.4	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56503-R1	**B18-10079**			**Matrix: Seawater**		**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	92.8	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.142	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.74	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.49	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00527	0.005	0.01	Total	J	E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.041	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0348	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.298	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.125	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0198	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.21	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.79	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	87.9	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.134	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.09	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.94	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.31	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.04	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.373	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.299	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0198	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.015	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	17.3	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	12.1	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.35	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.57	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.36	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56504-R1	**B18-10117**			**Matrix: Seawater**		**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	102	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.114	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.133	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.45	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.63	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.68	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0128	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0114	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0756	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.071	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.297	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.128	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.28	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.703	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	65.3	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.204	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.97	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.37	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.42	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.79	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.351	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.314	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0139	0.005	0.015	Total	J	E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0155	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0102	0.01	0.02	Total	J	E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	25.6	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	13.7	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.61	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.41	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.03	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	8.4	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56505-R1	**B18-10080**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	31.1	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.118	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.151	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.8	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.77	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00685	0.005	0.01	Total	J	E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0205	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0373	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0463	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.188	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.151	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	9.73	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	9.61	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	17.4	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.14	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.33	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.87	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.01	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.286	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.281	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0164	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0122	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	21	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.45	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.3	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	27.3	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	27	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56506-R1	**B18-10081**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	26.4	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.33	3	6	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.118	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.144	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.03	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.58	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00965	0.005	0.01	Total	J	E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.068	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0658	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.175	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.117	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	10.568	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	8.8	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	15.972	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.117	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.16	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.28	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.683	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.71	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.362	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.303	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.027	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0229	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	0.0105	0.01	0.02	Total	J	E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.012	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	15.8	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	9.39	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.34	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.19	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	24	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	23.2	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56507-R1	**B18-10082**			**Matrix: Seawater**		**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	18.2	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.35	3	6	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.122	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.126	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.44	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.22	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.12	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0103	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0387	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0417	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.299	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.137	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	9.74	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	9.16	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	12.9	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.83	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.23	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.8	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.66	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.284	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.249	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.00987	0.005	0.015	Total	J	E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0072	0.005	0.015	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	20.7	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	17.8	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.36	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.49	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	27.9	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	26.3	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56508-R1	**B18-10083**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	32.6	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.02	3	6	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.123	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.132	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.69	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	4.66	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0333	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0382	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.19	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.161	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	6.59	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	5.71	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	17.1	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.8	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.1	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.8	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.83	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.278	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.287	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.00831	0.005	0.015	Total	J	E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0127	0.005	0.015	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	20.4	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	13.2	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.48	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.44	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	18.1	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	18.2	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56509-R1	**B18-10084**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	67.5	3	6	Total		E-16070	07-Sep-18	03-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.18	3	6	Dissolved	J	E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.116	0.01	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.132	0.01	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.77	0.005	0.015	Total		E-16070	07-Sep-18	03-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.26	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.54	0.25	0.5	Total		E-16104	07-Sep-18	17-Oct-18
Barium (Ba)	EPA 200.8	µg/L	5.63	0.25	0.5	Dissolved		E-16104	07-Sep-18	17-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0246	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0172	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0419	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0355	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.41	0.0125	0.025	Total		E-16070	07-Sep-18	03-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.138	0.0125	0.025	Dissolved		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0496	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.86	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.39	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	35.9	0.5	1	Total		E-16070	07-Sep-18	03-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.65	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Manganese (Mn)	EPA 1640	µg/L	1.8	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15063	30-Aug-18	30-Aug-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15063	30-Aug-18	30-Aug-18
Molybdenum (Mo)	EPA 1640	µg/L	8.54	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.85	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.305	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.277	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.012	0.005	0.015	Total	J	E-16070	07-Sep-18	03-Oct-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16070	07-Sep-18	03-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16070	07-Sep-18	03-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	111	0.035	0.07	Total		E-16070	07-Sep-18	03-Oct-18
Titanium (Ti)	EPA 1640	µg/L	14.1	0.035	0.07	Dissolved		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	3.76	0.02	0.04	Total		E-16070	07-Sep-18	03-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.25	0.02	0.04	Dissolved		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	11.2	0.0025	0.005	Total		E-16070	07-Sep-18	03-Oct-18
Zinc (Zn)	EPA 1640	µg/L	18.4	0.0025	0.005	Dissolved		E-16070	07-Sep-18	03-Oct-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56500-R1	**B18-10023**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20042	18-Jul-18	07-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20042	18-Jul-18	07-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	85			Total		O-20042	18-Jul-18	07-Aug-18
(d12-Perylene)	EPA 625	% Recovery	90			Total		O-20042	18-Jul-18	07-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	57			Total		O-20042	18-Jul-18	07-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	1.08	1	5	Total	J	O-20042	18-Jul-18	07-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Fluoranthene	EPA 625	ng/L	1.19	1	5	Total	J	O-20042	18-Jul-18	07-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	07-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56501-R1	**B18-10030**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	76			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	110			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	78			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	92			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	51			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	2.03	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	1.44	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.07	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	5.14	1	5	Total		O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.19	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	2.15	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	2.66	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56502-R1	**B18-10078**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	64			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	79			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	56			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	3.39	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	4.42	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.56	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	2.8	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56503-R1	**B18-10079**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	75			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	79			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	84			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	57			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	1.18	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	1.18	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.86	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	1.43	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	5.52	1	5	Total		O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.01	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.62	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	1.49	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	3.86	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56504-R1	**B18-10117**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	97			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	68			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	78			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	55			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.42	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	2.73	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	1.56	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56505-R1	**B18-10080**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	97			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	78			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	81			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	55			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.46	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	1.34	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	1.69	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	1.38	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56506-R1	**B18-10081**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	75			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	77			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	81			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	57			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.07	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	1.75	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	1.16	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56507-R1	**B18-10082**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	65			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	72			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	77			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	48			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	1.04	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	1.69	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56508-R1	**B18-10083**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	72			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	77			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	55			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.28	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	1.01	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	2.83	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	1.37	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	2.11	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.31	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	2.41	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	1.5	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56509-R1	**B18-10084**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	76			Total		O-20042	18-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	100			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20042	18-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	80			Total		O-20042	18-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	58			Total		O-20042	18-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.04	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	1.52	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	2.73	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.22	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20042	18-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	1.84	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	1.83	1	5	Total	J	O-20042	18-Jul-18	08-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56500-R1	**B18-10023**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56501-R1	**B18-10030**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56502-R1	**B18-10078**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56503-R1	**B18-10079**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56504-R1	**B18-10117**		**Matrix: Seawater**			**Sampled: 16-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56505-R1	**B18-10080**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56506-R1	**B18-10081**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56507-R1	**B18-10082**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56508-R1	**B18-10083**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18
Sample ID: 56509-R1	**B18-10084**		**Matrix: Seawater**			**Sampled: 17-Jul-18**			**Received: 18-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19115	26-Jul-18	26-Jul-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 12-Aug-18**			**Analyzed: 12-Aug-18**		
56498-B1	QAQC Procedural Blank	C-39032	ND	0.007	0.03	mg/L									
56498-BS1	QAQC Procedural Blank	C-39032	0.0204	0.007	0.03	mg/L	0.025	0	82	62 - 157%	PASS				
56498-BS2	QAQC Procedural Blank	C-39032	0.0245	0.007	0.03	mg/L	0.025	0	98	62 - 157%	PASS	18	30	PASS	
56500-MS1	B18-10023	C-39032	0.0371	0.007	0.03	mg/L	0.025	0.0155	86	17 - 186%	PASS				
56500-MS2	B18-10023	C-39032	0.0378	0.007	0.03	mg/L	0.025	0.0155	89	17 - 186%	PASS	3	30	PASS	
56500-R2	B18-10023	C-39032	0.0164	0.007	0.03	mg/L						12	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 18-Jul-18**			**Analyzed: 23-Jul-18**		
56498-B1	QAQC Procedural Blank	O-16053	ND	0.14	0.2	mg/L									
56498-BS1	QAQC Procedural Blank	O-16053	8.66	0.14	0.2	mg/L	10	0	87	67 - 114%	PASS				
56498-BS2	QAQC Procedural Blank	O-16053	8.85	0.14	0.2	mg/L	10	0	89	67 - 114%	PASS	2	30	PASS	
56500-MS1	B18-10023	O-16053	12	0.14	0.2	mg/L	10	1.53	105	50 - 150%	PASS				
56500-MS2	B18-10023	O-16053	12.1	0.14	0.2	mg/L	10	1.53	106	50 - 150%	PASS	1	30	PASS	
56500-R2	B18-10023	O-16053	1.58	0.14	0.2	mg/L						7	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**				**Prepared: 18-Jul-18**			**Analyzed: 18-Jul-18**		
56498-B1	QAQC Procedural Blank	C-38036	ND	0.005	0.025	mg/L									
56498-BS1	QAQC Procedural Blank	C-38036	0.117	0.005	0.025	mg/L	0.1	0	117	15 - 152%	PASS				
56498-BS2	QAQC Procedural Blank	C-38036	0.111	0.005	0.025	mg/L	0.1	0	111	15 - 152%	PASS	5	30	PASS	
56500-MS1	B18-10023	C-38036	0.0747	0.005	0.025	mg/L	0.1	0.00575	69	61 - 137%	PASS				
56500-MS2	B18-10023	C-38036	0.082	0.005	0.025	mg/L	0.1	0.00575	76	61 - 137%	PASS	10	30	PASS	
56500-R2	B18-10023	C-38036	0.0051	0.005	0.025	mg/L						23	30	PASS	J
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**				**Prepared: 10-Sep-18**			**Analyzed: 10-Sep-18**		
56498-B1	QAQC Procedural Blank	C-38105	ND	0.01	0.02	mg/L									
56498-BS1	QAQC Procedural Blank	C-38105	0.55	0.01	0.02	mg/L	0.5	0	110	68 - 135%	PASS				
56498-BS2	QAQC Procedural Blank	C-38105	0.524	0.01	0.02	mg/L	0.5	0	105	68 - 135%	PASS	5	30	PASS	
56500-MS1	B18-10023	C-38105	0.53	0.01	0.02	mg/L	0.5	0	106	36 - 176%	PASS				
56500-MS2	B18-10023	C-38105	0.538	0.01	0.02	mg/L	0.5	0	108	36 - 176%	PASS	2	30	PASS	
56500-R2	B18-10023	C-38105	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 23-Jul-18**			**Analyzed: 23-Jul-18**		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56498-B1	QAQC Procedural Blank	O-16053	ND	0.14	0.2	mg/L									
56498-BS1	QAQC Procedural Blank	O-16053	8.66	0.14	0.2	mg/L	10	0	87	63 - 133%	PASS				
56498-BS2	QAQC Procedural Blank	O-16053	8.85	0.14	0.2	mg/L	10	0	89	63 - 133%	PASS	2	30	PASS	
56500-MS1	B18-10023	O-16053	11.5	0.14	0.2	mg/L	10	1.11	104	50 - 150%	PASS				
56500-MS2	B18-10023	O-16053	11.8	0.14	0.2	mg/L	10	1.11	107	50 - 150%	PASS	3	30	PASS	
56500-R2	B18-10023	O-16053	1.14	0.14	0.2	mg/L						4	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**			**Prepared: 23-Aug-18**			**Analyzed: 23-Aug-18**			
56498-B1	QAQC Procedural Blank	C-38078	ND	0.01	0.02	mg/L									
56498-BS1	QAQC Procedural Blank	C-38078	0.194	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
56498-BS2	QAQC Procedural Blank	C-38078	0.202	0.01	0.02	mg/L	0.2	0	101	42 - 153%	PASS	4	30	PASS	
56500-MS1	B18-10023	C-38078	0.207	0.01	0.02	mg/L	0.2	0.0189	94	54 - 130%	PASS				
56500-MS2	B18-10023	C-38078	0.208	0.01	0.02	mg/L	0.2	0.0189	95	54 - 130%	PASS	1	30	PASS	
56500-R2	B18-10023	C-38078	0.0197	0.01	0.02	mg/L						9	30	PASS	J,1
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**			**Prepared: 23-Jul-18**			**Analyzed: 23-Jul-18**			
56498-B1	QAQC Procedural Blank	C-40006	ND	0.5	0.5	mg/L									
56500-R2	B18-10023	C-40006	4.95	0.5	0.5	mg/L						46	30	FAIL	SL

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56498-B1	**QAQC Procedural Blank**					**Matrix: DI Water**		**Sampled:**		**Received:**		
		Method: EPA 245.7				Batch ID: E-15063		Prepared: 30-Aug-18		Analyzed: 30-Aug-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L							
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
		Method: EPA 1640				Batch ID: E-16070		Prepared: 07-Sep-18		Analyzed: 02-Oct-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L							
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Dissolved	ND	0.01	0.015	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Dissolved	ND	0.005	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Dissolved	ND	0.0025	0.005	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Dissolved	ND	0.0125	0.025	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Dissolved	ND	0.005	0.01	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Dissolved	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Dissolved	ND	0.5	1	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Dissolved	ND	0.0025	0.005	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Dissolved	ND	0.01	0.02	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Dissolved	ND	0.005	0.01	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Dissolved	ND	0.0025	0.005	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Selenium (Se)	Dissolved	ND	0.005	0.015	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Dissolved	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Dissolved	ND	0.035	0.07	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Dissolved	ND	0.02	0.04	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Dissolved	ND	0.0025	0.005	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
		Method: EPA 200.8			Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18	
Barium (Ba)	Dissolved	ND	0.25	0.5	µg/L							
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 56498-BS1		**QAQC Procedural Blank**			**Matrix: DI Water**			**Sampled:**			**Received:**	
		Method: EPA 245.7			Batch ID: E-15063			Prepared: 30-Aug-18			Analyzed: 30-Aug-18	
Mercury (Hg)	Total	0.986	0.01	0.02	µg/L	1	0	99	84 - 120% PASS			
		Method: EPA 200.8			Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18	
Barium (Ba)	Total	99.5	0.25	0.5	µg/L	100	0	100	89 - 119% PASS			
Sample ID: 56498-BS2		**QAQC Procedural Blank**			**Matrix: DI Water**			**Sampled:**			**Received:**	
		Method: EPA 245.7			Batch ID: E-15063			Prepared: 30-Aug-18			Analyzed: 30-Aug-18	
Mercury (Hg)	Total	0.981	0.01	0.02	µg/L	1	0	98	84 - 120% PASS	1	30 PASS	
		Method: EPA 200.8			Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18	
Barium (Ba)	Total	99.4	0.25	0.5	µg/L	100	0	99	89 - 119% PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56499-LCM1	**QAQC LCM - Physis Seawater**					**Matrix: Seawater**		**Sampled:**		**Received:**		
	Method: EPA 1640					Batch ID: E-16070		Prepared: 07-Sep-18		Analyzed: 03-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.101	0.01	0.015	µg/L							
Arsenic (As)	Total	1.9	0.005	0.015	µg/L							
Beryllium (Be)	Total	0.0135	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.106	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.227	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	0.546	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.189	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.07	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.381	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.0335	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	22.5	0.035	0.07	µg/L							
Vanadium (V)	Total	2.31	0.02	0.04	µg/L							
Zinc (Zn)	Total	0.339	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56499-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16070		Prepared: 07-Sep-18				Analyzed: 03-Oct-18	
Aluminum (Al)	Total	23.5	3	6	µg/L	20	0	117	82 - 136%			PASS
Antimony (Sb)	Total	1.31	0.01	0.015	µg/L	20	0.101	6	0 - 57%			PASS
Arsenic (As)	Total	23.2	0.005	0.015	µg/L	20	1.9	107	64 - 133%			PASS
Beryllium (Be)	Total	13.3	0.005	0.01	µg/L	20	0.0135	66	64 - 112%			PASS
Cadmium (Cd)	Total	19.4	0.0025	0.005	µg/L	20	0.106	96	74 - 107%			PASS
Chromium (Cr)	Total	20.8	0.0125	0.025	µg/L	20	0.227	103	87 - 117%			PASS
Cobalt (Co)	Total	19.4	0.005	0.01	µg/L	20	0	97	79 - 112%			PASS
Copper (Cu)	Total	19.6	0.005	0.01	µg/L	20	0	98	77 - 107%			PASS
Iron (Fe)	Total	18.6	0.5	1	µg/L	20	0.546	90	36 - 108%			PASS
Lead (Pb)	Total	20.7	0.0025	0.005	µg/L	20	0	104	77 - 110%			PASS
Manganese (Mn)	Total	19.4	0.01	0.02	µg/L	20	0.189	96	15 - 142%			PASS
Molybdenum (Mo)	Total	27.6	0.005	0.01	µg/L	20	9.07	93	78 - 108%			PASS
Nickel (Ni)	Total	19.3	0.0025	0.005	µg/L	20	0.381	95	75 - 105%			PASS
Selenium (Se)	Total	20.2	0.005	0.015	µg/L	20	0.0335	101	76 - 119%			PASS
Silver (Ag)	Total	8.05	0.01	0.02	µg/L	10	0	81	61 - 113%			PASS
Thallium (Tl)	Total	19.8	0.005	0.01	µg/L	20	0	99	72 - 109%			PASS
Tin (Sn)	Total	18	0.005	0.01	µg/L	20	0	90	61 - 125%			PASS
Titanium (Ti)	Total	40.9	0.035	0.07	µg/L	20	22.5	92	41 - 143%			PASS
Vanadium (V)	Total	24.2	0.02	0.04	µg/L	20	2.31	109	81 - 127%			PASS
Zinc (Zn)	Total	17.4	0.0025	0.005	µg/L	20	0.339	85	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56499-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16070			Prepared: 07-Sep-18				Analyzed: 03-Oct-18	
Aluminum (Al)	Total	23.6	3	6	µg/L	20	0	118	82 - 136%	PASS	1	30	PASS
Antimony (Sb)	Total	1.31	0.01	0.015	µg/L	20	0.101	6	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	23.1	0.005	0.015	µg/L	20	1.9	106	64 - 133%	PASS	1	30	PASS
Beryllium (Be)	Total	13.1	0.005	0.01	µg/L	20	0.0135	65	64 - 112%	PASS	2	30	PASS
Cadmium (Cd)	Total	19.6	0.0025	0.005	µg/L	20	0.106	97	74 - 107%	PASS	1	30	PASS
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.227	102	87 - 117%	PASS	1	30	PASS
Cobalt (Co)	Total	19.8	0.005	0.01	µg/L	20	0	99	79 - 112%	PASS	2	30	PASS
Copper (Cu)	Total	19.7	0.005	0.01	µg/L	20	0	99	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	18.8	0.5	1	µg/L	20	0.546	91	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	20.7	0.0025	0.005	µg/L	20	0	104	77 - 110%	PASS	0	30	PASS
Manganese (Mn)	Total	19.1	0.01	0.02	µg/L	20	0.189	95	15 - 142%	PASS	1	30	PASS
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.07	94	78 - 108%	PASS	1	30	PASS
Nickel (Ni)	Total	19.5	0.0025	0.005	µg/L	20	0.381	96	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	20	0.005	0.015	µg/L	20	0.0335	100	76 - 119%	PASS	1	30	PASS
Silver (Ag)	Total	8.54	0.01	0.02	µg/L	10	0	85	61 - 113%	PASS	6	30	PASS
Thallium (Tl)	Total	19.7	0.005	0.01	µg/L	20	0	99	72 - 109%	PASS	1	30	PASS
Tin (Sn)	Total	17.9	0.005	0.01	µg/L	20	0	89	61 - 125%	PASS	0	30	PASS
Titanium (Ti)	Total	40	0.035	0.07	µg/L	20	22.5	88	41 - 143%	PASS	4	30	PASS
Vanadium (V)	Total	24.4	0.02	0.04	µg/L	20	2.31	110	81 - 127%	PASS	1	30	PASS
Zinc (Zn)	Total	23.3	0.0025	0.005	µg/L	20	0.339	115	72 - 116%	PASS	30	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56500-MS1	**B18-10023**				**Matrix: Seawater**		**Sampled: 16-Jul-18**	**11:40**		**Received: 18-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15063		Prepared: 30-Aug-18			Analyzed: 30-Aug-18		
Mercury (Hg)	Total	1.16	0.01	0.02	µg/L	1	0	116	76 - 127%			PASS
	Method: EPA 1640				Batch ID: E-16070		Prepared: 07-Sep-18			Analyzed: 03-Oct-18		
Aluminum (Al)	Total	80.7	3	6	µg/L	20	54.5	131	82 - 136%			PASS
Antimony (Sb)	Total	2.89	0.01	0.015	µg/L	20	0.126	14	0 - 57%			PASS
Arsenic (As)	Total	23.3	0.005	0.015	µg/L	20	1.32	110	64 - 133%			PASS
Beryllium (Be)	Total	13.1	0.005	0.01	µg/L	20	0.00573	65	64 - 112%			PASS
Cadmium (Cd)	Total	18.3	0.0025	0.005	µg/L	20	0.0275	91	74 - 107%			PASS
Chromium (Cr)	Total	20.1	0.0125	0.025	µg/L	20	0.264	99	87 - 117%			PASS
Cobalt (Co)	Total	19.5	0.005	0.01	µg/L	20	0	98	79 - 112%			PASS
Copper (Cu)	Total	19.2	0.005	0.01	µg/L	20	0.896	92	77 - 107%			PASS
Iron (Fe)	Total	50.5	0.5	1	µg/L	20	34.9	78	36 - 108%			PASS
Lead (Pb)	Total	20.3	0.0025	0.005	µg/L	20	0	101	77 - 110%			PASS
Manganese (Mn)	Total	20.2	0.01	0.02	µg/L	20	1.26	95	15 - 142%			PASS
Molybdenum (Mo)	Total	26.8	0.005	0.01	µg/L	20	8.64	91	78 - 108%			PASS
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.287	94	75 - 105%			PASS
Selenium (Se)	Total	20	0.005	0.015	µg/L	20	0.0195	100	76 - 119%			PASS
Silver (Ag)	Total	7.94	0.01	0.02	µg/L	10	0.0397	79	61 - 113%			PASS
Thallium (Tl)	Total	19.6	0.005	0.01	µg/L	20	0	98	72 - 109%			PASS
Tin (Sn)	Total	17.9	0.005	0.01	µg/L	20	0.0112	89	61 - 125%			PASS
Titanium (Ti)	Total	36.4	0.035	0.07	µg/L	20	23.5	65	41 - 143%			PASS
Vanadium (V)	Total	23.7	0.02	0.04	µg/L	20	2.23	107	81 - 127%			PASS
Zinc (Zn)	Total	21.6	0.0025	0.005	µg/L	20	2.8	94	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56500-MS2	**B18-10023**				**Matrix: Seawater**		**Sampled: 16-Jul-18**	**11:40**		**Received: 18-Jul-18**			
	Method: EPA 245.7				Batch ID: E-15063		Prepared: 30-Aug-18			Analyzed: 30-Aug-18			
Mercury (Hg)	Total	1.15	0.01	0.02	µg/L	1	0	115	76 - 127%	PASS	1	30	PASS
	Method: EPA 1640				Batch ID: E-16070		Prepared: 07-Sep-18			Analyzed: 03-Oct-18			
Aluminum (Al)	Total	79.4	3	6	µg/L	20	54.5	125	82 - 136%	PASS	5	30	PASS
Antimony (Sb)	Total	2.82	0.01	0.015	µg/L	20	0.126	13	0 - 57%	PASS	7	30	PASS
Arsenic (As)	Total	23.3	0.005	0.015	µg/L	20	1.32	110	64 - 133%	PASS	0	30	PASS
Beryllium (Be)	Total	12.7	0.005	0.01	µg/L	20	0.00573	63	64 - 112%	FAIL	3	30	PASS
Cadmium (Cd)	Total	18	0.0025	0.005	µg/L	20	0.0275	90	74 - 107%	PASS	1	30	PASS
Chromium (Cr)	Total	20.3	0.0125	0.025	µg/L	20	0.264	100	87 - 117%	PASS	1	30	PASS
Cobalt (Co)	Total	19.6	0.005	0.01	µg/L	20	0	98	79 - 112%	PASS	0	30	PASS
Copper (Cu)	Total	20.1	0.005	0.01	µg/L	20	0.896	96	77 - 107%	PASS	4	30	PASS
Iron (Fe)	Total	52.2	0.5	1	µg/L	20	34.9	86	36 - 108%	PASS	10	30	PASS
Lead (Pb)	Total	20.2	0.0025	0.005	µg/L	20	0	101	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	20.4	0.01	0.02	µg/L	20	1.26	96	15 - 142%	PASS	1	30	PASS
Molybdenum (Mo)	Total	26.3	0.005	0.01	µg/L	20	8.64	88	78 - 108%	PASS	3	30	PASS
Nickel (Ni)	Total	18.8	0.0025	0.005	µg/L	20	0.287	93	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	19.9	0.005	0.015	µg/L	20	0.0195	99	76 - 119%	PASS	1	30	PASS
Silver (Ag)	Total	8.11	0.01	0.02	µg/L	10	0.0397	81	61 - 113%	PASS	2	30	PASS
Thallium (Tl)	Total	19.5	0.005	0.01	µg/L	20	0	98	72 - 109%	PASS	0	30	PASS
Tin (Sn)	Total	16.9	0.005	0.01	µg/L	20	0.0112	84	61 - 125%	PASS	6	30	PASS
Titanium (Ti)	Total	39.4	0.035	0.07	µg/L	20	23.5	80	41 - 143%	PASS	21	30	PASS
Vanadium (V)	Total	24.1	0.02	0.04	µg/L	20	2.23	109	81 - 127%	PASS	2	30	PASS
Zinc (Zn)	Total	19.7	0.0025	0.005	µg/L	20	2.8	85	72 - 116%	PASS	10	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56500-R2	**B18-10023**				**Matrix: Seawater**		**Sampled: 16-Jul-18**	**11:40**		**Received: 18-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15063		Prepared: 30-Aug-18			Analyzed: 30-Aug-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16070		Prepared: 07-Sep-18			Analyzed: 02-Oct-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	54.8	3	6	µg/L					1	30 PASS	
Antimony (Sb)	Dissolved	0.122	0.01	0.015	µg/L					1	30 PASS	
Antimony (Sb)	Total	0.127	0.01	0.015	µg/L					2	30 PASS	
Arsenic (As)	Dissolved	1.33	0.005	0.015	µg/L					2	30 PASS	
Arsenic (As)	Total	1.25	0.005	0.015	µg/L					11	30 PASS	
Beryllium (Be)	Dissolved	0.0101	0.005	0.01	µg/L					13	30 PASS	
Beryllium (Be)	Total	0.0115	0.005	0.01	µg/L					79	30 FAIL	SL
Cadmium (Cd)	Dissolved	0.0234	0.0025	0.005	µg/L					1	30 PASS	
Cadmium (Cd)	Total	0.0257	0.0025	0.005	µg/L					13	30 PASS	
Chromium (Cr)	Dissolved	0.166	0.0125	0.025	µg/L					15	30 PASS	
Chromium (Cr)	Total	0.26	0.0125	0.025	µg/L					3	30 PASS	
Cobalt (Co)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Cobalt (Co)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Copper (Cu)	Dissolved	0.454	0.005	0.01	µg/L					88	30 FAIL	
Copper (Cu)	Total	ND	0.005	0.01	µg/L					199	30 FAIL	SL
Iron (Fe)	Dissolved	ND	0.5	1	µg/L					0	30 PASS	
Iron (Fe)	Total	36.7	0.5	1	µg/L					11	30 PASS	
Lead (Pb)	Dissolved	ND	0.0025	0.005	µg/L					0	30 PASS	
Lead (Pb)	Total	ND	0.0025	0.005	µg/L					0	30 PASS	
Manganese (Mn)	Dissolved	0.914	0.01	0.02	µg/L					2	30 PASS	
Manganese (Mn)	Total	1.24	0.01	0.02	µg/L					3	30 PASS	
Molybdenum (Mo)	Dissolved	8.62	0.005	0.01	µg/L					3	30 PASS	
Molybdenum (Mo)	Total	8.74	0.005	0.01	µg/L					2	30 PASS	
Nickel (Ni)	Dissolved	0.181	0.0025	0.005	µg/L					9	30 PASS	
Nickel (Ni)	Total	0.291	0.0025	0.005	µg/L					3	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	0.00852	0.005	0.015	µg/L					88	30	FAIL	J,SL
Selenium (Se)	Total	0.0162	0.005	0.015	µg/L					34	30	FAIL	SL
Silver (Ag)	Dissolved	0.0465	0.01	0.02	µg/L					73	30	FAIL	SL
Silver (Ag)	Total	0.02	0.01	0.02	µg/L					99	30	FAIL	SL
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Thallium (Tl)	Total	ND	0.005	0.01	µg/L					0	30	PASS	
Tin (Sn)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Tin (Sn)	Total	0.0106	0.005	0.01	µg/L					11	30	PASS	
Titanium (Ti)	Dissolved	14.7	0.035	0.07	µg/L					20	30	PASS	
Titanium (Ti)	Total	15.8	0.035	0.07	µg/L					66	30	FAIL	
Vanadium (V)	Dissolved	2.17	0.02	0.04	µg/L					2	30	PASS	
Vanadium (V)	Total	2.16	0.02	0.04	µg/L					6	30	PASS	
Zinc (Zn)	Dissolved	1.76	0.0025	0.005	µg/L					56	30	FAIL	
Zinc (Zn)	Total	2.56	0.0025	0.005	µg/L					17	30	PASS	
Sample ID: 56509-MS1	**B18-10084**				**Matrix: Seawater**			**Sampled: 17-Jul-18**	**11:00**		**Received: 18-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18		
Barium (Ba)	Total	115	0.25	0.5	µg/L	100	6.26	109	90 - 120% PASS				
Sample ID: 56509-MS2	**B18-10084**				**Matrix: Seawater**			**Sampled: 17-Jul-18**	**11:00**		**Received: 18-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18		
Barium (Ba)	Total	114	0.25	0.5	µg/L	100	6.26	108	90 - 120% PASS	1	30	PASS	
Sample ID: 56509-R2	**B18-10084**				**Matrix: Seawater**			**Sampled: 17-Jul-18**	**11:00**		**Received: 18-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16104			Prepared: 07-Sep-18			Analyzed: 17-Oct-18		
Barium (Ba)	Dissolved	6.53	0.25	0.5	µg/L					15	30	PASS	
Barium (Ba)	Total	5.98	0.25	0.5	µg/L					9	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56498-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20042		Prepared: 18-Jul-18				Analyzed: 07-Aug-18	
(d10-Acenaphthene)	Total	82			% Recovery	100	82	65 - 113%	PASS			
(d10-Phenanthrene)	Total	97			% Recovery	100	97	80 - 111%	PASS			
(d12-Chrysene)	Total	108			% Recovery	100	108	60 - 139%	PASS			
(d12-Perylene)	Total	110			% Recovery	100	110	36 - 161%	PASS			
(d8-Naphthalene)	Total	74			% Recovery	100	74	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56498-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**	
	Method: EPA 625				Batch ID: O-20042			Prepared: 18-Jul-18			Analyzed: 07-Aug-18	
(d10-Acenaphthene)	Total	82			% Recovery	100	0	82	65 - 113%	PASS		
(d10-Phenanthrene)	Total	94			% Recovery	100	0	94	80 - 111%	PASS		
(d12-Chrysene)	Total	108			% Recovery	100	0	108	60 - 139%	PASS		
(d12-Perylene)	Total	108			% Recovery	100	0	108	36 - 161%	PASS		
(d8-Naphthalene)	Total	73			% Recovery	100	0	73	44 - 119%	PASS		
1-Methylnaphthalene	Total	377	1	5	ng/L	500	0	75	49 - 117%	PASS		
1-Methylphenanthrene	Total	441	1	5	ng/L	500	0	88	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	403	1	5	ng/L	500	0	81	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	392	1	5	ng/L	500	0	78	54 - 117%	PASS		
2-Methylnaphthalene	Total	377	1	5	ng/L	500	0	75	47 - 130%	PASS		
Acenaphthene	Total	401	1	5	ng/L	500	0	80	53 - 131%	PASS		
Acenaphthylene	Total	386	1	5	ng/L	500	0	77	43 - 140%	PASS		
Anthracene	Total	449	1	5	ng/L	500	0	90	58 - 135%	PASS		
Benz[a]anthracene	Total	508	1	5	ng/L	500	0	102	55 - 145%	PASS		
Benzo[a]pyrene	Total	546	1	5	ng/L	500	0	109	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	472	1	5	ng/L	500	0	94	46 - 165%	PASS		
Benzo[e]pyrene	Total	455	1	5	ng/L	500	0	91	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	483	1	5	ng/L	500	0	97	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	492	1	5	ng/L	500	0	98	56 - 145%	PASS		
Biphenyl	Total	400	1	5	ng/L	500	0	80	56 - 119%	PASS		
Chrysene	Total	546	1	5	ng/L	500	0	109	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	452	1	5	ng/L	500	0	90	55 - 150%	PASS		
Dibenzothiophene	Total	440	1	5	ng/L	500	0	88	75 - 113%	PASS		
Fluoranthene	Total	453	1	5	ng/L	500	0	91	60 - 146%	PASS		
Fluorene	Total	422	1	5	ng/L	500	0	84	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	413	1	5	ng/L	500	0	83	50 - 151%	PASS		
Naphthalene	Total	372	1	5	ng/L	500	0	74	41 - 126%	PASS		
Perylene	Total	558	1	5	ng/L	500	0	112	48 - 141%	PASS		
Phenanthrene	Total	450	1	5	ng/L	500	0	90	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	443	1	5	ng/L	500	0	89	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56498-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20042			Prepared: 18-Jul-18				Analyzed: 07-Aug-18	
(d10-Acenaphthene)	Total	88			% Recovery	100	0	88	65 - 113%	PASS	7	30 PASS	
(d10-Phenanthrene)	Total	96			% Recovery	100	0	96	80 - 111%	PASS	2	30 PASS	
(d12-Chrysene)	Total	120			% Recovery	100	0	120	60 - 139%	PASS	11	30 PASS	
(d12-Perylene)	Total	112			% Recovery	100	0	112	36 - 161%	PASS	4	30 PASS	
(d8-Naphthalene)	Total	69			% Recovery	100	0	69	44 - 119%	PASS	6	30 PASS	
1-Methylnaphthalene	Total	393	1	5	ng/L	500	0	79	49 - 117%	PASS	5	30 PASS	
1-Methylphenanthrene	Total	441	1	5	ng/L	500	0	88	66 - 127%	PASS	0	30 PASS	
2,3,5-Trimethylnaphthalene	Total	440	1	5	ng/L	500	0	88	57 - 120%	PASS	8	30 PASS	
2,6-Dimethylnaphthalene	Total	418	1	5	ng/L	500	0	84	54 - 117%	PASS	7	30 PASS	
2-Methylnaphthalene	Total	388	1	5	ng/L	500	0	78	47 - 130%	PASS	4	30 PASS	
Acenaphthene	Total	432	1	5	ng/L	500	0	86	53 - 131%	PASS	7	30 PASS	
Acenaphthylene	Total	413	1	5	ng/L	500	0	83	43 - 140%	PASS	8	30 PASS	
Anthracene	Total	456	1	5	ng/L	500	0	91	58 - 135%	PASS	1	30 PASS	
Benz[a]anthracene	Total	544	1	5	ng/L	500	0	109	55 - 145%	PASS	7	30 PASS	
Benzo[a]pyrene	Total	579	1	5	ng/L	500	0	116	51 - 143%	PASS	6	30 PASS	
Benzo[b]fluoranthene	Total	479	1	5	ng/L	500	0	96	46 - 165%	PASS	2	30 PASS	
Benzo[e]pyrene	Total	474	1	5	ng/L	500	0	95	42 - 152%	PASS	4	30 PASS	
Benzo[g,h,i]perylene	Total	544	1	5	ng/L	500	0	109	63 - 133%	PASS	12	30 PASS	
Benzo[k]fluoranthene	Total	505	1	5	ng/L	500	0	101	56 - 145%	PASS	3	30 PASS	
Biphenyl	Total	433	1	5	ng/L	500	0	87	56 - 119%	PASS	8	30 PASS	
Chrysene	Total	609	1	5	ng/L	500	0	122	56 - 141%	PASS	11	30 PASS	
Dibenz[a,h]anthracene	Total	449	1	5	ng/L	500	0	90	55 - 150%	PASS	0	30 PASS	
Dibenzothiophene	Total	456	1	5	ng/L	500	0	91	75 - 113%	PASS	3	30 PASS	
Fluoranthene	Total	445	1	5	ng/L	500	0	89	60 - 146%	PASS	2	30 PASS	
Fluorene	Total	453	1	5	ng/L	500	0	91	58 - 131%	PASS	8	30 PASS	
Indeno[1,2,3-cd]pyrene	Total	484	1	5	ng/L	500	0	97	50 - 151%	PASS	16	30 PASS	
Naphthalene	Total	355	1	5	ng/L	500	0	71	41 - 126%	PASS	4	30 PASS	
Perylene	Total	595	1	5	ng/L	500	0	119	48 - 141%	PASS	6	30 PASS	
Phenanthrene	Total	461	1	5	ng/L	500	0	92	67 - 127%	PASS	2	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	434	1	5	ng/L	500	0	87	54 - 156%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56500-MS1	**B18-10023**				**Matrix: Seawater**			**Sampled: 16-Jul-18**	**11:40**	**Received: 18-Jul-18**		
	Method: EPA 625				Batch ID: O-20042			Prepared: 18-Jul-18		Analyzed: 07-Aug-18		
(d10-Acenaphthene)	Total	69			% Recovery	100	0	69	45 - 118%	PASS		
(d10-Phenanthrene)	Total	94			% Recovery	100	0	94	56 - 123%	PASS		
(d12-Chrysene)	Total	89			% Recovery	100	0	89	36 - 142%	PASS		
(d12-Perylene)	Total	89			% Recovery	100	0	89	36 - 161%	PASS		
(d8-Naphthalene)	Total	39			% Recovery	100	0	39	20 - 112%	PASS		
1-Methylnaphthalene	Total	291	1	5	ng/L	549	0	53	39 - 104%	PASS		
1-Methylphenanthrene	Total	534	1	5	ng/L	549	0	97	62 - 136%	PASS		
2,3,5-Trimethylnaphthalene	Total	420	1	5	ng/L	549	0	77	47 - 132%	PASS		
2,6-Dimethylnaphthalene	Total	355	1	5	ng/L	549	0	65	37 - 118%	PASS		
2-Methylnaphthalene	Total	285	1	5	ng/L	549	1.05	52	33 - 113%	PASS		
Acenaphthene	Total	377	1	5	ng/L	549	0	69	51 - 116%	PASS		
Acenaphthylene	Total	358	1	5	ng/L	549	0	65	53 - 127%	PASS		
Anthracene	Total	496	1	5	ng/L	549	0	90	60 - 126%	PASS		
Benz[a]anthracene	Total	571	1	5	ng/L	549	0	104	51 - 165%	PASS		
Benzo[a]pyrene	Total	492	1	5	ng/L	549	0	90	24 - 170%	PASS		
Benzo[b]fluoranthene	Total	546	1	5	ng/L	549	0	99	38 - 158%	PASS		
Benzo[e]pyrene	Total	495	1	5	ng/L	549	0	90	26 - 157%	PASS		
Benzo[g,h,i]perylene	Total	529	1	5	ng/L	549	0	96	57 - 133%	PASS		
Benzo[k]fluoranthene	Total	509	1	5	ng/L	549	0	93	27 - 167%	PASS		
Biphenyl	Total	355	1	5	ng/L	549	0	65	41 - 111%	PASS		
Chrysene	Total	515	1	5	ng/L	549	0	94	58 - 136%	PASS		
Dibenz[a,h]anthracene	Total	605	1	5	ng/L	549	0	110	53 - 156%	PASS		
Dibenzothiophene	Total	499	1	5	ng/L	549	0	91	69 - 112%	PASS		
Fluoranthene	Total	584	1	5	ng/L	549	1.13	106	61 - 147%	PASS		
Fluorene	Total	436	1	5	ng/L	549	0	79	62 - 120%	PASS		
Indeno[1,2,3-cd]pyrene	Total	567	1	5	ng/L	549	0	103	58 - 147%	PASS		
Naphthalene	Total	221	1	5	ng/L	549	0	40	22 - 110%	PASS		
Perylene	Total	504	1	5	ng/L	549	0	92	34 - 147%	PASS		
Phenanthrene	Total	495	1	5	ng/L	549	0	90	64 - 121%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	588	1	5	ng/L	549	0	107	65 - 146%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56500-MS2	**B18-10023**				**Matrix: Seawater**			**Sampled: 16-Jul-18**	**11:40**		**Received: 18-Jul-18**		
	Method: EPA 625				Batch ID: O-20042			Prepared: 18-Jul-18			Analyzed: 07-Aug-18		
(d10-Acenaphthene)	Total	85			% Recovery	100	0	85	45 - 118%	PASS	21	30	PASS
(d10-Phenanthrene)	Total	101			% Recovery	100	0	101	56 - 123%	PASS	7	30	PASS
(d12-Chrysene)	Total	93			% Recovery	100	0	93	36 - 142%	PASS	4	30	PASS
(d12-Perylene)	Total	94			% Recovery	100	0	94	36 - 161%	PASS	5	30	PASS
(d8-Naphthalene)	Total	68			% Recovery	100	0	68	20 - 112%	PASS	54	30	FAIL
1-Methylnaphthalene	Total	422	1	5	ng/L	556	0	76	39 - 104%	PASS	36	30	FAIL
1-Methylphenanthrene	Total	556	1	5	ng/L	556	0	100	62 - 136%	PASS	3	30	PASS
2,3,5-Trimethylnaphthalene	Total	491	1	5	ng/L	556	0	88	47 - 132%	PASS	13	30	PASS
2,6-Dimethylnaphthalene	Total	456	1	5	ng/L	556	0	82	37 - 118%	PASS	23	30	PASS
2-Methylnaphthalene	Total	425	1	5	ng/L	556	1.05	76	33 - 113%	PASS	38	30	FAIL
Acenaphthene	Total	464	1	5	ng/L	556	0	83	51 - 116%	PASS	18	30	PASS
Acenaphthylene	Total	454	1	5	ng/L	556	0	82	53 - 127%	PASS	23	30	PASS
Anthracene	Total	518	1	5	ng/L	556	0	93	60 - 126%	PASS	3	30	PASS
Benz[a]anthracene	Total	591	1	5	ng/L	556	0	106	51 - 165%	PASS	2	30	PASS
Benzo[a]pyrene	Total	516	1	5	ng/L	556	0	93	24 - 170%	PASS	3	30	PASS
Benzo[b]fluoranthene	Total	596	1	5	ng/L	556	0	107	38 - 158%	PASS	8	30	PASS
Benzo[e]pyrene	Total	537	1	5	ng/L	556	0	97	26 - 157%	PASS	7	30	PASS
Benzo[g,h,i]perylene	Total	531	1	5	ng/L	556	0	96	57 - 133%	PASS	0	30	PASS
Benzo[k]fluoranthene	Total	529	1	5	ng/L	556	0	95	27 - 167%	PASS	2	30	PASS
Biphenyl	Total	457	1	5	ng/L	556	0	82	41 - 111%	PASS	23	30	PASS
Chrysene	Total	532	1	5	ng/L	556	0	96	58 - 136%	PASS	2	30	PASS
Dibenz[a,h]anthracene	Total	614	1	5	ng/L	556	0	110	53 - 156%	PASS	0	30	PASS
Dibenzothiophene	Total	539	1	5	ng/L	556	0	97	69 - 112%	PASS	6	30	PASS
Fluoranthene	Total	588	1	5	ng/L	556	1.13	106	61 - 147%	PASS	0	30	PASS
Fluorene	Total	491	1	5	ng/L	556	0	88	62 - 120%	PASS	11	30	PASS
Indeno[1,2,3-cd]pyrene	Total	587	1	5	ng/L	556	0	106	58 - 147%	PASS	3	30	PASS
Naphthalene	Total	387	1	5	ng/L	556	0	70	22 - 110%	PASS	55	30	FAIL
Perylene	Total	541	1	5	ng/L	556	0	97	34 - 147%	PASS	5	30	PASS
Phenanthrene	Total	523	1	5	ng/L	556	0	94	64 - 121%	PASS	4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	594	1	5	ng/L	556	0	107	65 - 146%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56500-R2	**B18-10023**				**Matrix: Seawater**		**Sampled: 16-Jul-18**		**11:40**		**Received: 18-Jul-18**			
	Method: EPA 625				Batch ID: O-20042		Prepared: 18-Jul-18				Analyzed: 07-Aug-18			
(d10-Acenaphthene)	Total	71			% Recovery	100	71	45 - 118%	PASS	1	30	PASS		
(d10-Phenanthrene)	Total	95			% Recovery	100	95	56 - 123%	PASS	3	30	PASS		
(d12-Chrysene)	Total	76			% Recovery	100	76	36 - 142%	PASS	11	30	PASS		
(d12-Perylene)	Total	80			% Recovery	100	80	36 - 161%	PASS	12	30	PASS		
(d8-Naphthalene)	Total	56			% Recovery	100	56	20 - 112%	PASS	2	30	PASS		
1-Methylnaphthalene	Total	ND	1	5	ng/L					0	30	PASS		
1-Methylphenanthrene	Total	ND	1	5	ng/L					0	30	PASS		
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L					0	30	PASS		
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L					0	30	PASS		
2-Methylnaphthalene	Total	1.01	1	5	ng/L					7	30	PASS		J
Acenaphthene	Total	ND	1	5	ng/L					0	30	PASS		
Acenaphthylene	Total	ND	1	5	ng/L					0	30	PASS		
Anthracene	Total	ND	1	5	ng/L					0	30	PASS		
Benz[a]anthracene	Total	ND	1	5	ng/L					0	30	PASS		
Benzo[a]pyrene	Total	ND	1	5	ng/L					0	30	PASS		
Benzo[b]fluoranthene	Total	ND	1	5	ng/L					0	30	PASS		
Benzo[e]pyrene	Total	ND	1	5	ng/L					0	30	PASS		
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L					0	30	PASS		
Benzo[k]fluoranthene	Total	ND	1	5	ng/L					0	30	PASS		
Biphenyl	Total	ND	1	5	ng/L					0	30	PASS		
Chrysene	Total	ND	1	5	ng/L					0	30	PASS		
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L					0	30	PASS		
Dibenzothiophene	Total	ND	1	5	ng/L					0	30	PASS		
Fluoranthene	Total	1.06	1	5	ng/L					12	30	PASS		J
Fluorene	Total	ND	1	5	ng/L					0	30	PASS		
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L					0	30	PASS		
Naphthalene	Total	ND	1	5	ng/L					0	30	PASS		
Perylene	Total	ND	1	5	ng/L					0	30	PASS		
Phenanthrene	Total	ND	1	5	ng/L					0	30	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56498-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	ND	1	1	mg/L									
Sample ID: 56498-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	37.9	1	1	mg/L	40	0	95	70 - 110%	PASS				
Sample ID: 56498-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	38.4	1	1	mg/L	40	0	96	70 - 110%	PASS	1	30	PASS	
Sample ID: 56500-MS1	**B18-10023**				**Matrix: Seawater**			**Sampled: 16-Jul-18 11:40**				**Received: 18-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	36.3	1	1	mg/L	40	0	91	67 - 110%	PASS				
Sample ID: 56500-MS2	**B18-10023**				**Matrix: Seawater**			**Sampled: 16-Jul-18 11:40**				**Received: 18-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	32.1	1	1	mg/L	40	0	80	67 - 110%	PASS	13	30	PASS	
Sample ID: 56500-R2	**B18-10023**				**Matrix: Seawater**			**Sampled: 16-Jul-18 11:40**				**Received: 18-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19115			Prepared: 26-Jul-18				Analyzed: 26-Jul-18		
Oil & Grease	NA	ND	1	1	mg/L						0	30	PASS	

CHAIN OF CUSTODY

1807003-005

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.	PROJECT: 2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)	COMMENTS
	7/16/2018	1140	seawater	B18-10023	21	X	X	X	X	X	X	X	X	X	X	extra volume for MS/MSD analysis
	7/16/2018	1400	seawater	B18-10030	13	X	X	X	X	X	X	X	X	X	X	
	7/16/2018	1000	seawater	B18-10078	13	X	X	X	X	X	X	X	X	X	X	
	7/16/2018	0855	seawater	B18-10079	13	X	X	X	X	X	X	X	X	X	X	
	7/16/2018	0720	seawater	B18-10117	13	X	X	X	X	X	X	X	X	X	X	
	7/17/2018	0800	seawater	B18-10080	13	X	X	X	X	X	X	X	X	X	X	
	7/17/2018	0700	seawater	B18-10081	13	X	X	X	X	X	X	X	X	X	X	
	7/17/2018	0900	seawater	B18-10082	13	X	X	X	X	X	X	X	X	X	X	
	7/17/2018	1000	seawater	B18-10083	13	X	X	X	X	X	X	X	X	X	X	
	7/17/2018	1100	seawater	B18-10084	13	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
C Sheredy	7/18/18 0900	7/18/18 0900
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625
Total Suspended Solids (TSS)	EPA 2540D

Notes:

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-005

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/18/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 11	☐ BLUE ☑ WET ☐ DRY
Start 6:00 End 10:45 ☐ Other:	☐ Other :	☐ None 5.8 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 17, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-007

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/20/2018. A total of 17 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett

Extension 201
714 602-5320 cell
richgossett@physislabs.com

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-007

2018 Regional Harbor Monitoring Program Total Samples: 17

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56561	B18-10022		7/18/2018	8:00	Seawater
56562	B18-10076		7/18/2018	9:00	Seawater
56563	B18-10077		7/18/2018	7:00	Seawater
56564	B18-10112		7/18/2018	10:15	Seawater
56565	B18-10113		7/18/2018	11:10	Seawater
56566	B18-10024		7/19/2018	12:40	Seawater
56567	B18-10029		7/19/2018	11:10	Seawater
56568	B18-10114		7/19/2018	10:15	Seawater
56569	B18-10115		7/19/2018	7:00	Seawater
56570	B18-10116		7/19/2018	8:40	Seawater
56571	B18-20116		7/19/2018	9:35	Seawater
56572	B18-10031		7/20/2018	10:25	Seawater
56573	B18-10032		7/20/2018	13:50	Seawater
56574	B18-10119		7/20/2018	7:15	Seawater
56575	B18-10121		7/20/2018	8:20	Seawater
56576	B18-10123		7/20/2018	9:30	Seawater
56577	B18-10178		7/20/2018	11:15	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56561-R1	**B18-10022**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**8:00**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0779	0.007	0.03	NA		C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.82	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0182	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.13	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0219	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.25	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56562-R1	**B18-10076**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**9:00**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0087	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.66	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0127	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.68	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0321	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.9	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56563-R1	**B18-10077**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**7:00**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0333	0.007	0.03	NA		C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.91	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0191	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.09	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0326	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.85	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56564-R1	**B18-10112**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**10:15**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0392	0.007	0.03	NA		C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.58	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0314	0.005	0.025	NA		C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0227	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.76	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0271	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	2.7	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56565-R1	**B18-10113**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**11:10**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0619	0.007	0.03	NA		C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.58	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0068	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0242	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.87	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0253	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	2.65	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56566-R1	**B18-10024**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**12:40**	**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0173	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.55	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0191	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0119	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.61	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0282	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.65	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56567-R1	**B18-10029**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**11:10**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0203	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.65	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0159	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.021	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.55	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0303	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.55	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56568-R1	**B18-10114**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**10:15**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0193	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0191	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0168	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.69	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.021	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.65	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56569-R1	**B18-10115**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**7:00**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0298	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.7	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0173	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0185	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0344	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.35	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56570-R1	**B18-10116**			**Matrix: Seawater**		**Sampled: 19-Jul-18**	**8:40**		**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0246	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.65	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0155	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.62	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0378	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.45	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56571-R1	**B18-20116**			**Matrix: Seawater**		**Sampled: 19-Jul-18**	**9:35**		**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0423	0.007	0.03	NA		C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.02	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0223	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.27	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0386	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	6.2	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56572-R1	**B18-10031**			**Matrix: Seawater**		**Sampled: 20-Jul-18**	**10:25**		**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0207	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.67	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0055	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0107	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.1	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0404	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	4.5	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56573-R1	**B18-10032**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**13:50**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.014	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.89	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.03	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0436	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	7.55	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56574-R1	**B18-10119**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**7:15**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0163	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.56	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.005	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0168	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.97	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0344	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.75	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56575-R1	**B18-10121**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**8:20**	**Received: 20-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0139	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0073	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0114	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.62	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0331	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.25	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56576-R1	**B18-10123**			**Matrix: Seawater**		**Sampled: 20-Jul-18**	**9:30**		**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0109	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.83	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0077	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0134	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.89	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0326	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.8	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18
Sample ID: 56577-R1	**B18-10178**			**Matrix: Seawater**		**Sampled: 20-Jul-18**	**11:15**		**Received: 20-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0296	0.007	0.03	NA	J	C-39033	14-Aug-18	14-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.99	0.14	0.2	NA		O-16054	20-Jul-18	01-Aug-18
MBAS	SM 5540 C	mg/L	0.0146	0.005	0.025	NA	J	C-38039	20-Jul-18	20-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.011	0.01	0.02	NA	J,1	C-38107	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.71	0.14	0.2	NA		O-16054	01-Aug-18	01-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0412	0.01	0.02	NA	1	C-38080	24-Aug-18	24-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.6	0.5	0.5	NA		C-40007	24-Jul-18	24-Jul-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56561-R1	**B18-10022**			**Matrix: Seawater**		**Sampled: 18-Jul-18**		**8:00**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	158	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.108	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.13	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.35	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.59	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.29	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00531	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00747	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0301	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.022	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.206	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0826	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0329	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.44	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.77	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	72.9	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.203	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.77	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.32	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.38	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.4	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.368	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.3	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0296	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0155	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00945	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00819	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00825	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	27.1	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	21.5	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.26	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.89	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.69	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56562-R1	**B18-10076**			**Matrix: Seawater**		**Sampled: 18-Jul-18**		**9:00**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	127	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.147	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.127	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.28	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.16	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.33	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.037	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0664	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.207	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0791	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.039	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.07	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.24	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	71.9	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.254	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0888	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	7.34	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.59	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.78	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.29	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.417	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.322	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0164	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0171	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.0077	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00603	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0125	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00613	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	29.7	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	16.4	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.55	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.2	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.73	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.85	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56563-R1	**B18-10077**			**Matrix: Seawater**		**Sampled: 18-Jul-18**		**7:00**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	219	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.111	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.133	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.29	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.02	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.83	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0638	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0322	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.378	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.105	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0439	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.92	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.08	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	111	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.43	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	7.84	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.38	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.99	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.39	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.389	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.353	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0212	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.023	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00848	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00686	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0136	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	27.8	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.65	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.22	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.89	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.66	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56564-R1	**B18-10112**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**10:15**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	90.1	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.119	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.143	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.15	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.87	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0237	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0752	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0898	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0566	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0313	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.1	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.845	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	40.8	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0916	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.102	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.53	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.99	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.13	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.26	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.327	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.299	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0211	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.02	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00634	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00659	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00832	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	23.9	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	16	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.37	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.13	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.14	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.8	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56565-R1	**B18-10113**		**Matrix: Seawater**			**Sampled: 18-Jul-18**	**11:10**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	83.8	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.47	3	6	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.114	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.127	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	6.73	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.79	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00687	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0975	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0234	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0771	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0633	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0385	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.19	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.811	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	40.3	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.319	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.38	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.5	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.14	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.41	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.369	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.325	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0334	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0235	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00683	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00895	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	26	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	32.8	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.4	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.37	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.92	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.49	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56566-R1	**B18-10024**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**12:40**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	97.8	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.128	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.25	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.24	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.15	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.09	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0602	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.031	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.101	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0618	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.915	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.32	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	0.901	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	58.8	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.288	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.96	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	2.4	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.39	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.89	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.353	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.299	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	4.18	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0172	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.0071	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00604	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00669	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	22.4	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	15.5	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.39	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.2	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.14	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.46	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56567-R1	**B18-10029**			**Matrix: Seawater**		**Sampled: 19-Jul-18**	**11:10**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	128	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.12	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.143	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.27	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.24	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.12	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00601	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0272	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0228	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.153	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.081	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.043	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.91	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.32	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	56.9	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.174	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	7.7	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.71	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.49	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.18	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.397	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.338	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0109	0.005	0.015	Total	J	E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0216	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00518	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00563	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00621	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	47.9	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	11.3	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.64	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.16	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.8	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.5	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56568-R1	**B18-10114**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**10:15**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	189	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.113	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.144	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.42	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.08	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.41	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0056	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0295	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0212	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.212	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0852	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0499	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.87	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.44	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	78.2	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.22	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	8.47	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.5	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.82	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.13	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.402	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.361	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0205	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0183	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00776	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00773	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00796	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	36.4	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	33.8	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.6	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.44	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.68	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.65	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56569-R1	**B18-10115**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**7:00**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	143	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.12	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.147	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.43	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.34	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.17	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.53	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0299	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0274	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.18	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0842	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0542	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.24	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.55	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	84.6	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.207	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	8.62	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	5.69	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.15	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.18	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.416	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.372	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0304	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0256	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00799	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0188	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0185	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	31.5	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	26.2	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.56	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.37	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.39	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.88	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56570-R1	**B18-10116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**8:40**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	216	3	6	Total		E-16071	07-Aug-18	15-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.115	0.01	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.14	0.01	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.27	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.1	0.25	0.5	Total		E-16111	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.14	0.25	0.5	Dissolved		E-16111	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00549	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0274	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0281	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.261	0.0125	0.025	Total		E-16071	07-Aug-18	15-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0531	0.0125	0.025	Dissolved		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0971	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0451	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.96	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Copper (Cu)	EPA 1640	µg/L	1.56	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	128	0.5	1	Total		E-16071	07-Aug-18	15-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.285	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	8.27	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.47	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15064	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15064	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.84	0.005	0.01	Total		E-16071	07-Aug-18	15-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	9.6	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.432	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.375	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0201	0.005	0.015	Total		E-16071	07-Aug-18	15-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0225	0.005	0.015	Dissolved		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16071	07-Aug-18	15-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.009	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00736	0.005	0.01	Dissolved	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00692	0.005	0.01	Total	J	E-16071	07-Aug-18	15-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	22	0.035	0.07	Total		E-16071	07-Aug-18	15-Oct-18
Titanium (Ti)	EPA 1640	µg/L	22	0.035	0.07	Dissolved		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.63	0.02	0.04	Total		E-16071	07-Aug-18	15-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.3	0.02	0.04	Dissolved		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.22	0.0025	0.005	Total		E-16071	07-Aug-18	15-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.28	0.0025	0.005	Dissolved		E-16071	07-Aug-18	15-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56571-R1	**B18-20116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**9:35**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	246	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.169	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.71	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.82	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0154	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0521	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.049	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.521	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.104	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.115	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.052	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.01	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.42	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	112	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.378	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0388	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	8.4	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	3.65	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.27	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.58	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.473	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.436	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.012	0.005	0.015	Total	J	E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0188	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00847	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00804	0.005	0.01	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0102	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.00902	0.005	0.01	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	33.6	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	18	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.96	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.71	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	6.01	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56572-R1	**B18-10031**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**10:25**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	161	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.125	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.134	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.38	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.18	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.02	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0542	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0569	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.312	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.108	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0941	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0545	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.95	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.2	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	68.2	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.3	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0328	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	9.94	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.92	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.38	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.1	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.494	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.489	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0131	0.005	0.015	Total	J	E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0126	0.005	0.015	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00786	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0196	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0062	0.005	0.01	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	25.4	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	20.3	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.67	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.43	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.09	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.4	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56573-R1	**B18-10032**			**Matrix: Seawater**		**Sampled: 20-Jul-18**		**13:50**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	297	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	4.08	3	6	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.105	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.132	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.42	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.55	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.58	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.31	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00791	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0109	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0579	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0524	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.548	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.101	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.114	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0528	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.99	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.35	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	131	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.418	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0364	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	9.16	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	4.9	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.82	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.29	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.51	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.403	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0171	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.012	0.005	0.015	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00758	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00671	0.005	0.01	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0106	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	35.6	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	24.3	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	3	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.58	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	4.78	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	3.68	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56574-R1	**B18-10119**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**7:15**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	138	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.51	3	6	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.109	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.121	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.65	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.3	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0174	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0533	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.048	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.339	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.111	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0897	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0493	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.48	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.64	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	70.9	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.299	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0277	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	10	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.46	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.46	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.07	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.485	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.437	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0118	0.005	0.015	Total	J	E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0206	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	30.8	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	30	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.77	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.56	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	9.21	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.52	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56575-R1	**B18-10121**			**Matrix: Seawater**		**Sampled: 20-Jul-18**		**8:20**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	122	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.104	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.134	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.62	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.26	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00773	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.00545	0.005	0.01	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.05	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0533	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.285	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.101	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0794	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0515	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.57	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.94	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	52.7	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.219	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0286	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	9.44	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.22	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.58	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.54	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.551	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.56	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0226	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00594	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	34.5	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	23.1	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.75	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.43	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	13.1	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.52	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56576-R1	**B18-10123**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**9:30**	**Received: 20-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	88.9	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.127	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.128	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	7.16	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	9.29	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0179	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0567	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0539	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.222	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.125	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0759	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0515	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.89	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.36	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	36	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.173	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0223	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	9.06	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	6.67	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.03	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.41	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.572	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.547	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.018	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0137	0.005	0.015	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00591	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	20.9	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	24.2	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.47	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	9.79	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	5.57	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56577-R1	**B18-10178**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**11:15**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	91.8	3	6	Total		E-16072	07-Aug-18	22-Oct-18
Aluminum (Al)	EPA 1640	µg/L	3.04	3	6	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.124	0.01	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Antimony (Sb)	EPA 1640	µg/L	0.133	0.01	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.48	0.005	0.015	Total		E-16072	07-Aug-18	22-Oct-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.78	0.25	0.5	Total		E-16112	26-Oct-18	30-Oct-18
Barium (Ba)	EPA 200.8	µg/L	8.85	0.25	0.5	Dissolved		E-16112	26-Oct-18	30-Oct-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Beryllium (Be)	EPA 1640	µg/L	0.0123	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0515	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Cadmium (Cd)	EPA 1640	µg/L	0.0552	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.23	0.0125	0.025	Total		E-16072	07-Aug-18	22-Oct-18
Chromium (Cr)	EPA 1640	µg/L	0.0955	0.0125	0.025	Dissolved		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.096	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Cobalt (Co)	EPA 1640	µg/L	0.0737	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	3.34	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Copper (Cu)	EPA 1640	µg/L	2.64	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	43.7	0.5	1	Total		E-16072	07-Aug-18	22-Oct-18
Iron (Fe)	EPA 1640	µg/L	0.694	0.5	1	Dissolved	J	E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.259	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Lead (Pb)	EPA 1640	µg/L	0.0378	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	11.1	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Manganese (Mn)	EPA 1640	µg/L	9.25	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15065	01-Sep-18	01-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15065	01-Sep-18	01-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.78	0.005	0.01	Total		E-16072	07-Aug-18	22-Oct-18
Molybdenum (Mo)	EPA 1640	µg/L	8.58	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.573	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Nickel (Ni)	EPA 1640	µg/L	0.536	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0136	0.005	0.015	Total	J	E-16072	07-Aug-18	22-Oct-18
Selenium (Se)	EPA 1640	µg/L	0.0194	0.005	0.015	Dissolved		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16072	07-Aug-18	22-Oct-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	0.00632	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	0.0066	0.005	0.01	Total	J	E-16072	07-Aug-18	22-Oct-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	33.8	0.035	0.07	Total		E-16072	07-Aug-18	22-Oct-18
Titanium (Ti)	EPA 1640	µg/L	26.2	0.035	0.07	Dissolved		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.76	0.02	0.04	Total		E-16072	07-Aug-18	22-Oct-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Dissolved		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.39	0.0025	0.005	Total		E-16072	07-Aug-18	22-Oct-18
Zinc (Zn)	EPA 1640	µg/L	7.81	0.0025	0.005	Dissolved		E-16072	07-Aug-18	22-Oct-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56561-R1	**B18-10022**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**8:00**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	69			Total		O-20044	23-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	80			Total		O-20044	23-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	46			Total		O-20044	23-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.37	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	4.06	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.05	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	2.28	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56562-R1	**B18-10076**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**9:00**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	07-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20044	23-Jul-18	07-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	07-Aug-18
(d12-Perylene)	EPA 625	% Recovery	81			Total		O-20044	23-Jul-18	07-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	58			Total		O-20044	23-Jul-18	07-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.59	1	5	Total	J	O-20044	23-Jul-18	07-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Fluoranthene	EPA 625	ng/L	4.74	1	5	Total	J	O-20044	23-Jul-18	07-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.11	1	5	Total	J	O-20044	23-Jul-18	07-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	07-Aug-18
Pyrene	EPA 625	ng/L	2.55	1	5	Total	J	O-20044	23-Jul-18	07-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56563-R1	**B18-10077**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**7:00**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	69			Total		O-20044	23-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	71			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	48			Total		O-20044	23-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	1.26	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.84	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	4.13	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.92	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	2.69	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56564-R1	**B18-10112**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**10:15**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	70			Total		O-20044	23-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	72			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	53			Total		O-20044	23-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	4.69	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	1.49	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.25	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	8.85	1	5	Total		O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.2	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	2.38	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	4.33	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56565-R1	**B18-10113**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**11:10**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	68			Total		O-20044	23-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	73			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	49			Total		O-20044	23-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	4.43	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	1.26	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.08	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	8.44	1	5	Total		O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.13	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.1	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	2.2	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	4.05	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56566-R1	**B18-10024**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**12:40**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20044	23-Jul-18	08-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20044	23-Jul-18	08-Aug-18
(d12-Perylene)	EPA 625	% Recovery	77			Total		O-20044	23-Jul-18	08-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	53			Total		O-20044	23-Jul-18	08-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.08	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Fluoranthene	EPA 625	ng/L	3.33	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	08-Aug-18
Pyrene	EPA 625	ng/L	1.5	1	5	Total	J	O-20044	23-Jul-18	08-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56567-R1	**B18-10029**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**11:10**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	65			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	91			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	48			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	1.3	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.24	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	4.07	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.14	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	1.02	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	1.9	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56568-R1	**B18-10114**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**10:15**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	63			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	89			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	70			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	69			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	45			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.23	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.63	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	1.93	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56569-R1	**B18-10115**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**7:00**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	66			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	71			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	45			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	1.84	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.64	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	5.2	1	5	Total		O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.47	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.43	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	1.78	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	3.13	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56570-R1	**B18-10116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**	**8:40**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	58			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	88			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	70			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	70			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	41			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.82	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.12	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	1.96	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56571-R1	**B18-20116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**9:35**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	68			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	93			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	73			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	48			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	1.22	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	2.36	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.06	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	2.04	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56572-R1	**B18-10031**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**10:25**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	62			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	71			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	71			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	44			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	1.3	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	2.3	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.84	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.1	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	1.25	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	2.79	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56573-R1	**B18-10032**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**13:50**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	64			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	93			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	72			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	42			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.73	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	2.17	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.15	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	1.64	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56574-R1	**B18-10119**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**7:15**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	104			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	82			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	81			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	55			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	2.5	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	1.11	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	2.49	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	6.03	1	5	Total		O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.65	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	2.86	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	1.72	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	3.71	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56575-R1	**B18-10121**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**8:20**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	99			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	77			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	76			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	56			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	1.31	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.29	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.75	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.03	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.04	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	2.37	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56576-R1	**B18-10123**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**9:30**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	75			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	54			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	1.25	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.42	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	3.53	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.08	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.26	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	1.11	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	2.41	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56577-R1	**B18-10178**		**Matrix: Seawater**			**Sampled: 20-Jul-18**	**11:15**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	71			Total		O-20044	23-Jul-18	09-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	97			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20044	23-Jul-18	09-Aug-18
(d12-Perylene)	EPA 625	% Recovery	74			Total		O-20044	23-Jul-18	09-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	54			Total		O-20044	23-Jul-18	09-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.07	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	1.31	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthene	EPA 625	ng/L	3.86	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Anthracene	EPA 625	ng/L	1.35	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	1.15	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Fluoranthene	EPA 625	ng/L	9.46	1	5	Total		O-20044	23-Jul-18	09-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.43	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	1.45	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20044	23-Jul-18	09-Aug-18
Phenanthrene	EPA 625	ng/L	3.27	1	5	Total	J	O-20044	23-Jul-18	09-Aug-18
Pyrene	EPA 625	ng/L	6.72	1	5	Total		O-20044	23-Jul-18	09-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56561-R1	**B18-10022**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**8:00**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56562-R1	**B18-10076**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**9:00**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56563-R1	**B18-10077**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**7:00**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56564-R1	**B18-10112**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**10:15**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56565-R1	**B18-10113**		**Matrix: Seawater**			**Sampled: 18-Jul-18**		**11:10**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56566-R1	**B18-10024**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**12:40**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56567-R1	**B18-10029**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**11:10**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56568-R1	**B18-10114**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**10:15**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56569-R1	**B18-10115**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**7:00**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56570-R1	**B18-10116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**8:40**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56571-R1	**B18-20116**		**Matrix: Seawater**			**Sampled: 19-Jul-18**		**9:35**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56572-R1	**B18-10031**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**10:25**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56573-R1	**B18-10032**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**13:50**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56574-R1	**B18-10119**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**7:15**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56575-R1	**B18-10121**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**8:20**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56576-R1	**B18-10123**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**9:30**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18
Sample ID: 56577-R1	**B18-10178**		**Matrix: Seawater**			**Sampled: 20-Jul-18**		**11:15**	**Received: 20-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19116	30-Jul-18	30-Jul-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 14-Aug-18**			**Analyzed: 14-Aug-18**			
56559-B1	QAQC Procedural Blank	C-39033	ND	0.007	0.03	mg/L									
56559-BS1	QAQC Procedural Blank	C-39033	0.0702	0.007	0.03	mg/L	0.075	0	94	62 - 157%	PASS				
56559-BS2	QAQC Procedural Blank	C-39033	0.0794	0.007	0.03	mg/L	0.075	0	106	62 - 157%	PASS	12	30	PASS	
56562-MS1	B18-10076	C-39033	0.0838	0.007	0.03	mg/L	0.075	0.00895	100	17 - 186%	PASS				
56562-MS2	B18-10076	C-39033	0.085	0.007	0.03	mg/L	0.075	0.00895	101	17 - 186%	PASS	1	30	PASS	
56562-R2	B18-10076	C-39033	0.0092	0.007	0.03	mg/L						6	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 20-Jul-18**			**Analyzed: 01-Aug-18**			
56559-B1	QAQC Procedural Blank	O-16054	ND	0.14	0.2	mg/L									
56559-BS1	QAQC Procedural Blank	O-16054	8.51	0.14	0.2	mg/L	10	0	85	67 - 114%	PASS				
56559-BS2	QAQC Procedural Blank	O-16054	9.18	0.14	0.2	mg/L	10	0	92	67 - 114%	PASS	8	30	PASS	
56562-MS1	B18-10076	O-16054	12.6	0.14	0.2	mg/L	10	1.55	111	50 - 150%	PASS				
56562-MS2	B18-10076	O-16054	12.6	0.14	0.2	mg/L	10	1.55	111	50 - 150%	PASS	0	30	PASS	
56562-R2	B18-10076	O-16054	1.45	0.14	0.2	mg/L						14	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**			**Prepared: 20-Jul-18**			**Analyzed: 20-Jul-18**			
56559-B1	QAQC Procedural Blank	C-38039	ND	0.005	0.025	mg/L									
56559-BS1	QAQC Procedural Blank	C-38039	0.077	0.005	0.025	mg/L	0.1	0	77	15 - 152%	PASS				
56559-BS2	QAQC Procedural Blank	C-38039	0.0802	0.005	0.025	mg/L	0.1	0	80	15 - 152%	PASS	4	30	PASS	
56562-MS1	B18-10076	C-38039	0.0943	0.005	0.025	mg/L	0.1	0.0121	82	61 - 137%	PASS				
56562-MS2	B18-10076	C-38039	0.0747	0.005	0.025	mg/L	0.1	0.0121	63	61 - 137%	PASS	26	30	PASS	
56562-R2	B18-10076	C-38039	0.0114	0.005	0.025	mg/L						11	30	PASS	J
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**			**Prepared: 11-Sep-18**			**Analyzed: 11-Sep-18**			
56559-B1	QAQC Procedural Blank	C-38107	ND	0.01	0.02	mg/L									
56559-BS1	QAQC Procedural Blank	C-38107	0.541	0.01	0.02	mg/L	0.5	0	108	68 - 135%	PASS				
56559-BS2	QAQC Procedural Blank	C-38107	0.542	0.01	0.02	mg/L	0.5	0	108	68 - 135%	PASS	0	30	PASS	
56562-MS1	B18-10076	C-38107	0.566	0.01	0.02	mg/L	0.5	0	113	36 - 176%	PASS				
56562-MS2	B18-10076	C-38107	0.572	0.01	0.02	mg/L	0.5	0	114	36 - 176%	PASS	1	30	PASS	
56562-R2	B18-10076	C-38107	ND	0.01	0.02	mg/L						0	30	PASS	1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56563-MS1	B18-10077	C-38107	0.553	0.01	0.02	mg/L	0.5	0	111	36 - 176%	PASS				
56563-MS2	B18-10077	C-38107	0.559	0.01	0.02	mg/L	0.5	0	112	36 - 176%	PASS	1	30	PASS	
56563-R2	B18-10077	C-38107	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon		**Method: SM 5310 B**				**Fraction: NA**			**Prepared: 01-Aug-18**			**Analyzed: 01-Aug-18**			
56559-B1	QAQC Procedural Blank	O-16054	ND	0.14	0.2	mg/L									
56559-BS1	QAQC Procedural Blank	O-16054	8.51	0.14	0.2	mg/L	10	0	85	63 - 133%	PASS				
56559-BS2	QAQC Procedural Blank	O-16054	9.18	0.14	0.2	mg/L	10	0	92	63 - 133%	PASS	8	30	PASS	
56562-MS1	B18-10076	O-16054	12.7	0.14	0.2	mg/L	10	1.59	111	50 - 150%	PASS				
56562-MS2	B18-10076	O-16054	12.5	0.14	0.2	mg/L	10	1.59	109	50 - 150%	PASS	2	30	PASS	
56562-R2	B18-10076	O-16054	1.5	0.14	0.2	mg/L						11	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**			**Prepared: 24-Aug-18**			**Analyzed: 24-Aug-18**			
56559-B1	QAQC Procedural Blank	C-38080	ND	0.01	0.02	mg/L									
56559-BS1	QAQC Procedural Blank	C-38080	0.201	0.01	0.02	mg/L	0.2	0	100	42 - 153%	PASS				
56559-BS2	QAQC Procedural Blank	C-38080	0.201	0.01	0.02	mg/L	0.2	0	100	42 - 153%	PASS	0	30	PASS	
56562-MS1	B18-10076	C-38080	0.224	0.01	0.02	mg/L	0.2	0.0311	96	54 - 130%	PASS				
56562-MS2	B18-10076	C-38080	0.233	0.01	0.02	mg/L	0.2	0.0311	101	54 - 130%	PASS	5	30	PASS	
56562-R2	B18-10076	C-38080	0.0301	0.01	0.02	mg/L						6	30	PASS	1
56563-MS1	B18-10077	C-38080	0.234	0.01	0.02	mg/L	0.2	0.0343	100	54 - 130%	PASS				
56563-MS2	B18-10077	C-38080	0.24	0.01	0.02	mg/L	0.2	0.0343	103	54 - 130%	PASS	3	30	PASS	
56563-R2	B18-10077	C-38080	0.036	0.01	0.02	mg/L						10	30	PASS	1
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**			**Prepared: 24-Jul-18**			**Analyzed: 24-Jul-18**			
56559-B1	QAQC Procedural Blank	C-40007	ND	0.5	0.5	mg/L									
56562-R2	B18-10076	C-40007	5.2	0.5	0.5	mg/L						29	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15065		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16072		Prepared: 07-Aug-18			Analyzed: 22-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16112		Prepared: 26-Oct-18			Analyzed: 30-Oct-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 56559-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15065		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Total	0.901	0.01	0.02	µg/L	1	0	90	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16112		Prepared: 26-Oct-18			Analyzed: 30-Oct-18		
Barium (Ba)	Total	100	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 245.7				Batch ID: E-15065			Prepared: 01-Sep-18				Analyzed: 01-Sep-18	
Mercury (Hg)	Total	0.895	0.01	0.02	µg/L	1	0	89	84 - 120%	PASS	0	30 PASS	
	Method: EPA 200.8				Batch ID: E-16112			Prepared: 26-Oct-18				Analyzed: 30-Oct-18	
Barium (Ba)	Total	104	0.25	0.5	µg/L	100	0	104	89 - 119%	PASS	4	30 PASS	
Sample ID: 56560-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16071			Prepared: 07-Aug-18				Analyzed: 15-Oct-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0952	0.01	0.015	µg/L								
Arsenic (As)	Total	1.94	0.005	0.015	µg/L								
Beryllium (Be)	Total	0.0196	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0876	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.0867	0.0125	0.025	µg/L								
Cobalt (Co)	Total	0.00838	0.005	0.01	µg/L								
Copper (Cu)	Total	0.634	0.005	0.01	µg/L								
Iron (Fe)	Total	0.685	0.5	1	µg/L								
Lead (Pb)	Total	ND	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.263	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.37	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.345	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0588	0.005	0.015	µg/L								
Silver (Ag)	Total	ND	0.01	0.02	µg/L								
Thallium (Tl)	Total	0.00733	0.005	0.01	µg/L								
Tin (Sn)	Total	ND	0.005	0.01	µg/L								
Titanium (Ti)	Total	14.7	0.035	0.07	µg/L								
Vanadium (V)	Total	2.05	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.496	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56560-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18				Analyzed: 15-Oct-18	
Aluminum (Al)	Total	23	3	6	µg/L	20	0	115	82 - 136%	PASS		
Antimony (Sb)	Total	1.37	0.01	0.015	µg/L	20	0.0952	6	0 - 57%	PASS		
Arsenic (As)	Total	22.5	0.005	0.015	µg/L	20	1.94	103	64 - 133%	PASS		
Beryllium (Be)	Total	18.1	0.005	0.01	µg/L	20	0.0196	90	64 - 112%	PASS		
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.0876	94	74 - 107%	PASS		
Chromium (Cr)	Total	21.1	0.0125	0.025	µg/L	20	0.0867	105	87 - 117%	PASS		
Cobalt (Co)	Total	19.5	0.005	0.01	µg/L	20	0.00838	97	79 - 112%	PASS		
Copper (Cu)	Total	18.5	0.005	0.01	µg/L	20	0.634	89	77 - 107%	PASS		
Iron (Fe)	Total	15.4	0.5	1	µg/L	20	0.685	74	36 - 108%	PASS		
Lead (Pb)	Total	19.2	0.0025	0.005	µg/L	20	0	96	77 - 110%	PASS		
Manganese (Mn)	Total	18.5	0.01	0.02	µg/L	20	0.263	91	15 - 142%	PASS		
Molybdenum (Mo)	Total	27.6	0.005	0.01	µg/L	20	9.37	91	78 - 108%	PASS		
Nickel (Ni)	Total	17.6	0.0025	0.005	µg/L	20	0.345	86	75 - 105%	PASS		
Selenium (Se)	Total	22.5	0.005	0.015	µg/L	20	0.0588	112	76 - 119%	PASS		
Silver (Ag)	Total	6.22	0.01	0.02	µg/L	10	0	62	61 - 113%	PASS		
Thallium (Tl)	Total	19.2	0.005	0.01	µg/L	20	0.00733	96	72 - 109%	PASS		
Tin (Sn)	Total	18.1	0.005	0.01	µg/L	20	0	91	61 - 125%	PASS		
Titanium (Ti)	Total	39.5	0.035	0.07	µg/L	20	14.7	124	41 - 143%	PASS		
Vanadium (V)	Total	23.8	0.02	0.04	µg/L	20	2.05	109	81 - 127%	PASS		
Zinc (Zn)	Total	24.7	0.0025	0.005	µg/L	20	0.496	121	72 - 116%	FAIL		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56560-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18				Analyzed: 15-Oct-18		
Aluminum (Al)	Total	21.9	3	6	µg/L	20	0	110	82 - 136%	PASS	4	30	PASS
Antimony (Sb)	Total	1.38	0.01	0.015	µg/L	20	0.0952	6	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	22.4	0.005	0.015	µg/L	20	1.94	102	64 - 133%	PASS	1	30	PASS
Beryllium (Be)	Total	17.9	0.005	0.01	µg/L	20	0.0196	89	64 - 112%	PASS	1	30	PASS
Cadmium (Cd)	Total	19	0.0025	0.005	µg/L	20	0.0876	95	74 - 107%	PASS	1	30	PASS
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.0867	103	87 - 117%	PASS	2	30	PASS
Cobalt (Co)	Total	18.5	0.005	0.01	µg/L	20	0.00838	92	79 - 112%	PASS	5	30	PASS
Copper (Cu)	Total	18.6	0.005	0.01	µg/L	20	0.634	90	77 - 107%	PASS	1	30	PASS
Iron (Fe)	Total	15	0.5	1	µg/L	20	0.685	72	36 - 108%	PASS	3	30	PASS
Lead (Pb)	Total	19.1	0.0025	0.005	µg/L	20	0	96	77 - 110%	PASS	0	30	PASS
Manganese (Mn)	Total	19.3	0.01	0.02	µg/L	20	0.263	95	15 - 142%	PASS	4	30	PASS
Molybdenum (Mo)	Total	28.1	0.005	0.01	µg/L	20	9.37	94	78 - 108%	PASS	3	30	PASS
Nickel (Ni)	Total	17.7	0.0025	0.005	µg/L	20	0.345	87	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	23.1	0.005	0.015	µg/L	20	0.0588	115	76 - 119%	PASS	3	30	PASS
Silver (Ag)	Total	6.61	0.01	0.02	µg/L	10	0	66	61 - 113%	PASS	6	30	PASS
Thallium (Tl)	Total	19.4	0.005	0.01	µg/L	20	0.00733	97	72 - 109%	PASS	1	30	PASS
Tin (Sn)	Total	18.6	0.005	0.01	µg/L	20	0	93	61 - 125%	PASS	3	30	PASS
Titanium (Ti)	Total	32.4	0.035	0.07	µg/L	20	14.7	88	41 - 143%	PASS	35	30	FAIL
Vanadium (V)	Total	23.2	0.02	0.04	µg/L	20	2.05	106	81 - 127%	PASS	3	30	PASS
Zinc (Zn)	Total	17.9	0.0025	0.005	µg/L	20	0.496	87	72 - 116%	PASS	33	30	FAIL

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56562-MS1	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18**	**9:00**		**Received: 20-Jul-18**			
	Method: EPA 245.7				Batch ID: E-15064		Prepared: 01-Sep-18			Analyzed: 01-Sep-18			
Mercury (Hg)	Total	1	0.01	0.02	µg/L	1	0	100	76 - 127%	PASS			
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18			Analyzed: 15-Oct-18			
Aluminum (Al)	Total	173	3	6	µg/L	20	127	230	82 - 136%	FAIL			SH
Antimony (Sb)	Total	2.33	0.01	0.015	µg/L	20	0.142	11	0 - 57%	PASS			
Arsenic (As)	Total	22.1	0.005	0.015	µg/L	20	1.43	103	64 - 133%	PASS			
Beryllium (Be)	Total	17.2	0.005	0.01	µg/L	20	0	86	64 - 112%	PASS			
Cadmium (Cd)	Total	18.5	0.0025	0.005	µg/L	20	0.0277	92	74 - 107%	PASS			
Chromium (Cr)	Total	20.4	0.0125	0.025	µg/L	20	0.206	101	87 - 117%	PASS			
Cobalt (Co)	Total	18.9	0.005	0.01	µg/L	20	0.0763	94	79 - 112%	PASS			
Copper (Cu)	Total	21.4	0.005	0.01	µg/L	20	1.97	97	77 - 107%	PASS			
Iron (Fe)	Total	106	0.5	1	µg/L	20	79.9	130	36 - 108%	FAIL			SH
Lead (Pb)	Total	19.3	0.0025	0.005	µg/L	20	0.235	95	77 - 110%	PASS			
Manganese (Mn)	Total	25.5	0.01	0.02	µg/L	20	7.35	91	15 - 142%	PASS			
Molybdenum (Mo)	Total	28.2	0.005	0.01	µg/L	20	8.47	99	78 - 108%	PASS			
Nickel (Ni)	Total	18.2	0.0025	0.005	µg/L	20	0.421	89	75 - 105%	PASS			
Selenium (Se)	Total	23.7	0.005	0.015	µg/L	20	0.0259	118	76 - 119%	PASS			
Silver (Ag)	Total	8.17	0.01	0.02	µg/L	10	0	82	61 - 113%	PASS			
Thallium (Tl)	Total	18.8	0.005	0.01	µg/L	20	0.00687	94	72 - 109%	PASS			
Tin (Sn)	Total	18.2	0.005	0.01	µg/L	20	0.0142	91	61 - 125%	PASS			
Titanium (Ti)	Total	40.6	0.035	0.07	µg/L	20	31.8	44	41 - 143%	PASS			
Vanadium (V)	Total	23.5	0.02	0.04	µg/L	20	2.57	105	81 - 127%	PASS			
Zinc (Zn)	Total	25.5	0.0025	0.005	µg/L	20	7.01	92	72 - 116%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56562-MS2	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18**	**9:00**		**Received: 20-Jul-18**				
	Method: EPA 245.7				Batch ID: E-15064		Prepared: 01-Sep-18			Analyzed: 01-Sep-18				
Mercury (Hg)	Total	1.02	0.01	0.02	µg/L	1	0	102	76 - 127%	PASS	2	30	PASS	
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18			Analyzed: 15-Oct-18				
Aluminum (Al)	Total	174	3	6	µg/L	20	127	235	82 - 136%	FAIL	2	30	PASS	SH
Antimony (Sb)	Total	2.29	0.01	0.015	µg/L	20	0.142	11	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	22.3	0.005	0.015	µg/L	20	1.43	104	64 - 133%	PASS	1	30	PASS	
Beryllium (Be)	Total	17.2	0.005	0.01	µg/L	20	0	86	64 - 112%	PASS	0	30	PASS	
Cadmium (Cd)	Total	18.6	0.0025	0.005	µg/L	20	0.0277	93	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20.5	0.0125	0.025	µg/L	20	0.206	101	87 - 117%	PASS	0	30	PASS	
Cobalt (Co)	Total	18.8	0.005	0.01	µg/L	20	0.0763	94	79 - 112%	PASS	0	30	PASS	
Copper (Cu)	Total	21.5	0.005	0.01	µg/L	20	1.97	98	77 - 107%	PASS	1	30	PASS	
Iron (Fe)	Total	111	0.5	1	µg/L	20	79.9	155	36 - 108%	FAIL	18	30	PASS	SH
Lead (Pb)	Total	19.4	0.0025	0.005	µg/L	20	0.235	96	77 - 110%	PASS	1	30	PASS	
Manganese (Mn)	Total	26	0.01	0.02	µg/L	20	7.35	93	15 - 142%	PASS	2	30	PASS	
Molybdenum (Mo)	Total	28.3	0.005	0.01	µg/L	20	8.47	99	78 - 108%	PASS	0	30	PASS	
Nickel (Ni)	Total	18.1	0.0025	0.005	µg/L	20	0.421	88	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	23.8	0.005	0.015	µg/L	20	0.0259	119	76 - 119%	PASS	1	30	PASS	
Silver (Ag)	Total	8.01	0.01	0.02	µg/L	10	0	80	61 - 113%	PASS	2	30	PASS	
Thallium (Tl)	Total	18.8	0.005	0.01	µg/L	20	0.00687	94	72 - 109%	PASS	0	30	PASS	
Tin (Sn)	Total	18.3	0.005	0.01	µg/L	20	0.0142	91	61 - 125%	PASS	0	30	PASS	
Titanium (Ti)	Total	40.5	0.035	0.07	µg/L	20	31.8	44	41 - 143%	PASS	0	30	PASS	
Vanadium (V)	Total	23.7	0.02	0.04	µg/L	20	2.57	106	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	24	0.0025	0.005	µg/L	20	7.01	85	72 - 116%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56562-R2	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18**	**9:00**		**Received: 20-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15064		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18			Analyzed: 15-Oct-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	126	3	6	µg/L					1	30 PASS	
Antimony (Sb)	Dissolved	0.131	0.01	0.015	µg/L					3	30 PASS	
Antimony (Sb)	Total	0.137	0.01	0.015	µg/L					7	30 PASS	
Arsenic (As)	Dissolved	1.41	0.005	0.015	µg/L					10	30 PASS	
Arsenic (As)	Total	1.45	0.005	0.015	µg/L					3	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.0911	0.0025	0.005	µg/L					31	30 FAIL	NH
Cadmium (Cd)	Total	0.0184	0.0025	0.005	µg/L					67	30 FAIL	SL
Chromium (Cr)	Dissolved	ND	0.0125	0.025	µg/L					0	30 PASS	
Chromium (Cr)	Total	0.204	0.0125	0.025	µg/L					1	30 PASS	
Cobalt (Co)	Dissolved	0.0493	0.005	0.01	µg/L					23	30 PASS	
Cobalt (Co)	Total	0.0734	0.005	0.01	µg/L					7	30 PASS	
Copper (Cu)	Dissolved	1.31	0.005	0.01	µg/L					5	30 PASS	
Copper (Cu)	Total	1.87	0.005	0.01	µg/L					10	30 PASS	
Iron (Fe)	Dissolved	0.757	0.5	1	µg/L					41	30 FAIL	J,SL
Iron (Fe)	Total	87.8	0.5	1	µg/L					20	30 PASS	
Lead (Pb)	Dissolved	0.151	0.0025	0.005	µg/L					52	30 FAIL	NH
Lead (Pb)	Total	0.216	0.0025	0.005	µg/L					16	30 PASS	
Manganese (Mn)	Dissolved	3.67	0.01	0.02	µg/L					2	30 PASS	
Manganese (Mn)	Total	7.37	0.01	0.02	µg/L					0	30 PASS	
Molybdenum (Mo)	Dissolved	9.41	0.005	0.01	µg/L					1	30 PASS	
Molybdenum (Mo)	Total	8.16	0.005	0.01	µg/L					7	30 PASS	
Nickel (Ni)	Dissolved	0.323	0.0025	0.005	µg/L					0	30 PASS	
Nickel (Ni)	Total	0.425	0.0025	0.005	µg/L					2	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	0.0194	0.005	0.015	µg/L						13	30	PASS	
Selenium (Se)	Total	0.0354	0.005	0.015	µg/L						73	30	FAIL	SL
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L						0	30	PASS	
Silver (Ag)	Total	ND	0.01	0.02	µg/L						0	30	PASS	
Thallium (Tl)	Dissolved	0.00669	0.005	0.01	µg/L						10	30	PASS	J
Thallium (Tl)	Total	0.00603	0.005	0.01	µg/L						24	30	PASS	J
Tin (Sn)	Dissolved	0.00799	0.005	0.01	µg/L						26	30	PASS	J
Tin (Sn)	Total	0.0158	0.005	0.01	µg/L						23	30	PASS	
Titanium (Ti)	Dissolved	21	0.035	0.07	µg/L						25	30	PASS	
Titanium (Ti)	Total	33.9	0.035	0.07	µg/L						13	30	PASS	
Vanadium (V)	Dissolved	2.31	0.02	0.04	µg/L						5	30	PASS	
Vanadium (V)	Total	2.58	0.02	0.04	µg/L						1	30	PASS	
Zinc (Zn)	Dissolved	6.2	0.0025	0.005	µg/L						6	30	PASS	
Zinc (Zn)	Total	7.29	0.0025	0.005	µg/L						8	30	PASS	
Sample ID: 56570-MS1	**B18-10116**				**Matrix: Seawater**			**Sampled: 19-Jul-18**		**8:40**		**Received: 20-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16111			Prepared: 26-Oct-18				Analyzed: 30-Oct-18		
Barium (Ba)	Total	109	0.25	0.5	µg/L	100	8.2	101	90 - 120%	PASS				
Sample ID: 56570-MS2	**B18-10116**				**Matrix: Seawater**			**Sampled: 19-Jul-18**		**8:40**		**Received: 20-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16111			Prepared: 26-Oct-18				Analyzed: 30-Oct-18		
Barium (Ba)	Total	109	0.25	0.5	µg/L	100	8.2	101	90 - 120%	PASS	0	30	PASS	
Sample ID: 56570-R2	**B18-10116**				**Matrix: Seawater**			**Sampled: 19-Jul-18**		**8:40**		**Received: 20-Jul-18**		
	Method: EPA 200.8				Batch ID: E-16111			Prepared: 26-Oct-18				Analyzed: 30-Oct-18		
Barium (Ba)	Dissolved	7.48	0.25	0.5	µg/L						20	30	PASS	
Barium (Ba)	Total	8.29	0.25	0.5	µg/L						2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56571-MS1	**B18-20116**				**Matrix: Seawater**			**Sampled: 19-Jul-18**	**9:35**			**Received: 20-Jul-18**	
	Method: EPA 245.7				Batch ID: E-15065			Prepared: 01-Sep-18				Analyzed: 01-Sep-18	
Mercury (Hg)	Total	0.939	0.01	0.02	µg/L	1	0	94	76 - 127%	PASS			
	Method: EPA 1640				Batch ID: E-16072			Prepared: 07-Aug-18				Analyzed: 22-Oct-18	
Aluminum (Al)	Total	246	3	6	µg/L	20	244	10	82 - 136%	FAIL			SH
Antimony (Sb)	Dissolved	2.15	0.01	0.015	µg/L	20	0.166	10	0 - 57%	PASS			
Arsenic (As)	Total	23.6	0.005	0.015	µg/L	20	1.51	110	64 - 133%	PASS			
Beryllium (Be)	Total	14.7	0.005	0.01	µg/L	20	0.00769	73	64 - 112%	PASS			
Cadmium (Cd)	Dissolved	18.8	0.0025	0.005	µg/L	20	0.0486	94	74 - 107%	PASS			
Chromium (Cr)	Total	21.1	0.0125	0.025	µg/L	20	0.497	103	87 - 117%	PASS			
Cobalt (Co)	Total	19.6	0.005	0.01	µg/L	20	0.109	97	79 - 112%	PASS			
Copper (Cu)	Dissolved	21	0.005	0.01	µg/L	20	2.4	93	77 - 107%	PASS			
Copper (Cu)	Total	21.1	0.005	0.01	µg/L	20	2.99	91	77 - 107%	PASS			
Iron (Fe)	Dissolved	138	0.5	1	µg/L	20	0	690	36 - 108%	FAIL			M
Lead (Pb)	Dissolved	19.5	0.0025	0.005	µg/L	20	0.0379	97	77 - 110%	PASS			
Manganese (Mn)	Total	26.3	0.01	0.02	µg/L	20	8.47	89	15 - 142%	PASS			
Molybdenum (Mo)	Dissolved	25.7	0.005	0.01	µg/L	20	8.17	88	78 - 108%	PASS			
Nickel (Ni)	Dissolved	18.5	0.0025	0.005	µg/L	20	0.436	90	75 - 105%	PASS			
Selenium (Se)	Dissolved	20.2	0.005	0.015	µg/L	20	0.0133	101	76 - 119%	PASS			
Silver (Ag)	Total	7.39	0.01	0.02	µg/L	10	0	74	61 - 113%	PASS			
Thallium (Tl)	Total	18	0.005	0.01	µg/L	20	0.00883	90	72 - 109%	PASS			
Tin (Sn)	Dissolved	18.4	0.005	0.01	µg/L	20	0.0103	92	61 - 125%	PASS			
Titanium (Ti)	Total	62.4	0.035	0.07	µg/L	20	31.5	155	41 - 143%	FAIL			M
Vanadium (V)	Total	25.4	0.02	0.04	µg/L	20	2.92	112	81 - 127%	PASS			
Zinc (Zn)	Total	22.7	0.0025	0.005	µg/L	20	7.03	78	72 - 116%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56571-MS2	**B18-20116**				**Matrix: Seawater**			**Sampled: 19-Jul-18**	**9:35**		**Received: 20-Jul-18**			
	Method: EPA 245.7				Batch ID: E-15065			Prepared: 01-Sep-18			Analyzed: 01-Sep-18			
Mercury (Hg)	Total	0.948	0.01	0.02	µg/L	1	0	95	76 - 127%	PASS	1	30	PASS	
	Method: EPA 1640				Batch ID: E-16072			Prepared: 07-Aug-18			Analyzed: 22-Oct-18			
Aluminum (Al)	Total	248	3	6	µg/L	20	244	20	82 - 136%	FAIL	67	30	FAIL	SH
Antimony (Sb)	Dissolved	2.13	0.01	0.015	µg/L	20	0.166	10	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	23.4	0.005	0.015	µg/L	20	1.51	109	64 - 133%	PASS	1	30	PASS	
Beryllium (Be)	Total	14.2	0.005	0.01	µg/L	20	0.00769	71	64 - 112%	PASS	3	30	PASS	
Cadmium (Cd)	Dissolved	18.5	0.0025	0.005	µg/L	20	0.0486	92	74 - 107%	PASS	2	30	PASS	
Chromium (Cr)	Total	20.8	0.0125	0.025	µg/L	20	0.497	102	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.4	0.005	0.01	µg/L	20	0.109	96	79 - 112%	PASS	1	30	PASS	
Copper (Cu)	Dissolved	19.9	0.005	0.01	µg/L	20	2.4	88	77 - 107%	PASS	6	30	PASS	
Copper (Cu)	Total	21.2	0.005	0.01	µg/L	20	2.99	91	77 - 107%	PASS	0	30	PASS	
Iron (Fe)	Dissolved	126	0.5	1	µg/L	20	0	630	36 - 108%	FAIL	9	30	PASS	M
Lead (Pb)	Dissolved	19.1	0.0025	0.005	µg/L	20	0.0379	95	77 - 110%	PASS	2	30	PASS	
Manganese (Mn)	Total	25.3	0.01	0.02	µg/L	20	8.47	84	15 - 142%	PASS	6	30	PASS	
Molybdenum (Mo)	Dissolved	24.9	0.005	0.01	µg/L	20	8.17	84	78 - 108%	PASS	5	30	PASS	
Nickel (Ni)	Dissolved	17.7	0.0025	0.005	µg/L	20	0.436	86	75 - 105%	PASS	5	30	PASS	
Selenium (Se)	Dissolved	19.3	0.005	0.015	µg/L	20	0.0133	96	76 - 119%	PASS	5	30	PASS	
Silver (Ag)	Total	7.87	0.01	0.02	µg/L	10	0	79	61 - 113%	PASS	7	30	PASS	
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.00883	91	72 - 109%	PASS	1	30	PASS	
Tin (Sn)	Dissolved	18.1	0.005	0.01	µg/L	20	0.0103	90	61 - 125%	PASS	2	30	PASS	
Titanium (Ti)	Total	52.7	0.035	0.07	µg/L	20	31.5	106	41 - 143%	PASS	37	30	FAIL	M
Vanadium (V)	Total	24.7	0.02	0.04	µg/L	20	2.92	109	81 - 127%	PASS	3	30	PASS	
Zinc (Zn)	Total	22.5	0.0025	0.005	µg/L	20	7.03	77	72 - 116%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56571-R2	**B18-20116**				**Matrix: Seawater**		**Sampled: 19-Jul-18 9:35**			**Received: 20-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15065		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16072		Prepared: 07-Aug-18			Analyzed: 22-Oct-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	242	3	6	µg/L					2	30 PASS	
Antimony (Sb)	Dissolved	0.162	0.01	0.015	µg/L					4	30 PASS	
Antimony (Sb)	Total	0.0984	0.01	0.015	µg/L					4	30 PASS	
Arsenic (As)	Dissolved	1.52	0.005	0.015	µg/L					1	30 PASS	
Arsenic (As)	Total	1.51	0.005	0.015	µg/L					0	30 PASS	
Beryllium (Be)	Dissolved	0.00695	0.005	0.01	µg/L					33	30 FAIL	J,SL
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					102	30 FAIL	SL
Cadmium (Cd)	Dissolved	0.0483	0.0025	0.005	µg/L					1	30 PASS	
Cadmium (Cd)	Total	0.0509	0.0025	0.005	µg/L					2	30 PASS	
Chromium (Cr)	Dissolved	0.107	0.0125	0.025	µg/L					3	30 PASS	
Chromium (Cr)	Total	0.473	0.0125	0.025	µg/L					10	30 PASS	
Cobalt (Co)	Dissolved	0.0564	0.005	0.01	µg/L					8	30 PASS	
Cobalt (Co)	Total	0.104	0.005	0.01	µg/L					10	30 PASS	
Copper (Cu)	Dissolved	2.38	0.005	0.01	µg/L					2	30 PASS	
Copper (Cu)	Total	2.97	0.005	0.01	µg/L					1	30 PASS	
Iron (Fe)	Dissolved	ND	0.5	1	µg/L					0	30 PASS	
Iron (Fe)	Total	111	0.5	1	µg/L					1	30 PASS	
Lead (Pb)	Dissolved	0.0369	0.0025	0.005	µg/L					5	30 PASS	
Lead (Pb)	Total	0.375	0.0025	0.005	µg/L					1	30 PASS	
Manganese (Mn)	Dissolved	3.69	0.01	0.02	µg/L					1	30 PASS	
Manganese (Mn)	Total	8.53	0.01	0.02	µg/L					2	30 PASS	
Molybdenum (Mo)	Dissolved	7.76	0.005	0.01	µg/L					10	30 PASS	
Molybdenum (Mo)	Total	7.53	0.005	0.01	µg/L					4	30 PASS	
Nickel (Ni)	Dissolved	0.436	0.0025	0.005	µg/L					0	30 PASS	
Nickel (Ni)	Total	0.45	0.0025	0.005	µg/L					5	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	0.00779	0.005	0.015	µg/L					83	30	FAIL	J,SL
Selenium (Se)	Total	0.0103	0.005	0.015	µg/L					15	30	PASS	J
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L					0	30	PASS	
Silver (Ag)	Total	ND	0.01	0.02	µg/L					0	30	PASS	
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L					47	30	FAIL	SL
Thallium (Tl)	Total	0.00918	0.005	0.01	µg/L					8	30	PASS	J
Tin (Sn)	Dissolved	0.0116	0.005	0.01	µg/L					25	30	PASS	
Tin (Sn)	Total	0.0113	0.005	0.01	µg/L					10	30	PASS	
Titanium (Ti)	Dissolved	28.3	0.035	0.07	µg/L					44	30	FAIL	NH
Titanium (Ti)	Total	29.5	0.035	0.07	µg/L					13	30	PASS	
Vanadium (V)	Dissolved	2.67	0.02	0.04	µg/L					5	30	PASS	
Vanadium (V)	Total	2.88	0.02	0.04	µg/L					3	30	PASS	
Zinc (Zn)	Dissolved	5.28	0.0025	0.005	µg/L					13	30	PASS	
Zinc (Zn)	Total	8.35	0.0025	0.005	µg/L					38	30	FAIL	NH
Sample ID: 56577-MS1	**B18-10178**				**Matrix: Seawater**			**Sampled: 20-Jul-18**	**11:15**	**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16112			Prepared: 26-Oct-18		Analyzed: 30-Oct-18			
Barium (Ba)	Total	110	0.25	0.5	µg/L	100	8.93	101	90 - 120% PASS				
Sample ID: 56577-MS2	**B18-10178**				**Matrix: Seawater**			**Sampled: 20-Jul-18**	**11:15**	**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16112			Prepared: 26-Oct-18		Analyzed: 30-Oct-18			
Barium (Ba)	Total	110	0.25	0.5	µg/L	100	8.93	101	90 - 120% PASS	0	30	PASS	
Sample ID: 56577-R2	**B18-10178**				**Matrix: Seawater**			**Sampled: 20-Jul-18**	**11:15**	**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16112			Prepared: 26-Oct-18		Analyzed: 30-Oct-18			
Barium (Ba)	Dissolved	8.09	0.25	0.5	µg/L					9	30	PASS	
Barium (Ba)	Total	9.08	0.25	0.5	µg/L					3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57248-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15064		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16071		Prepared: 07-Aug-18			Analyzed: 15-Oct-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16111		Prepared: 26-Oct-18			Analyzed: 30-Oct-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 57248-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15064		Prepared: 01-Sep-18			Analyzed: 01-Sep-18		
Mercury (Hg)	Total	0.941	0.01	0.02	µg/L	1	0	94	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16111		Prepared: 26-Oct-18			Analyzed: 30-Oct-18		
Barium (Ba)	Total	101	0.25	0.5	µg/L	100	0	101	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57248-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 245.7				Batch ID: E-15064			Prepared: 01-Sep-18				Analyzed: 01-Sep-18	
Mercury (Hg)	Total	0.928	0.01	0.02	µg/L	1	0	93	84 - 120%	PASS	1	30 PASS	
	Method: EPA 200.8				Batch ID: E-16111			Prepared: 26-Oct-18				Analyzed: 30-Oct-18	
Barium (Ba)	Total	97.8	0.25	0.5	µg/L	100	0	98	89 - 119%	PASS	3	30 PASS	
Sample ID: 57249-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16072			Prepared: 07-Aug-18				Analyzed: 22-Oct-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0863	0.01	0.015	µg/L								
Arsenic (As)	Total	2.14	0.005	0.015	µg/L								
Beryllium (Be)	Total	0.033	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.106	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.268	0.0125	0.025	µg/L								
Cobalt (Co)	Total	0.0106	0.005	0.01	µg/L								
Copper (Cu)	Total	0.133	0.005	0.01	µg/L								
Iron (Fe)	Total	1.29	0.5	1	µg/L								
Lead (Pb)	Total	0.0762	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.233	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	7.89	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.358	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0501	0.005	0.015	µg/L								
Silver (Ag)	Total	0.0216	0.01	0.02	µg/L								
Thallium (Tl)	Total	0.00548	0.005	0.01	µg/L								
Tin (Sn)	Total	0.016	0.005	0.01	µg/L								
Titanium (Ti)	Total	37.7	0.035	0.07	µg/L								
Vanadium (V)	Total	2.6	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.238	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57249-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**			**Received:**		
	Method: EPA 1640				Batch ID: E-16072		Prepared: 07-Aug-18			Analyzed: 22-Oct-18		
Aluminum (Al)	Total	24.7	3	6	µg/L	20	0	124	82 - 136%	PASS		
Antimony (Sb)	Total	1.69	0.01	0.015	µg/L	20	0.0863	8	0 - 57%	PASS		
Arsenic (As)	Total	24.4	0.005	0.015	µg/L	20	2.14	111	64 - 133%	PASS		
Beryllium (Be)	Total	15	0.005	0.01	µg/L	20	0.033	75	64 - 112%	PASS		
Cadmium (Cd)	Total	19.3	0.0025	0.005	µg/L	20	0.106	96	74 - 107%	PASS		
Chromium (Cr)	Total	21.4	0.0125	0.025	µg/L	20	0.268	106	87 - 117%	PASS		
Cobalt (Co)	Total	18.5	0.005	0.01	µg/L	20	0.0106	92	79 - 112%	PASS		
Copper (Cu)	Total	18.1	0.005	0.01	µg/L	20	0.133	90	77 - 107%	PASS		
Iron (Fe)	Total	12.4	0.5	1	µg/L	20	1.29	56	36 - 108%	PASS		
Lead (Pb)	Total	19.8	0.0025	0.005	µg/L	20	0.0762	99	77 - 110%	PASS		
Manganese (Mn)	Total	19.8	0.01	0.02	µg/L	20	0.233	98	15 - 142%	PASS		
Molybdenum (Mo)	Total	25.4	0.005	0.01	µg/L	20	7.89	88	78 - 108%	PASS		
Nickel (Ni)	Total	17.8	0.0025	0.005	µg/L	20	0.358	87	75 - 105%	PASS		
Selenium (Se)	Total	21.5	0.005	0.015	µg/L	20	0.0501	107	76 - 119%	PASS		
Silver (Ag)	Total	6.52	0.01	0.02	µg/L	10	0.0216	65	61 - 113%	PASS		
Thallium (Tl)	Total	16.7	0.005	0.01	µg/L	20	0.00548	83	72 - 109%	PASS		
Tin (Sn)	Total	19.8	0.005	0.01	µg/L	20	0.016	99	61 - 125%	PASS		
Titanium (Ti)	Total	59.3	0.035	0.07	µg/L	20	37.7	108	41 - 143%	PASS		
Vanadium (V)	Total	24.7	0.02	0.04	µg/L	20	2.6	111	81 - 127%	PASS		
Zinc (Zn)	Total	17.3	0.0025	0.005	µg/L	20	0.238	85	72 - 116%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57249-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16072		Prepared: 07-Aug-18				Analyzed: 22-Oct-18		
Aluminum (Al)	Total	24.7	3	6	µg/L	20	0	124	82 - 136%	PASS	0	30	PASS
Antimony (Sb)	Total	1.67	0.01	0.015	µg/L	20	0.0863	8	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	24.6	0.005	0.015	µg/L	20	2.14	112	64 - 133%	PASS	1	30	PASS
Beryllium (Be)	Total	14.7	0.005	0.01	µg/L	20	0.033	73	64 - 112%	PASS	3	30	PASS
Cadmium (Cd)	Total	19.4	0.0025	0.005	µg/L	20	0.106	96	74 - 107%	PASS	0	30	PASS
Chromium (Cr)	Total	21.4	0.0125	0.025	µg/L	20	0.268	106	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.0106	93	79 - 112%	PASS	1	30	PASS
Copper (Cu)	Total	17.6	0.005	0.01	µg/L	20	0.133	87	77 - 107%	PASS	3	30	PASS
Iron (Fe)	Total	13.2	0.5	1	µg/L	20	1.29	60	36 - 108%	PASS	7	30	PASS
Lead (Pb)	Total	19.9	0.0025	0.005	µg/L	20	0.0762	99	77 - 110%	PASS	0	30	PASS
Manganese (Mn)	Total	20.6	0.01	0.02	µg/L	20	0.233	102	15 - 142%	PASS	4	30	PASS
Molybdenum (Mo)	Total	25.8	0.005	0.01	µg/L	20	7.89	90	78 - 108%	PASS	2	30	PASS
Nickel (Ni)	Total	18	0.0025	0.005	µg/L	20	0.358	88	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	21.4	0.005	0.015	µg/L	20	0.0501	107	76 - 119%	PASS	0	30	PASS
Silver (Ag)	Total	5.66	0.01	0.02	µg/L	10	0.0216	56	61 - 113%	FAIL	15	30	PASS
Thallium (Tl)	Total	16.2	0.005	0.01	µg/L	20	0.00548	81	72 - 109%	PASS	2	30	PASS
Tin (Sn)	Total	19.8	0.005	0.01	µg/L	20	0.016	99	61 - 125%	PASS	0	30	PASS
Titanium (Ti)	Total	65.7	0.035	0.07	µg/L	20	37.7	140	41 - 143%	PASS	26	30	PASS
Vanadium (V)	Total	24.5	0.02	0.04	µg/L	20	2.6	110	81 - 127%	PASS	0	30	PASS
Zinc (Zn)	Total	17.4	0.0025	0.005	µg/L	20	0.238	86	72 - 116%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18				Analyzed: 07-Aug-18	
(d10-Acenaphthene)	Total	91			% Recovery	100	91	65 - 113%	PASS			
(d10-Phenanthrene)	Total	98			% Recovery	100	98	80 - 111%	PASS			
(d12-Chrysene)	Total	116			% Recovery	100	116	60 - 139%	PASS			
(d12-Perylene)	Total	113			% Recovery	100	113	36 - 161%	PASS			
(d8-Naphthalene)	Total	84			% Recovery	100	84	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18			Analyzed: 07-Aug-18		
(d10-Acenaphthene)	Total	86			% Recovery	100	0	86	65 - 113%	PASS		
(d10-Phenanthrene)	Total	96			% Recovery	100	0	96	80 - 111%	PASS		
(d12-Chrysene)	Total	96			% Recovery	100	0	96	60 - 139%	PASS		
(d12-Perylene)	Total	92			% Recovery	100	0	92	36 - 161%	PASS		
(d8-Naphthalene)	Total	78			% Recovery	100	0	78	44 - 119%	PASS		
1-Methylnaphthalene	Total	405	1	5	ng/L	500	0	81	49 - 117%	PASS		
1-Methylphenanthrene	Total	446	1	5	ng/L	500	0	89	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	430	1	5	ng/L	500	0	86	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	415	1	5	ng/L	500	0	83	54 - 117%	PASS		
2-Methylnaphthalene	Total	402	1	5	ng/L	500	0	80	47 - 130%	PASS		
Acenaphthene	Total	425	1	5	ng/L	500	0	85	53 - 131%	PASS		
Acenaphthylene	Total	405	1	5	ng/L	500	0	81	43 - 140%	PASS		
Anthracene	Total	450	1	5	ng/L	500	0	90	58 - 135%	PASS		
Benz[a]anthracene	Total	440	1	5	ng/L	500	0	88	55 - 145%	PASS		
Benzo[a]pyrene	Total	466	1	5	ng/L	500	0	93	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	403	1	5	ng/L	500	0	81	46 - 165%	PASS		
Benzo[e]pyrene	Total	377	1	5	ng/L	500	0	75	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	552	1	5	ng/L	500	0	110	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	418	1	5	ng/L	500	0	84	56 - 145%	PASS		
Biphenyl	Total	429	1	5	ng/L	500	0	86	56 - 119%	PASS		
Chrysene	Total	486	1	5	ng/L	500	0	97	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	496	1	5	ng/L	500	0	99	55 - 150%	PASS		
Dibenzothiophene	Total	450	1	5	ng/L	500	0	90	75 - 113%	PASS		
Fluoranthene	Total	459	1	5	ng/L	500	0	92	60 - 146%	PASS		
Fluorene	Total	434	1	5	ng/L	500	0	87	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	478	1	5	ng/L	500	0	96	50 - 151%	PASS		
Naphthalene	Total	396	1	5	ng/L	500	0	79	41 - 126%	PASS		
Perylene	Total	479	1	5	ng/L	500	0	96	48 - 141%	PASS		
Phenanthrene	Total	457	1	5	ng/L	500	0	91	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	449	1	5	ng/L	500	0	90	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18				Analyzed: 07-Aug-18		
(d10-Acenaphthene)	Total	90			% Recovery	100	0	90	65 - 113%	PASS	5	30 PASS	
(d10-Phenanthrene)	Total	97			% Recovery	100	0	97	80 - 111%	PASS	1	30 PASS	
(d12-Chrysene)	Total	102			% Recovery	100	0	102	60 - 139%	PASS	6	30 PASS	
(d12-Perylene)	Total	96			% Recovery	100	0	96	36 - 161%	PASS	4	30 PASS	
(d8-Naphthalene)	Total	73			% Recovery	100	0	73	44 - 119%	PASS	7	30 PASS	
1-Methylnaphthalene	Total	410	1	5	ng/L	500	0	82	49 - 117%	PASS	1	30 PASS	
1-Methylphenanthrene	Total	433	1	5	ng/L	500	0	87	66 - 127%	PASS	2	30 PASS	
2,3,5-Trimethylnaphthalene	Total	450	1	5	ng/L	500	0	90	57 - 120%	PASS	5	30 PASS	
2,6-Dimethylnaphthalene	Total	432	1	5	ng/L	500	0	86	54 - 117%	PASS	4	30 PASS	
2-Methylnaphthalene	Total	403	1	5	ng/L	500	0	81	47 - 130%	PASS	1	30 PASS	
Acenaphthene	Total	447	1	5	ng/L	500	0	89	53 - 131%	PASS	5	30 PASS	
Acenaphthylene	Total	426	1	5	ng/L	500	0	85	43 - 140%	PASS	5	30 PASS	
Anthracene	Total	453	1	5	ng/L	500	0	91	58 - 135%	PASS	1	30 PASS	
Benz[a]anthracene	Total	457	1	5	ng/L	500	0	91	55 - 145%	PASS	3	30 PASS	
Benzo[a]pyrene	Total	499	1	5	ng/L	500	0	100	51 - 143%	PASS	7	30 PASS	
Benzo[b]fluoranthene	Total	418	1	5	ng/L	500	0	84	46 - 165%	PASS	4	30 PASS	
Benzo[e]pyrene	Total	396	1	5	ng/L	500	0	79	42 - 152%	PASS	5	30 PASS	
Benzo[g,h,i]perylene	Total	499	1	5	ng/L	500	0	100	63 - 133%	PASS	10	30 PASS	
Benzo[k]fluoranthene	Total	428	1	5	ng/L	500	0	86	56 - 145%	PASS	2	30 PASS	
Biphenyl	Total	450	1	5	ng/L	500	0	90	56 - 119%	PASS	5	30 PASS	
Chrysene	Total	523	1	5	ng/L	500	0	105	56 - 141%	PASS	8	30 PASS	
Dibenz[a,h]anthracene	Total	464	1	5	ng/L	500	0	93	55 - 150%	PASS	6	30 PASS	
Dibenzothiophene	Total	459	1	5	ng/L	500	0	92	75 - 113%	PASS	2	30 PASS	
Fluoranthene	Total	432	1	5	ng/L	500	0	86	60 - 146%	PASS	7	30 PASS	
Fluorene	Total	461	1	5	ng/L	500	0	92	58 - 131%	PASS	6	30 PASS	
Indeno[1,2,3-cd]pyrene	Total	441	1	5	ng/L	500	0	88	50 - 151%	PASS	9	30 PASS	
Naphthalene	Total	373	1	5	ng/L	500	0	75	41 - 126%	PASS	5	30 PASS	
Perylene	Total	492	1	5	ng/L	500	0	98	48 - 141%	PASS	2	30 PASS	
Phenanthrene	Total	463	1	5	ng/L	500	0	93	67 - 127%	PASS	2	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	418	1	5	ng/L	500	0	84	54 - 156%	PASS	7	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56562-MS1	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18**	**9:00**		**Received: 20-Jul-18**		
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18			Analyzed: 07-Aug-18		
(d10-Acenaphthene)	Total	84			% Recovery	100	0	84	45 - 118%		PASS	
(d10-Phenanthrene)	Total	96			% Recovery	100	0	96	56 - 123%		PASS	
(d12-Chrysene)	Total	85			% Recovery	100	0	85	36 - 142%		PASS	
(d12-Perylene)	Total	85			% Recovery	100	0	85	36 - 161%		PASS	
(d8-Naphthalene)	Total	68			% Recovery	100	0	68	20 - 112%		PASS	
1-Methylnaphthalene	Total	431	1	5	ng/L	562	0	77	39 - 104%		PASS	
1-Methylphenanthrene	Total	555	1	5	ng/L	562	0	99	62 - 136%		PASS	
2,3,5-Trimethylnaphthalene	Total	496	1	5	ng/L	562	0	88	47 - 132%		PASS	
2,6-Dimethylnaphthalene	Total	461	1	5	ng/L	562	0	82	37 - 118%		PASS	
2-Methylnaphthalene	Total	432	1	5	ng/L	562	0	77	33 - 113%		PASS	
Acenaphthene	Total	464	1	5	ng/L	562	0	83	51 - 116%		PASS	
Acenaphthylene	Total	453	1	5	ng/L	562	0	81	53 - 127%		PASS	
Anthracene	Total	510	1	5	ng/L	562	0	91	60 - 126%		PASS	
Benz[a]anthracene	Total	562	1	5	ng/L	562	0	100	51 - 165%		PASS	
Benzo[a]pyrene	Total	481	1	5	ng/L	562	0	86	24 - 170%		PASS	
Benzo[b]fluoranthene	Total	569	1	5	ng/L	562	1.37	101	38 - 158%		PASS	
Benzo[e]pyrene	Total	509	1	5	ng/L	562	0	91	26 - 157%		PASS	
Benzo[g,h,i]perylene	Total	547	1	5	ng/L	562	0	97	57 - 133%		PASS	
Benzo[k]fluoranthene	Total	498	1	5	ng/L	562	0	89	27 - 167%		PASS	
Biphenyl	Total	462	1	5	ng/L	562	0	82	41 - 111%		PASS	
Chrysene	Total	500	1	5	ng/L	562	0	89	58 - 136%		PASS	
Dibenz[a,h]anthracene	Total	613	1	5	ng/L	562	0	109	53 - 156%		PASS	
Dibenzothiophene	Total	524	1	5	ng/L	562	0	93	69 - 112%		PASS	
Fluoranthene	Total	578	1	5	ng/L	562	4.84	102	61 - 147%		PASS	
Fluorene	Total	495	1	5	ng/L	562	0	88	62 - 120%		PASS	
Indeno[1,2,3-cd]pyrene	Total	597	1	5	ng/L	562	1.2	106	58 - 147%		PASS	
Naphthalene	Total	399	1	5	ng/L	562	0	71	22 - 110%		PASS	
Perylene	Total	495	1	5	ng/L	562	0	88	34 - 147%		PASS	
Phenanthrene	Total	515	1	5	ng/L	562	0	92	64 - 121%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	587	1	5	ng/L	562	2.51	104	65 - 146%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56562-MS2	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18**	**9:00**		**Received: 20-Jul-18**			
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18			Analyzed: 07-Aug-18			
(d10-Acenaphthene)	Total	75			% Recovery	100	0	75	45 - 118%	PASS	11	30	PASS
(d10-Phenanthrene)	Total	94			% Recovery	100	0	94	56 - 123%	PASS	2	30	PASS
(d12-Chrysene)	Total	87			% Recovery	100	0	87	36 - 142%	PASS	2	30	PASS
(d12-Perylene)	Total	86			% Recovery	100	0	86	36 - 161%	PASS	1	30	PASS
(d8-Naphthalene)	Total	61			% Recovery	100	0	61	20 - 112%	PASS	11	30	PASS
1-Methylnaphthalene	Total	383	1	5	ng/L	568	0	67	39 - 104%	PASS	14	30	PASS
1-Methylphenanthrene	Total	569	1	5	ng/L	568	0	100	62 - 136%	PASS	1	30	PASS
2,3,5-Trimethylnaphthalene	Total	452	1	5	ng/L	568	0	80	47 - 132%	PASS	10	30	PASS
2,6-Dimethylnaphthalene	Total	412	1	5	ng/L	568	0	73	37 - 118%	PASS	12	30	PASS
2-Methylnaphthalene	Total	387	1	5	ng/L	568	0	68	33 - 113%	PASS	12	30	PASS
Acenaphthene	Total	419	1	5	ng/L	568	0	74	51 - 116%	PASS	11	30	PASS
Acenaphthylene	Total	412	1	5	ng/L	568	0	73	53 - 127%	PASS	10	30	PASS
Anthracene	Total	512	1	5	ng/L	568	0	90	60 - 126%	PASS	1	30	PASS
Benz[a]anthracene	Total	610	1	5	ng/L	568	0	107	51 - 165%	PASS	7	30	PASS
Benzo[a]pyrene	Total	492	1	5	ng/L	568	0	87	24 - 170%	PASS	1	30	PASS
Benzo[b]fluoranthene	Total	635	1	5	ng/L	568	1.37	112	38 - 158%	PASS	10	30	PASS
Benzo[e]pyrene	Total	549	1	5	ng/L	568	0	97	26 - 157%	PASS	6	30	PASS
Benzo[g,h,i]perylene	Total	536	1	5	ng/L	568	0	94	57 - 133%	PASS	3	30	PASS
Benzo[k]fluoranthene	Total	528	1	5	ng/L	568	0	93	27 - 167%	PASS	4	30	PASS
Biphenyl	Total	413	1	5	ng/L	568	0	73	41 - 111%	PASS	12	30	PASS
Chrysene	Total	525	1	5	ng/L	568	0	92	58 - 136%	PASS	3	30	PASS
Dibenz[a,h]anthracene	Total	662	1	5	ng/L	568	0	117	53 - 156%	PASS	7	30	PASS
Dibenzothiophene	Total	515	1	5	ng/L	568	0	91	69 - 112%	PASS	2	30	PASS
Fluoranthene	Total	603	1	5	ng/L	568	4.84	105	61 - 147%	PASS	3	30	PASS
Fluorene	Total	464	1	5	ng/L	568	0	82	62 - 120%	PASS	7	30	PASS
Indeno[1,2,3-cd]pyrene	Total	650	1	5	ng/L	568	1.2	114	58 - 147%	PASS	7	30	PASS
Naphthalene	Total	361	1	5	ng/L	568	0	64	22 - 110%	PASS	10	30	PASS
Perylene	Total	505	1	5	ng/L	568	0	89	34 - 147%	PASS	1	30	PASS
Phenanthrene	Total	510	1	5	ng/L	568	0	90	64 - 121%	PASS	2	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	613	1	5	ng/L	568	2.51	107	65 - 146%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56562-R2	**B18-10076**				**Matrix: Seawater**		**Sampled: 18-Jul-18 9:00**				**Received: 20-Jul-18**			
	Method: EPA 625				Batch ID: O-20044		Prepared: 23-Jul-18				Analyzed: 07-Aug-18			
(d10-Acenaphthene)	Total	67			% Recovery	100	67	45 - 118%	PASS		11	30	PASS	
(d10-Phenanthrene)	Total	96			% Recovery	100	96	56 - 123%	PASS		0	30	PASS	
(d12-Chrysene)	Total	72			% Recovery	100	72	36 - 142%	PASS		3	30	PASS	
(d12-Perylene)	Total	78			% Recovery	100	78	36 - 161%	PASS		4	30	PASS	
(d8-Naphthalene)	Total	43			% Recovery	100	43	20 - 112%	PASS		30	30	PASS	
1-Methylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
1-Methylphenanthrene	Total	ND	1	5	ng/L						0	30	PASS	
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2-Methylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
Acenaphthene	Total	ND	1	5	ng/L						0	30	PASS	
Acenaphthylene	Total	ND	1	5	ng/L						0	30	PASS	
Anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benz[a]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[a]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[b]fluoranthene	Total	1.16	1	5	ng/L						31	30	FAIL	J,SL
Benzo[e]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[k]fluoranthene	Total	ND	1	5	ng/L						0	30	PASS	
Biphenyl	Total	ND	1	5	ng/L						0	30	PASS	
Chrysene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenzothiophene	Total	ND	1	5	ng/L						0	30	PASS	
Fluoranthene	Total	4.94	1	5	ng/L						4	30	PASS	J
Fluorene	Total	ND	1	5	ng/L						0	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	1.29	1	5	ng/L						15	30	PASS	J
Naphthalene	Total	ND	1	5	ng/L						0	30	PASS	
Perylene	Total	ND	1	5	ng/L						0	30	PASS	
Phenanthrene	Total	ND	1	5	ng/L						0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	2.47	1	5	ng/L					3	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56559-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	ND	1	1	mg/L								
Sample ID: 56559-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	38	1	1	mg/L	40	0	95	70 - 110%	PASS			
Sample ID: 56559-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	37.9	1	1	mg/L	40	0	95	70 - 110%	PASS	0	30 PASS	
Sample ID: 56562-MS1	**B18-10076**				**Matrix: Seawater**			**Sampled: 18-Jul-18 9:00**				**Received: 20-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	39.3	1	1	mg/L	40	0	98	67 - 110%	PASS			
Sample ID: 56562-MS2	**B18-10076**				**Matrix: Seawater**			**Sampled: 18-Jul-18 9:00**				**Received: 20-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	41.7	1	1	mg/L	40	0	104	67 - 110%	PASS	6	30 PASS	
Sample ID: 56562-R2	**B18-10076**				**Matrix: Seawater**			**Sampled: 18-Jul-18 9:00**				**Received: 20-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19116			Prepared: 30-Jul-18				Analyzed: 30-Jul-18	
Oil & Grease	NA	ND	1	1	mg/L						0	30 PASS	

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)	COMMENTS
	7/18/2018	0800	seawater	B18-10022	13	X	X	X	X	X	X	X	X	X	X	
	7/18/2018	0900	seawater	B18-10076	21	X	X	X	X	X	X	X	X	X	X	extra volume for MS/MSD analysis
	7/18/2018	0700	seawater	B18-10077	13	X	X	X	X	X	X	X	X	X	X	
	7/18/2018	1015	seawater	B18-10112	13	X	X	X	X	X	X	X	X	X	X	
	7/18/2018	1110	seawater	B18-10113	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	1240	seawater	B18-10024	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	1110	seawater	B18-10029	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	1015	seawater	B18-10114	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	0700	seawater	B18-10115	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	0840	seawater	B18-10116	13	X	X	X	X	X	X	X	X	X	X	
	7/19/2018	0935	seawater	B18-20116	13	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
	7/20 1445	
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS:	PHONE: 858-300-4316
9210 Sky Park Ct., Suite 200	FAX: 858-300-4301
San Diego, CA 92123	EMAIL: chris.stransky@woodplc.com
	corey.sheredy@woodplc.com
PROJECT MANAGER	SAMPLER
Chris Stransky, Corey Sheredy	Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C) *	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/20/2018	1025	seawater	B18-10031	13	X	X	X	X	X	X	X	X	X	X
	7/20/2018	1350	seawater	B18-10032	13	X	X	X	X	X	X	X	X	X	X
	7/20/2018	0715	seawater	B18-10119	13	X	X	X	X	X	X	X	X	X	X
	7/20/2018	0820	seawater	B18-10121	13	X	X	X	X	X	X	X	X	X	X
	7/20/2018	0930	seawater	B18-10123	13	X	X	X	X	X	X	X	X	X	X
	7/20/2018	1115	seawater	B18-10178	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/20/18 1445	RBS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-007

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/20/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 15	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 16:45 ☐ Other:	☐ Other :	☐ None 4.8 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-009

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/27/2018. A total of 12 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-009

2018 Regional Harbor Monitoring Program Total Samples: 12

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56669	B18-10124		7/26/2018	9:15	Seawater
56670	B18-10126		7/26/2018	12:30	Seawater
56671	B18-10127		7/26/2018	10:25	Seawater
56672	B18-10132		7/26/2018	13:30	Seawater
56673	B18-10133		7/26/2018	7:25	Seawater
56674	B18-20133		7/26/2018	10:40	Seawater
56675	B18-10136		7/27/2018	8:00	Seawater
56676	B18-10137		7/27/2018	7:05	Seawater
56677	B18-10139		7/27/2018	8:50	Seawater
56678	B18-10140		7/27/2018	9:50	Seawater
56679	B18-10141		7/27/2018	12:25	Seawater
56680	B18-10142		7/27/2018	11:00	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

POLYNUCLEAR AROMATIC HYDROCARBONS

2 One or more LMW surrogate and target analytes were below the specified acceptance limits as a result of increased loss of this compound during sample preparation due to compound volatility. All other surrogate and target analyte recoveries in the other QC and project samples were within acceptance limits and were therefore not affected.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56669-R1	**B18-10124**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**9:15**		**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0353	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.92	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.005	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.01	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0402	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.54	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56670-R1	**B18-10126**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**12:30**		**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0324	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.78	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0173	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.94	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0407	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	2.65	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56671-R1	**B18-10127**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**10:25**		**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0148	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.64	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0055	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.82	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0379	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	2.1	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56672-R1	**B18-10132**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**13:30**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0186	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.99	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.056	0.005	0.025	NA		C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.76	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0397	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.06	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56673-R1	**B18-10133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**7:25**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0175	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.73	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0109	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.75	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0383	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	2.89	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56674-R1	**B18-20133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**10:40**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0498	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.52	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0169	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.83	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0462	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.6	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56675-R1	**B18-10136**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**8:00**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0269	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.69	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0055	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.93	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0457	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.59	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56676-R1	**B18-10137**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**7:05**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0212	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.84	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.72	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0467	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	2.45	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56677-R1	**B18-10139**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**8:50**	**Received: 27-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0311	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.56	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0132	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.93	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0475	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.79	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56678-R1	**B18-10140**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**9:50**	**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0293	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.66	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	0.0091	0.005	0.025	NA	J	C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.65	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0472	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	3.5	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56679-R1	**B18-10141**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**12:25**	**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0182	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.76	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.83	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0461	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	4.7	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18
Sample ID: 56680-R1	**B18-10142**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**11:00**	**Received: 27-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0485	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.68	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
MBAS	SM 5540 C	mg/L	ND	0.005	0.025	NA		C-38046	28-Jul-18	28-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38110	11-Sep-18	11-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.93	0.14	0.2	NA		O-16057	27-Jul-18	27-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0386	0.01	0.02	NA	1	C-38048	31-Jul-18	31-Jul-18
Total Suspended Solids	SM 2540 D	mg/L	4.4	0.5	0.5	NA		C-40010	31-Jul-18	31-Jul-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56669-R1	**B18-10124**			**Matrix: Seawater**		**Sampled: 26-Jul-18**		**9:15**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	85.6	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.112	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.119	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.67	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.86	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.3	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0534	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0567	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.269	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.122	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0362	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.016	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.83	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.34	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	42.9	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.157	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0359	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.87	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.33	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.03	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.1	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.53	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.513	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0129	0.005	0.015	Total	J	E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0161	0.005	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0353	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0303	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00906	0.005	0.01	Total	J	E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	25	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	18.6	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.48	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.91	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.84	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56670-R1	**B18-10126**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**12:30**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	93.1	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.106	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.116	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.65	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.56	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.9	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.81	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00632	0.005	0.01	Total	J	E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0532	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0507	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.293	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.123	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0314	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	4.05	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.28	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	50.2	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.18	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0367	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.82	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.19	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.25	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.1	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.534	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.477	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0117	0.005	0.015	Total	J	E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0114	0.005	0.015	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0226	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0257	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	22	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	20.8	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.47	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.63	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.21	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56671-R1	**B18-10127**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:25**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	98.9	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.122	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.43	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.26	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.1	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0551	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0535	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.256	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.115	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.021	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.39	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.19	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	50.9	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.167	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0322	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	10.1	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.69	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.94	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.26	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.513	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.484	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0117	0.005	0.015	Total	J	E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00799	0.005	0.015	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0172	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0149	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00638	0.005	0.01	Total	J	E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	21.6	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	21.5	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.5	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.51	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.28	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.68	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56672-R1	**B18-10132**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**13:30**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	88.6	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0991	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.138	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.54	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.39	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.03	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0549	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.628	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.25	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.114	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0185	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.21	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.58	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	45.1	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.147	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	1.85	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	10.2	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.64	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.96	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.39	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.489	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.476	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.02	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0146	0.005	0.015	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0194	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0168	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00644	0.005	0.01	Total	J	E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.11	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	24.5	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	15.6	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.55	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.38	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.55	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.68	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56673-R1	**B18-10133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**7:25**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	115	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.142	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.149	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.46	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.36	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.44	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.21	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.116	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0645	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.297	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.115	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0285	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.81	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.4	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	77.4	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	1.09	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.38	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0729	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	10.4	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.19	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.25	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.42	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.624	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.597	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0198	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0161	0.005	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0162	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0154	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0269	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	23.3	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	17.5	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.49	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.4	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	7.32	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.95	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56674-R1	**B18-20133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:40**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	220	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.12	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	7.9	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.76	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0561	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0616	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.454	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.12	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0572	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.91	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.02	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	134	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.355	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0433	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11.6	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.47	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.28	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.33	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.557	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.571	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0241	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0325	0.005	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.017	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0132	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0128	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	26.4	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	19.8	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.68	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.47	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.56	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.61	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56675-R1	**B18-10136**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	93.1	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.103	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.108	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.4	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.68	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0727	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0573	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.261	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.114	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0287	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.47	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.19	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	48.2	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.23	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0284	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.26	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	7.54	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.91	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.54	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.514	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.48	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0171	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0202	0.005	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0162	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00598	0.005	0.01	Total	J	E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	22.9	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	21.7	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.47	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.45	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.16	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.78	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56676-R1	**B18-10137**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**7:05**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	135	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	3.17	3	6	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.116	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.42	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.63	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.16	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0571	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0575	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.284	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.103	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0317	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.25	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.73	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	73.7	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.984	0.5	1	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.188	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0459	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	10.9	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.56	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.82	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.91	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.482	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.42	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0191	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0125	0.005	0.015	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0108	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0104	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	24.1	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	19.9	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.43	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.18	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.04	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56677-R1	**B18-10139**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**8:50**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	137	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.103	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.113	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.45	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.7	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.61	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0591	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0623	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.302	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.215	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0337	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	4.74	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	4.13	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	79.5	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.187	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0457	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.44	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.16	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.05	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.543	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.482	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0182	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0175	0.005	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.015	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	24.5	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	17.9	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.54	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.35	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.85	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.85	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56678-R1	**B18-10140**			**Matrix: Seawater**		**Sampled: 27-Jul-18**		**9:50**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	145	3	6	Total		E-16122	02-Nov-18	03-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16122	02-Nov-18	03-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.106	0.01	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.119	0.01	0.015	Dissolved		E-16122	02-Nov-18	04-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16122	02-Nov-18	03-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.33	0.005	0.015	Dissolved		E-16122	02-Nov-18	03-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.12	0.25	0.5	Total		E-16122	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	7.68	0.25	0.5	Dissolved		E-16122	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.111	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0457	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.318	0.0125	0.025	Total		E-16122	02-Nov-18	03-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.104	0.0125	0.025	Dissolved		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0328	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Cobalt (Co)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.73	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.9	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	83.2	0.5	1	Total		E-16122	02-Nov-18	04-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.372	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0229	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11.1	0.01	0.02	Total		E-16122	02-Nov-18	03-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.74	0.01	0.02	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15077	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15077	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.56	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.96	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.471	0.0025	0.005	Total		E-16122	02-Nov-18	04-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.452	0.0025	0.005	Dissolved		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0183	0.005	0.015	Total		E-16122	02-Nov-18	04-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00948	0.005	0.015	Dissolved	J	E-16122	02-Nov-18	04-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0119	0.01	0.02	Total	J	E-16122	02-Nov-18	03-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0115	0.01	0.02	Dissolved	J	E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16122	02-Nov-18	03-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	03-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0276	0.005	0.01	Total		E-16122	02-Nov-18	04-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16122	02-Nov-18	04-Dec-18
Titanium (Ti)	EPA 1640	µg/L	25.6	0.035	0.07	Total		E-16122	02-Nov-18	03-Dec-18
Titanium (Ti)	EPA 1640	µg/L	18.1	0.035	0.07	Dissolved		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Total		E-16122	02-Nov-18	03-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.25	0.02	0.04	Dissolved		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.33	0.0025	0.005	Total		E-16122	02-Nov-18	03-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.59	0.0025	0.005	Dissolved		E-16122	02-Nov-18	03-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56679-R1	**B18-10141**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**12:25**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	184	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0918	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.135	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.42	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.45	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.57	0.25	0.5	Total		E-16123	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.54	0.25	0.5	Dissolved		E-16123	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0104	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0404	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0418	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.311	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0375	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0987	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0614	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.18	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.3	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	89.3	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.158	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11.1	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	7.93	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.25	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.08	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.472	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.454	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.012	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00855	0.005	0.015	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.009	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0126	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0117	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00845	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	18.5	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	9.17	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.62	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.33	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.34	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.69	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56680-R1	**B18-10142**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**11:00**	**Received: 27-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	181	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0937	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.107	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.35	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.4	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.9	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.67	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0384	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0489	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.289	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.05	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.112	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0605	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.58	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	3	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	81	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.15	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.7	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.99	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.47	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.23	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.505	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.485	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00946	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0161	0.005	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0142	0.01	0.02	Total	J	E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0092	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00544	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00984	0.005	0.01	Total	J	E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00515	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	17.1	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	11.5	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.74	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.39	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.32	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.83	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56669-R1	**B18-10124**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**9:15**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	94			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	105			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	97			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	107			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	93			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.26	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.43	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.56	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.22	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	2.33	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56670-R1	**B18-10126**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**12:30**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	93			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	101			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	84			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	97			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	92			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.57	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.32	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.57	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	1.44	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	1.12	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	3.02	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.67	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.58	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	2.5	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56671-R1	**B18-10127**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:25**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	90			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	100			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	91			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	100			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	88			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.44	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	3.01	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.41	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.46	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.97	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56672-R1	**B18-10132**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**13:30**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	89			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	105			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	95			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	108			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	79			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.35	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	1.06	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.54	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.52	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.27	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.67	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56673-R1	**B18-10133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**	**7:25**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	98			Total		O-20048	30-Jul-18	05-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	108			Total		O-20048	30-Jul-18	05-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	94			Total		O-20048	30-Jul-18	05-Sep-18
(d12-Perylene)	EPA 625	% Recovery	98			Total		O-20048	30-Jul-18	05-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	99			Total		O-20048	30-Jul-18	05-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Acenaphthene	EPA 625	ng/L	2.89	1	5	Total	J	O-20048	30-Jul-18	05-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Fluoranthene	EPA 625	ng/L	3.01	1	5	Total	J	O-20048	30-Jul-18	05-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	05-Sep-18
Phenanthrene	EPA 625	ng/L	2.51	1	5	Total	J	O-20048	30-Jul-18	05-Sep-18
Pyrene	EPA 625	ng/L	1.71	1	5	Total	J	O-20048	30-Jul-18	05-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56674-R1	**B18-20133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:40**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	91			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	103			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	84			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	100			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	95			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.44	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.6	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.58	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	1.94	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	2.06	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56675-R1	**B18-10136**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**8:00**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	83			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	104			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	84			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	104			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	47			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.45	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	3.27	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.55	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.74	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	2.03	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56676-R1	**B18-10137**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**7:05**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	93			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	105			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	80			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	102			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	94			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.18	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.63	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.66	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.75	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.51	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.73	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56677-R1	**B18-10139**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**8:50**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	98			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	108			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	80			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	103			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	95			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	1.07	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.51	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	3.03	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.96	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.74	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.34	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.88	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56678-R1	**B18-10140**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**9:50**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	88			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	102			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	80			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	100			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	75			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	3.16	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.94	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.51	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.85	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.84	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56679-R1	**B18-10141**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**12:25**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	82			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	103			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	80			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	102			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	54			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.08	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	2.35	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.8	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.6	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.34	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.6	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56680-R1	**B18-10142**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**11:00**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	79			Total		O-20048	30-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	101			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	83			Total		O-20048	30-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	105			Total		O-20048	30-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	45			Total		O-20048	30-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	4.86	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	5.37	1	5	Total		O-20048	30-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.64	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20048	30-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	3.9	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	2.7	1	5	Total	J	O-20048	30-Jul-18	06-Sep-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56669-R1	**B18-10124**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**9:15**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56670-R1	**B18-10126**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**12:30**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56671-R1	**B18-10127**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:25**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56672-R1	**B18-10132**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**13:30**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56673-R1	**B18-10133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**7:25**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56674-R1	**B18-20133**		**Matrix: Seawater**			**Sampled: 26-Jul-18**		**10:40**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56675-R1	**B18-10136**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56676-R1	**B18-10137**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**7:05**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56677-R1	**B18-10139**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**8:50**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56678-R1	**B18-10140**		**Matrix: Seawater**			**Sampled: 27-Jul-18**		**9:50**	**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56679-R1	**B18-10141**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**12:25**		**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56680-R1	**B18-10142**		**Matrix: Seawater**			**Sampled: 27-Jul-18**	**11:00**		**Received: 27-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 20-Aug-18**			**Analyzed: 20-Aug-18**			
56667-B1	QAQC Procedural Blank	C-39035	ND	0.007	0.03	mg/L									
56667-BS1	QAQC Procedural Blank	C-39035	0.0456	0.007	0.03	mg/L	0.05	0	91	62 - 157%	PASS				
56667-BS2	QAQC Procedural Blank	C-39035	0.0474	0.007	0.03	mg/L	0.05	0	95	62 - 157%	PASS	4	30	PASS	
56673-MS1	B18-10133	C-39035	0.0663	0.007	0.03	mg/L	0.05	0.0182	96	17 - 186%	PASS				
56673-MS2	B18-10133	C-39035	0.0675	0.007	0.03	mg/L	0.05	0.0182	99	17 - 186%	PASS	3	30	PASS	
56673-R2	B18-10133	C-39035	0.0188	0.007	0.03	mg/L						7	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 27-Jul-18**			**Analyzed: 27-Jul-18**			
56667-B1	QAQC Procedural Blank	O-16057	ND	0.14	0.2	mg/L									
56667-BS1	QAQC Procedural Blank	O-16057	9.32	0.14	0.2	mg/L	10	0	93	67 - 114%	PASS				
56667-BS2	QAQC Procedural Blank	O-16057	9.62	0.14	0.2	mg/L	10	0	96	67 - 114%	PASS	3	30	PASS	
56673-MS1	B18-10133	O-16057	12.2	0.14	0.2	mg/L	10	1.69	105	50 - 150%	PASS				
56673-MS2	B18-10133	O-16057	12.3	0.14	0.2	mg/L	10	1.69	106	50 - 150%	PASS	1	30	PASS	
56673-R2	B18-10133	O-16057	1.64	0.14	0.2	mg/L						5	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**			**Prepared: 28-Jul-18**			**Analyzed: 28-Jul-18**			
56667-B1	QAQC Procedural Blank	C-38046	ND	0.005	0.025	mg/L									
56667-BS1	QAQC Procedural Blank	C-38046	0.0829	0.005	0.025	mg/L	0.1	0	83	15 - 152%	PASS				
56667-BS2	QAQC Procedural Blank	C-38046	0.0852	0.005	0.025	mg/L	0.1	0	85	15 - 152%	PASS	2	30	PASS	
56673-MS1	B18-10133	C-38046	0.0729	0.005	0.025	mg/L	0.1	0.00955	63	61 - 137%	PASS				
56673-MS2	B18-10133	C-38046	0.0733	0.005	0.025	mg/L	0.1	0.00955	64	61 - 137%	PASS	2	30	PASS	
56673-R2	B18-10133	C-38046	0.0082	0.005	0.025	mg/L						28	30	PASS	J
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**			**Prepared: 11-Sep-18**			**Analyzed: 11-Sep-18**			
56667-B1	QAQC Procedural Blank	C-38110	ND	0.01	0.02	mg/L									
56667-BS1	QAQC Procedural Blank	C-38110	0.537	0.01	0.02	mg/L	0.5	0	107	68 - 135%	PASS				
56667-BS2	QAQC Procedural Blank	C-38110	0.537	0.01	0.02	mg/L	0.5	0	107	68 - 135%	PASS	0	30	PASS	
56673-MS1	B18-10133	C-38110	0.553	0.01	0.02	mg/L	0.5	0	111	36 - 176%	PASS				
56673-MS2	B18-10133	C-38110	0.558	0.01	0.02	mg/L	0.5	0	112	36 - 176%	PASS	1	30	PASS	
56673-R2	B18-10133	C-38110	ND	0.01	0.02	mg/L						0	30	PASS	1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56674-MS1	B18-20133	C-38110	0.57	0.01	0.02	mg/L	0.5	0	114	36 - 176%	PASS				
56674-MS2	B18-20133	C-38110	0.563	0.01	0.02	mg/L	0.5	0	113	36 - 176%	PASS	1	30	PASS	
56674-R2	B18-20133	C-38110	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon		**Method: SM 5310 B**				**Fraction: NA**		**Prepared: 27-Jul-18**				**Analyzed: 27-Jul-18**			
56667-B1	QAQC Procedural Blank	O-16057	ND	0.14	0.2	mg/L									
56667-BS1	QAQC Procedural Blank	O-16057	9.32	0.14	0.2	mg/L	10	0	93	63 - 133%	PASS				
56667-BS2	QAQC Procedural Blank	O-16057	9.62	0.14	0.2	mg/L	10	0	96	63 - 133%	PASS	3	30	PASS	
56673-MS1	B18-10133	O-16057	12.2	0.14	0.2	mg/L	10	1.74	105	50 - 150%	PASS				
56673-MS2	B18-10133	O-16057	12.4	0.14	0.2	mg/L	10	1.74	107	50 - 150%	PASS	2	30	PASS	
56673-R2	B18-10133	O-16057	1.72	0.14	0.2	mg/L						2	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**		**Prepared: 31-Jul-18**				**Analyzed: 31-Jul-18**			
56667-B1	QAQC Procedural Blank	C-38048	ND	0.01	0.02	mg/L									
56667-BS1	QAQC Procedural Blank	C-38048	0.218	0.01	0.02	mg/L	0.2	0	109	42 - 153%	PASS				
56667-BS2	QAQC Procedural Blank	C-38048	0.232	0.01	0.02	mg/L	0.2	0	116	42 - 153%	PASS	6	30	PASS	
56673-MS1	B18-10133	C-38048	0.253	0.01	0.02	mg/L	0.2	0.0384	107	54 - 130%	PASS				
56673-MS2	B18-10133	C-38048	0.27	0.01	0.02	mg/L	0.2	0.0384	116	54 - 130%	PASS	8	30	PASS	
56673-R2	B18-10133	C-38048	0.0384	0.01	0.02	mg/L						0	30	PASS	1
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**		**Prepared: 31-Jul-18**				**Analyzed: 31-Jul-18**			
56667-B1	QAQC Procedural Blank	C-40010	ND	0.5	0.5	mg/L									
56673-R2	B18-10133	C-40010	4.5	0.5	0.5	mg/L						44	30	FAIL	SL

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20469-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 05-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 20469-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.08	0.01	0.02	µg/L	1	0	108	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	100	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20469-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18					Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS	3	30 PASS	
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18					Analyzed: 13-Dec-18	
Barium (Ba)	Total	99.7	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS	0	30 PASS	
Sample ID: 20613-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**					**Received:**	
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18					Analyzed: 05-Dec-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0726	0.01	0.015	µg/L								
Arsenic (As)	Total	1.86	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0991	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.146	0.0125	0.025	µg/L								
Cobalt (Co)	Total	0.00714	0.005	0.01	µg/L								
Copper (Cu)	Total	0.303	0.005	0.01	µg/L								
Iron (Fe)	Total	0.65	0.5	1	µg/L								
Lead (Pb)	Total	0.00939	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.0524	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.02	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.351	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0371	0.005	0.015	µg/L								
Silver (Ag)	Total	ND	0.01	0.02	µg/L								
Thallium (Tl)	Total	0.0111	0.005	0.01	µg/L								
Tin (Sn)	Total	0.00534	0.005	0.01	µg/L								
Titanium (Ti)	Total	5.33	0.035	0.07	µg/L								
Vanadium (V)	Total	1.94	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.322	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20613-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18				Analyzed: 05-Dec-18	
Aluminum (Al)	Total	23.4	3	6	µg/L	20	0	117	82 - 136%			PASS
Antimony (Sb)	Total	1.61	0.01	0.015	µg/L	20	0.0726	8	0 - 57%			PASS
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.86	106	64 - 133%			PASS
Beryllium (Be)	Total	19.6	0.005	0.01	µg/L	20	0	98	64 - 112%			PASS
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%			PASS
Chromium (Cr)	Total	20	0.0125	0.025	µg/L	20	0.146	99	87 - 117%			PASS
Cobalt (Co)	Total	18.8	0.005	0.01	µg/L	20	0.00714	94	79 - 112%			PASS
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%			PASS
Iron (Fe)	Total	14.9	0.5	1	µg/L	20	0.65	71	36 - 108%			PASS
Lead (Pb)	Total	19.3	0.0025	0.005	µg/L	20	0.00939	96	77 - 110%			PASS
Manganese (Mn)	Total	17	0.01	0.02	µg/L	20	0.0524	85	15 - 142%			PASS
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%			PASS
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.351	93	75 - 105%			PASS
Selenium (Se)	Total	18.4	0.005	0.015	µg/L	20	0.0371	92	76 - 119%			PASS
Silver (Ag)	Total	8.46	0.01	0.02	µg/L	10	0	85	61 - 113%			PASS
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.0111	91	72 - 109%			PASS
Tin (Sn)	Total	18.3	0.005	0.01	µg/L	20	0.00534	91	61 - 125%			PASS
Titanium (Ti)	Total	26.7	0.035	0.07	µg/L	20	5.33	107	41 - 143%			PASS
Vanadium (V)	Total	23.2	0.02	0.04	µg/L	20	1.94	106	81 - 127%			PASS
Zinc (Zn)	Total	19.6	0.0025	0.005	µg/L	20	0.322	96	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20613-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18				Analyzed: 05-Dec-18		
Aluminum (Al)	Total	22.4	3	6	µg/L	20	0	112	82 - 136%	PASS	4	30	PASS
Antimony (Sb)	Total	1.52	0.01	0.015	µg/L	20	0.0726	7	0 - 57%	PASS	13	30	PASS
Arsenic (As)	Total	23.7	0.005	0.015	µg/L	20	1.86	109	64 - 133%	PASS	3	30	PASS
Beryllium (Be)	Total	19.7	0.005	0.01	µg/L	20	0	99	64 - 112%	PASS	0	30	PASS
Cadmium (Cd)	Total	18.9	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%	PASS	0	30	PASS
Chromium (Cr)	Total	19.9	0.0125	0.025	µg/L	20	0.146	99	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.00714	93	79 - 112%	PASS	1	30	PASS
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	15.1	0.5	1	µg/L	20	0.65	72	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	19.1	0.0025	0.005	µg/L	20	0.00939	95	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	18.7	0.01	0.02	µg/L	20	0.0524	93	15 - 142%	PASS	9	30	PASS
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%	PASS	0	30	PASS
Nickel (Ni)	Total	19.2	0.0025	0.005	µg/L	20	0.351	94	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	18.9	0.005	0.015	µg/L	20	0.0371	94	76 - 119%	PASS	2	30	PASS
Silver (Ag)	Total	8.9	0.01	0.02	µg/L	10	0	89	61 - 113%	PASS	5	30	PASS
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0.0111	93	72 - 109%	PASS	2	30	PASS
Tin (Sn)	Total	18.9	0.005	0.01	µg/L	20	0.00534	94	61 - 125%	PASS	3	30	PASS
Titanium (Ti)	Total	25.7	0.035	0.07	µg/L	20	5.33	102	41 - 143%	PASS	5	30	PASS
Vanadium (V)	Total	22.8	0.02	0.04	µg/L	20	1.94	104	81 - 127%	PASS	2	30	PASS
Zinc (Zn)	Total	18.7	0.0025	0.005	µg/L	20	0.322	92	72 - 116%	PASS	4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56667-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15077		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16122		Prepared: 02-Nov-18			Analyzed: 03-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16122		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 56667-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15077		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.03	0.01	0.02	µg/L	1	0	103	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16122		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	101	0.25	0.5	µg/L	100	0	101	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56667-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 245.7				Batch ID: E-15077		Prepared: 03-Sep-18					Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.03	0.01	0.02	µg/L	1	0	103	84 - 120%	PASS	0	30 PASS	
	Method: EPA 200.8				Batch ID: E-16122		Prepared: 02-Nov-18					Analyzed: 13-Dec-18	
Barium (Ba)	Total	98.8	0.25	0.5	µg/L	100	0	99	89 - 119%	PASS	2	30 PASS	
Sample ID: 56668-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**					**Received:**	
	Method: EPA 1640				Batch ID: E-16122		Prepared: 02-Nov-18					Analyzed: 03-Dec-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0792	0.01	0.015	µg/L								
Arsenic (As)	Total	2	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0996	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.209	0.0125	0.025	µg/L								
Cobalt (Co)	Total	ND	0.005	0.01	µg/L								
Copper (Cu)	Total	0.25	0.005	0.01	µg/L								
Iron (Fe)	Total	0.908	0.5	1	µg/L								
Lead (Pb)	Total	0.0475	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.0763	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.29	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.34	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0479	0.005	0.015	µg/L								
Silver (Ag)	Total	0.0108	0.01	0.02	µg/L								
Thallium (Tl)	Total	ND	0.005	0.01	µg/L								
Tin (Sn)	Total	ND	0.005	0.01	µg/L								
Titanium (Ti)	Total	11.7	0.035	0.07	µg/L								
Vanadium (V)	Total	1.87	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.502	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56668-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16122		Prepared: 02-Nov-18				Analyzed: 03-Dec-18	
Aluminum (Al)	Total	19.4	3	6	µg/L	20	0	97	82 - 136%		PASS	
Antimony (Sb)	Total	1.19	0.01	0.015	µg/L	20	0.0792	6	0 - 57%		PASS	
Arsenic (As)	Total	22.3	0.005	0.015	µg/L	20	2	101	64 - 133%		PASS	
Beryllium (Be)	Total	15	0.005	0.01	µg/L	20	0	75	64 - 112%		PASS	
Cadmium (Cd)	Total	18.5	0.0025	0.005	µg/L	20	0.0996	92	74 - 107%		PASS	
Chromium (Cr)	Total	19.4	0.0125	0.025	µg/L	20	0.209	96	87 - 117%		PASS	
Cobalt (Co)	Total	18.1	0.005	0.01	µg/L	20	0	91	79 - 112%		PASS	
Copper (Cu)	Total	18.8	0.005	0.01	µg/L	20	0.25	93	77 - 107%		PASS	
Iron (Fe)	Total	14.2	0.5	1	µg/L	20	0.908	66	36 - 108%		PASS	
Lead (Pb)	Total	19.5	0.0025	0.005	µg/L	20	0.0475	97	77 - 110%		PASS	
Manganese (Mn)	Total	17.4	0.01	0.02	µg/L	20	0.0763	87	15 - 142%		PASS	
Molybdenum (Mo)	Total	27.7	0.005	0.01	µg/L	20	9.29	92	78 - 108%		PASS	
Nickel (Ni)	Total	18.5	0.0025	0.005	µg/L	20	0.34	91	75 - 105%		PASS	
Selenium (Se)	Total	18.7	0.005	0.015	µg/L	20	0.0479	93	76 - 119%		PASS	
Silver (Ag)	Total	6.44	0.01	0.02	µg/L	10	0.0108	64	61 - 113%		PASS	
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0	94	72 - 109%		PASS	
Tin (Sn)	Total	18.4	0.005	0.01	µg/L	20	0	92	61 - 125%		PASS	
Titanium (Ti)	Total	34.4	0.035	0.07	µg/L	20	11.7	113	41 - 143%		PASS	
Vanadium (V)	Total	21	0.02	0.04	µg/L	20	1.87	96	81 - 127%		PASS	
Zinc (Zn)	Total	17.5	0.0025	0.005	µg/L	20	0.502	85	72 - 116%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56668-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16122		Prepared: 02-Nov-18				Analyzed: 03-Dec-18		
Aluminum (Al)	Total	19.2	3	6	µg/L	20	0	96	82 - 136%	PASS	1	30	PASS
Antimony (Sb)	Total	1.19	0.01	0.015	µg/L	20	0.0792	6	0 - 57%	PASS	0	30	PASS
Arsenic (As)	Total	22.3	0.005	0.015	µg/L	20	2	101	64 - 133%	PASS	0	30	PASS
Beryllium (Be)	Total	14.6	0.005	0.01	µg/L	20	0	73	64 - 112%	PASS	3	30	PASS
Cadmium (Cd)	Total	18.4	0.0025	0.005	µg/L	20	0.0996	92	74 - 107%	PASS	0	30	PASS
Chromium (Cr)	Total	19.1	0.0125	0.025	µg/L	20	0.209	94	87 - 117%	PASS	2	30	PASS
Cobalt (Co)	Total	18	0.005	0.01	µg/L	20	0	90	79 - 112%	PASS	0	30	PASS
Copper (Cu)	Total	18.8	0.005	0.01	µg/L	20	0.25	93	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	13.6	0.5	1	µg/L	20	0.908	63	36 - 108%	PASS	5	30	PASS
Lead (Pb)	Total	19.3	0.0025	0.005	µg/L	20	0.0475	96	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	17.6	0.01	0.02	µg/L	20	0.0763	88	15 - 142%	PASS	1	30	PASS
Molybdenum (Mo)	Total	28	0.005	0.01	µg/L	20	9.29	94	78 - 108%	PASS	2	30	PASS
Nickel (Ni)	Total	18.4	0.0025	0.005	µg/L	20	0.34	90	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	17.8	0.005	0.015	µg/L	20	0.0479	89	76 - 119%	PASS	4	30	PASS
Silver (Ag)	Total	7.95	0.01	0.02	µg/L	10	0.0108	79	61 - 113%	PASS	21	30	PASS
Thallium (Tl)	Total	18.9	0.005	0.01	µg/L	20	0	94	72 - 109%	PASS	0	30	PASS
Tin (Sn)	Total	18.7	0.005	0.01	µg/L	20	0	94	61 - 125%	PASS	2	30	PASS
Titanium (Ti)	Total	31.1	0.035	0.07	µg/L	20	11.7	97	41 - 143%	PASS	16	30	PASS
Vanadium (V)	Total	20.8	0.02	0.04	µg/L	20	1.87	95	81 - 127%	PASS	1	30	PASS
Zinc (Zn)	Total	17.7	0.0025	0.005	µg/L	20	0.502	86	72 - 116%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56673-MS1	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18 7:25**				**Received: 27-Jul-18**	
	Method: EPA 245.7				Batch ID: E-15077			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.15	0.01	0.02	µg/L	1	0	115	76 - 127%	PASS			
	Method: EPA 1640				Batch ID: E-16122			Prepared: 02-Nov-18				Analyzed: 03-Dec-18	
Aluminum (Al)	Total	127	3	6	µg/L	20	113	70	82 - 136%	FAIL			SH
Antimony (Sb)	Total	2.08	0.01	0.015	µg/L	20	0.142	10	0 - 57%	PASS			
Arsenic (As)	Total	22.8	0.005	0.015	µg/L	20	1.45	107	64 - 133%	PASS			
Beryllium (Be)	Total	14.4	0.005	0.01	µg/L	20	0	72	64 - 112%	PASS			
Cadmium (Cd)	Total	17.1	0.0025	0.005	µg/L	20	0.0831	85	74 - 107%	PASS			
Chromium (Cr)	Total	19.6	0.0125	0.025	µg/L	20	0.308	96	87 - 117%	PASS			
Cobalt (Co)	Total	18.5	0.005	0.01	µg/L	20	0.0275	92	79 - 112%	PASS			
Copper (Cu)	Total	21.5	0.005	0.01	µg/L	20	3.72	89	77 - 107%	PASS			
Iron (Fe)	Total	93.9	0.5	1	µg/L	20	77.3	83	36 - 108%	PASS			
Lead (Pb)	Total	18.8	0.0025	0.005	µg/L	20	0.28	93	77 - 110%	PASS			
Manganese (Mn)	Total	27.1	0.01	0.02	µg/L	20	10.3	84	15 - 142%	PASS			
Molybdenum (Mo)	Total	27.2	0.005	0.01	µg/L	20	9.2	90	78 - 108%	PASS			
Nickel (Ni)	Total	18	0.0025	0.005	µg/L	20	0.635	87	75 - 105%	PASS			
Selenium (Se)	Total	16.6	0.005	0.015	µg/L	20	0.0218	83	76 - 119%	PASS			
Silver (Ag)	Total	8.08	0.01	0.02	µg/L	10	0.00812	81	61 - 113%	PASS			
Thallium (Tl)	Total	19	0.005	0.01	µg/L	20	0	95	72 - 109%	PASS			
Tin (Sn)	Total	18	0.005	0.01	µg/L	20	0.0134	90	61 - 125%	PASS			
Titanium (Ti)	Total	43.5	0.035	0.07	µg/L	20	22.6	104	41 - 143%	PASS			
Vanadium (V)	Total	21.9	0.02	0.04	µg/L	20	2.51	97	81 - 127%	PASS			
Zinc (Zn)	Total	22.7	0.0025	0.005	µg/L	20	6.43	81	72 - 116%	PASS			
	Method: EPA 200.8				Batch ID: E-16122			Prepared: 02-Nov-18				Analyzed: 13-Dec-18	
Barium (Ba)	Total	121	0.25	0.5	µg/L	100	8.55	112	90 - 120%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56673-MS2	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18**	**7:25**			**Received: 27-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15077			Prepared: 03-Sep-18				Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.17	0.01	0.02	µg/L	1	0	117	76 - 127%	PASS	2	30	PASS	
	Method: EPA 1640				Batch ID: E-16122			Prepared: 02-Nov-18				Analyzed: 03-Dec-18		
Aluminum (Al)	Total	125	3	6	µg/L	20	113	60	82 - 136%	FAIL	15	30	PASS	SH
Antimony (Sb)	Total	1.97	0.01	0.015	µg/L	20	0.142	9	0 - 57%	PASS	11	30	PASS	
Arsenic (As)	Total	22.4	0.005	0.015	µg/L	20	1.45	105	64 - 133%	PASS	2	30	PASS	
Beryllium (Be)	Total	14.1	0.005	0.01	µg/L	20	0	71	64 - 112%	PASS	1	30	PASS	
Cadmium (Cd)	Total	16.9	0.0025	0.005	µg/L	20	0.0831	84	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	19.4	0.0125	0.025	µg/L	20	0.308	95	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	18.1	0.005	0.01	µg/L	20	0.0275	90	79 - 112%	PASS	2	30	PASS	
Copper (Cu)	Total	21.1	0.005	0.01	µg/L	20	3.72	87	77 - 107%	PASS	2	30	PASS	
Iron (Fe)	Total	90.4	0.5	1	µg/L	20	77.3	65	36 - 108%	PASS	24	30	PASS	
Lead (Pb)	Total	18.4	0.0025	0.005	µg/L	20	0.28	91	77 - 110%	PASS	2	30	PASS	
Manganese (Mn)	Total	27.4	0.01	0.02	µg/L	20	10.3	85	15 - 142%	PASS	1	30	PASS	
Molybdenum (Mo)	Total	26.6	0.005	0.01	µg/L	20	9.2	87	78 - 108%	PASS	3	30	PASS	
Nickel (Ni)	Total	17.9	0.0025	0.005	µg/L	20	0.635	86	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	17.9	0.005	0.015	µg/L	20	0.0218	89	76 - 119%	PASS	7	30	PASS	
Silver (Ag)	Total	8.22	0.01	0.02	µg/L	10	0.00812	82	61 - 113%	PASS	1	30	PASS	
Thallium (Tl)	Total	19.1	0.005	0.01	µg/L	20	0	96	72 - 109%	PASS	1	30	PASS	
Tin (Sn)	Total	17.8	0.005	0.01	µg/L	20	0.0134	89	61 - 125%	PASS	1	30	PASS	
Titanium (Ti)	Total	40.8	0.035	0.07	µg/L	20	22.6	91	41 - 143%	PASS	13	30	PASS	
Vanadium (V)	Total	21.8	0.02	0.04	µg/L	20	2.51	96	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	21.6	0.0025	0.005	µg/L	20	6.43	76	72 - 116%	PASS	6	30	PASS	
	Method: EPA 200.8				Batch ID: E-16122			Prepared: 02-Nov-18				Analyzed: 13-Dec-18		
Barium (Ba)	Total	116	0.25	0.5	µg/L	100	8.55	107	90 - 120%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56673-R2	**B18-10133**				**Matrix: Seawater**		**Sampled: 26-Jul-18 7:25**			**Received: 27-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15077		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16122		Prepared: 02-Nov-18			Analyzed: 03-Dec-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	111	3	6	µg/L					4	30 PASS	
Antimony (Sb)	Dissolved	0.146	0.01	0.015	µg/L					2	30 PASS	
Antimony (Sb)	Total	0.143	0.01	0.015	µg/L					1	30 PASS	
Arsenic (As)	Dissolved	1.52	0.005	0.015	µg/L					11	30 PASS	
Arsenic (As)	Total	1.45	0.005	0.015	µg/L					1	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.0483	0.0025	0.005	µg/L					29	30 PASS	
Cadmium (Cd)	Total	0.0503	0.0025	0.005	µg/L					79	30 FAIL	NH
Chromium (Cr)	Dissolved	0.0983	0.0125	0.025	µg/L					16	30 PASS	
Chromium (Cr)	Total	0.319	0.0125	0.025	µg/L					7	30 PASS	
Cobalt (Co)	Dissolved	0.014	0.005	0.01	µg/L					95	30 FAIL	SL
Cobalt (Co)	Total	0.0265	0.005	0.01	µg/L					7	30 PASS	
Copper (Cu)	Dissolved	3.13	0.005	0.01	µg/L					8	30 PASS	
Copper (Cu)	Total	3.63	0.005	0.01	µg/L					5	30 PASS	
Iron (Fe)	Dissolved	0.836	0.5	1	µg/L					26	30 PASS	J
Iron (Fe)	Total	77.2	0.5	1	µg/L					0	30 PASS	
Lead (Pb)	Dissolved	0.037	0.0025	0.005	µg/L					65	30 FAIL	NH
Lead (Pb)	Total	0.181	0.0025	0.005	µg/L					71	30 FAIL	NH
Manganese (Mn)	Dissolved	8.27	0.01	0.02	µg/L					1	30 PASS	
Manganese (Mn)	Total	10.2	0.01	0.02	µg/L					2	30 PASS	
Molybdenum (Mo)	Dissolved	9.58	0.005	0.01	µg/L					2	30 PASS	
Molybdenum (Mo)	Total	9.15	0.005	0.01	µg/L					1	30 PASS	
Nickel (Ni)	Dissolved	0.652	0.0025	0.005	µg/L					9	30 PASS	
Nickel (Ni)	Total	0.646	0.0025	0.005	µg/L					3	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	0.0402	0.005	0.015	µg/L					86	30	FAIL	SL
Selenium (Se)	Total	0.0239	0.005	0.015	µg/L					19	30	PASS	
Silver (Ag)	Dissolved	0.0149	0.01	0.02	µg/L					3	30	PASS	J
Silver (Ag)	Total	ND	0.01	0.02	µg/L					47	30	FAIL	SL
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Thallium (Tl)	Total	ND	0.005	0.01	µg/L					0	30	PASS	
Tin (Sn)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Tin (Sn)	Total	ND	0.005	0.01	µg/L					137	30	FAIL	SL
Titanium (Ti)	Dissolved	16.1	0.035	0.07	µg/L					8	30	PASS	
Titanium (Ti)	Total	21.9	0.035	0.07	µg/L					6	30	PASS	
Vanadium (V)	Dissolved	2.38	0.02	0.04	µg/L					1	30	PASS	
Vanadium (V)	Total	2.53	0.02	0.04	µg/L					2	30	PASS	
Zinc (Zn)	Dissolved	4.8	0.0025	0.005	µg/L					3	30	PASS	
Zinc (Zn)	Total	5.54	0.0025	0.005	µg/L					28	30	PASS	
	Method: EPA 200.8				Batch ID: E-16122		Prepared: 02-Nov-18				Analyzed: 13-Dec-18		
Barium (Ba)	Dissolved	7.8	0.25	0.5	µg/L					5	30	PASS	
Barium (Ba)	Total	8.66	0.25	0.5	µg/L					3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56667-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20048		Prepared: 30-Jul-18				Analyzed: 05-Sep-18	
(d10-Acenaphthene)	Total	96			% Recovery	100	96	65 - 113%	PASS			
(d10-Phenanthrene)	Total	104			% Recovery	100	104	80 - 111%	PASS			
(d12-Chrysene)	Total	90			% Recovery	100	90	60 - 139%	PASS			
(d12-Perylene)	Total	90			% Recovery	100	90	36 - 161%	PASS			
(d8-Naphthalene)	Total	88			% Recovery	100	88	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56667-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20048		Prepared: 30-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	81			% Recovery	100	0	81	65 - 113%	PASS		
(d10-Phenanthrene)	Total	101			% Recovery	100	0	101	80 - 111%	PASS		
(d12-Chrysene)	Total	95			% Recovery	100	0	95	60 - 139%	PASS		
(d12-Perylene)	Total	97			% Recovery	100	0	97	36 - 161%	PASS		
(d8-Naphthalene)	Total	44			% Recovery	100	0	44	44 - 119%	PASS		
1-Methylnaphthalene	Total	243	1	5	ng/L	500	0	49	49 - 117%	PASS		
1-Methylphenanthrene	Total	489	1	5	ng/L	500	0	98	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	511	1	5	ng/L	500	0	102	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	352	1	5	ng/L	500	0	70	54 - 117%	PASS		
2-Methylnaphthalene	Total	258	1	5	ng/L	500	0	52	47 - 130%	PASS		
Acenaphthene	Total	382	1	5	ng/L	500	0	76	53 - 131%	PASS		
Acenaphthylene	Total	355	1	5	ng/L	500	0	71	43 - 140%	PASS		
Anthracene	Total	401	1	5	ng/L	500	0	80	58 - 135%	PASS		
Benz[a]anthracene	Total	442	1	5	ng/L	500	0	88	55 - 145%	PASS		
Benzo[a]pyrene	Total	434	1	5	ng/L	500	0	87	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	583	1	5	ng/L	500	0	117	46 - 165%	PASS		
Benzo[e]pyrene	Total	572	1	5	ng/L	500	0	114	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	464	1	5	ng/L	500	0	93	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	559	1	5	ng/L	500	0	112	56 - 145%	PASS		
Biphenyl	Total	353	1	5	ng/L	500	0	71	56 - 119%	PASS		
Chrysene	Total	422	1	5	ng/L	500	0	84	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	418	1	5	ng/L	500	0	84	55 - 150%	PASS		
Dibenzothiophene	Total	487	1	5	ng/L	500	0	97	75 - 113%	PASS		
Fluoranthene	Total	490	1	5	ng/L	500	0	98	60 - 146%	PASS		
Fluorene	Total	455	1	5	ng/L	500	0	91	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	442	1	5	ng/L	500	0	88	50 - 151%	PASS		
Naphthalene	Total	205	1	5	ng/L	500	0	41	41 - 126%	PASS		
Perylene	Total	446	1	5	ng/L	500	0	89	48 - 141%	PASS		
Phenanthrene	Total	478	1	5	ng/L	500	0	96	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	504	1	5	ng/L	500	0	101	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56667-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 625				Batch ID: O-20048		Prepared: 30-Jul-18				Analyzed: 05-Sep-18			
(d10-Acenaphthene)	Total	91			% Recovery	100	0	91	65 - 113%	PASS	12	30	PASS	
(d10-Phenanthrene)	Total	103			% Recovery	100	0	103	80 - 111%	PASS	2	30	PASS	
(d12-Chrysene)	Total	85			% Recovery	100	0	85	60 - 139%	PASS	11	30	PASS	
(d12-Perylene)	Total	97			% Recovery	100	0	97	36 - 161%	PASS	0	30	PASS	
(d8-Naphthalene)	Total	73			% Recovery	100	0	73	44 - 119%	PASS	50	30	FAIL	2
1-Methylnaphthalene	Total	334	1	5	ng/L	500	0	67	49 - 117%	PASS	31	30	FAIL	2
1-Methylphenanthrene	Total	485	1	5	ng/L	500	0	97	66 - 127%	PASS	1	30	PASS	
2,3,5-Trimethylnaphthalene	Total	533	1	5	ng/L	500	0	107	57 - 120%	PASS	5	30	PASS	
2,6-Dimethylnaphthalene	Total	420	1	5	ng/L	500	0	84	54 - 117%	PASS	18	30	PASS	
2-Methylnaphthalene	Total	354	1	5	ng/L	500	0	71	47 - 130%	PASS	31	30	FAIL	2
Acenaphthene	Total	434	1	5	ng/L	500	0	87	53 - 131%	PASS	13	30	PASS	
Acenaphthylene	Total	403	1	5	ng/L	500	0	81	43 - 140%	PASS	13	30	PASS	
Anthracene	Total	413	1	5	ng/L	500	0	83	58 - 135%	PASS	4	30	PASS	
Benz[a]anthracene	Total	398	1	5	ng/L	500	0	80	55 - 145%	PASS	10	30	PASS	
Benzo[a]pyrene	Total	434	1	5	ng/L	500	0	87	51 - 143%	PASS	0	30	PASS	
Benzo[b]fluoranthene	Total	614	1	5	ng/L	500	0	123	46 - 165%	PASS	5	30	PASS	
Benzo[e]pyrene	Total	582	1	5	ng/L	500	0	116	42 - 152%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	Total	454	1	5	ng/L	500	0	91	63 - 133%	PASS	2	30	PASS	
Benzo[k]fluoranthene	Total	585	1	5	ng/L	500	0	117	56 - 145%	PASS	4	30	PASS	
Biphenyl	Total	419	1	5	ng/L	500	0	84	56 - 119%	PASS	17	30	PASS	
Chrysene	Total	377	1	5	ng/L	500	0	75	56 - 141%	PASS	11	30	PASS	
Dibenz[a,h]anthracene	Total	383	1	5	ng/L	500	0	77	55 - 150%	PASS	9	30	PASS	
Dibenzothiophene	Total	504	1	5	ng/L	500	0	101	75 - 113%	PASS	4	30	PASS	
Fluoranthene	Total	488	1	5	ng/L	500	0	98	60 - 146%	PASS	0	30	PASS	
Fluorene	Total	473	1	5	ng/L	500	0	95	58 - 131%	PASS	4	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	437	1	5	ng/L	500	0	87	50 - 151%	PASS	1	30	PASS	
Naphthalene	Total	345	1	5	ng/L	500	0	69	41 - 126%	PASS	51	30	FAIL	2
Perylene	Total	430	1	5	ng/L	500	0	86	48 - 141%	PASS	3	30	PASS	
Phenanthrene	Total	487	1	5	ng/L	500	0	97	67 - 127%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	490	1	5	ng/L	500	0	98	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56673-MS1	**B18-10133**				**Matrix: Seawater**		**Sampled: 26-Jul-18**	**7:25**		**Received: 27-Jul-18**		
	Method: EPA 625				Batch ID: O-20048		Prepared: 30-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	73			% Recovery	100	0	73	45 - 118%			PASS
(d10-Phenanthrene)	Total	100			% Recovery	100	0	100	56 - 123%			PASS
(d12-Chrysene)	Total	84			% Recovery	100	0	84	36 - 142%			PASS
(d12-Perylene)	Total	95			% Recovery	100	0	95	36 - 161%			PASS
(d8-Naphthalene)	Total	39			% Recovery	100	0	39	20 - 112%			PASS
1-Methylnaphthalene	Total	247	1	5	ng/L	568	0	43	39 - 104%			PASS
1-Methylphenanthrene	Total	554	1	5	ng/L	568	0	98	62 - 136%			PASS
2,3,5-Trimethylnaphthalene	Total	555	1	5	ng/L	568	0	98	47 - 132%			PASS
2,6-Dimethylnaphthalene	Total	370	1	5	ng/L	568	0	65	37 - 118%			PASS
2-Methylnaphthalene	Total	259	1	5	ng/L	568	0	46	33 - 113%			PASS
Acenaphthene	Total	397	1	5	ng/L	568	2.51	69	51 - 116%			PASS
Acenaphthylene	Total	376	1	5	ng/L	568	0	66	53 - 127%			PASS
Anthracene	Total	457	1	5	ng/L	568	0	80	60 - 126%			PASS
Benz[a]anthracene	Total	461	1	5	ng/L	568	0	81	51 - 165%			PASS
Benzo[a]pyrene	Total	487	1	5	ng/L	568	0	86	24 - 170%			PASS
Benzo[b]fluoranthene	Total	689	1	5	ng/L	568	0	121	38 - 158%			PASS
Benzo[e]pyrene	Total	662	1	5	ng/L	568	0	117	26 - 157%			PASS
Benzo[g,h,i]perylene	Total	519	1	5	ng/L	568	0	91	57 - 133%			PASS
Benzo[k]fluoranthene	Total	660	1	5	ng/L	568	0	116	27 - 167%			PASS
Biphenyl	Total	370	1	5	ng/L	568	0	65	41 - 111%			PASS
Chrysene	Total	427	1	5	ng/L	568	0	75	58 - 136%			PASS
Dibenz[a,h]anthracene	Total	449	1	5	ng/L	568	0	79	53 - 156%			PASS
Dibenzothiophene	Total	558	1	5	ng/L	568	0	98	69 - 112%			PASS
Fluoranthene	Total	544	1	5	ng/L	568	2.84	95	61 - 147%			PASS
Fluorene	Total	499	1	5	ng/L	568	0.756	88	62 - 120%			PASS
Indeno[1,2,3-cd]pyrene	Total	484	1	5	ng/L	568	0	85	58 - 147%			PASS
Naphthalene	Total	208	1	5	ng/L	568	0	37	22 - 110%			PASS
Perylene	Total	492	1	5	ng/L	568	0	87	34 - 147%			PASS
Phenanthrene	Total	540	1	5	ng/L	568	2.32	95	64 - 121%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	552	1	5	ng/L	568	1.68	97	65 - 146%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56673-MS2	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18 7:25**			**Received: 27-Jul-18**			
	Method: EPA 625				Batch ID: O-20048			Prepared: 30-Jul-18			Analyzed: 05-Sep-18			
(d10-Acenaphthene)	Total	87			% Recovery	100	0	87	45 - 118%	PASS	18	30	PASS	
(d10-Phenanthrene)	Total	98			% Recovery	100	0	98	56 - 123%	PASS	2	30	PASS	
(d12-Chrysene)	Total	84			% Recovery	100	0	84	36 - 142%	PASS	0	30	PASS	
(d12-Perylene)	Total	98			% Recovery	100	0	98	36 - 161%	PASS	3	30	PASS	
(d8-Naphthalene)	Total	72			% Recovery	100	0	72	20 - 112%	PASS	59	30	FAIL	2
1-Methylnaphthalene	Total	394	1	5	ng/L	581	0	68	39 - 104%	PASS	45	30	FAIL	2
1-Methylphenanthrene	Total	554	1	5	ng/L	581	0	95	62 - 136%	PASS	3	30	PASS	
2,3,5-Trimethylnaphthalene	Total	597	1	5	ng/L	581	0	103	47 - 132%	PASS	5	30	PASS	
2,6-Dimethylnaphthalene	Total	472	1	5	ng/L	581	0	81	37 - 118%	PASS	22	30	PASS	
2-Methylnaphthalene	Total	421	1	5	ng/L	581	0	72	33 - 113%	PASS	44	30	FAIL	2
Acenaphthene	Total	494	1	5	ng/L	581	2.51	85	51 - 116%	PASS	21	30	PASS	
Acenaphthylene	Total	459	1	5	ng/L	581	0	79	53 - 127%	PASS	18	30	PASS	
Anthracene	Total	468	1	5	ng/L	581	0	81	60 - 126%	PASS	1	30	PASS	
Benz[a]anthracene	Total	463	1	5	ng/L	581	0	80	51 - 165%	PASS	1	30	PASS	
Benzo[a]pyrene	Total	501	1	5	ng/L	581	0	86	24 - 170%	PASS	0	30	PASS	
Benzo[b]fluoranthene	Total	675	1	5	ng/L	581	0	116	38 - 158%	PASS	4	30	PASS	
Benzo[e]pyrene	Total	661	1	5	ng/L	581	0	114	26 - 157%	PASS	3	30	PASS	
Benzo[g,h,i]perylene	Total	526	1	5	ng/L	581	0	91	57 - 133%	PASS	0	30	PASS	
Benzo[k]fluoranthene	Total	646	1	5	ng/L	581	0	111	27 - 167%	PASS	4	30	PASS	
Biphenyl	Total	485	1	5	ng/L	581	0	83	41 - 111%	PASS	24	30	PASS	
Chrysene	Total	437	1	5	ng/L	581	0	75	58 - 136%	PASS	0	30	PASS	
Dibenz[a,h]anthracene	Total	460	1	5	ng/L	581	0	79	53 - 156%	PASS	0	30	PASS	
Dibenzothiophene	Total	561	1	5	ng/L	581	0	97	69 - 112%	PASS	1	30	PASS	
Fluoranthene	Total	565	1	5	ng/L	581	2.84	97	61 - 147%	PASS	2	30	PASS	
Fluorene	Total	522	1	5	ng/L	581	0.756	90	62 - 120%	PASS	2	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	490	1	5	ng/L	581	0	84	58 - 147%	PASS	1	30	PASS	
Naphthalene	Total	398	1	5	ng/L	581	0	69	22 - 110%	PASS	60	30	FAIL	2
Perylene	Total	524	1	5	ng/L	581	0	90	34 - 147%	PASS	3	30	PASS	
Phenanthrene	Total	541	1	5	ng/L	581	2.32	93	64 - 121%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	568	1	5	ng/L	581	1.68	97	65 - 146%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56673-R2	**B18-10133**				**Matrix: Seawater**		**Sampled: 26-Jul-18 7:25**				**Received: 27-Jul-18**			
	Method: EPA 625				Batch ID: O-20048		Prepared: 30-Jul-18				Analyzed: 05-Sep-18			
(d10-Acenaphthene)	Total	91			% Recovery	100	91	45 - 118%	PASS		7	30	PASS	
(d10-Phenanthrene)	Total	100			% Recovery	100	100	56 - 123%	PASS		8	30	PASS	
(d12-Chrysene)	Total	81			% Recovery	100	81	36 - 142%	PASS		15	30	PASS	
(d12-Perylene)	Total	96			% Recovery	100	96	36 - 161%	PASS		2	30	PASS	
(d8-Naphthalene)	Total	91			% Recovery	100	91	20 - 112%	PASS		8	30	PASS	
1-Methylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
1-Methylphenanthrene	Total	ND	1	5	ng/L						0	30	PASS	
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2-Methylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
Acenaphthene	Total	2.12	1	5	ng/L						31	30	FAIL	J,SL
Acenaphthylene	Total	ND	1	5	ng/L						0	30	PASS	
Anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benz[a]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[a]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[b]fluoranthene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[e]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[k]fluoranthene	Total	ND	1	5	ng/L						0	30	PASS	
Biphenyl	Total	ND	1	5	ng/L						0	30	PASS	
Chrysene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenzothiophene	Total	ND	1	5	ng/L						0	30	PASS	
Fluoranthene	Total	2.66	1	5	ng/L						12	30	PASS	J
Fluorene	Total	1.51	1	5	ng/L						41	30	FAIL	J,SL
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Naphthalene	Total	ND	1	5	ng/L						0	30	PASS	
Perylene	Total	ND	1	5	ng/L						0	30	PASS	
Phenanthrene	Total	2.12	1	5	ng/L						17	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	1.65	1	5	ng/L					4	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56667-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	ND	1	1	mg/L									
Sample ID: 56667-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	41.9	1	1	mg/L	40	0	105	70 - 110%	PASS				
Sample ID: 56667-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	39	1	1	mg/L	40	0	98	70 - 110%	PASS	7	30	PASS	
Sample ID: 56673-MS1	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18 7:25**				**Received: 27-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	47.8	1	1	mg/L	40	0	119	67 - 110%	FAIL				M
Sample ID: 56673-MS2	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18 7:25**				**Received: 27-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	43.9	1	1	mg/L	40	0	110	67 - 110%	PASS	8	30	PASS	
Sample ID: 56673-R2	**B18-10133**				**Matrix: Seawater**			**Sampled: 26-Jul-18 7:25**				**Received: 27-Jul-18**		
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18		
Oil & Grease	NA	ND	1	1	mg/L						0	30	PASS	

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)	COMMENTS
	7/26/2018	0915	seawater	B18-10124	13	X	X	X	X	X	X	X	X	X	X	
	7/26/2018	1230	seawater	B18-10126	13	X	X	X	X	X	X	X	X	X	X	
	7/26/2018	1025	seawater	B18-10127	13	X	X	X	X	X	X	X	X	X	X	
	7/26/2018	1330	seawater	B18-10132	13	X	X	X	X	X	X	X	X	X	X	
	7/26/2018	0725	seawater	B18-10133	21	X	X	X	X	X	X	X	X	X	X	extra volume for MS/MSD analysis
	7/26/2018	1040	seawater	B18-20133	13	X	X	X	X	X	X	X	X	X	X	
	7/27/2018	0800	seawater	B18-10136	13	X	X	X	X	X	X	X	X	X	X	
	7/27/2018	0705	seawater	B18-10137	13	X	X	X	X	X	X	X	X	X	X	
	7/27/2018	0850	seawater	B18-10139	13	X	X	X	X	X	X	X	X	X	X	
	7/27/2018	0950	seawater	B18-10140	13	X	X	X	X	X	X	X	X	X	X	
	7/27/2018	1225	seawater	B18-10141	13	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/27/18 1612	[signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS:	PHONE: 858-300-4316
9210 Sky Park Ct., Suite 200	FAX: 858-300-4301
San Diego, CA 92123	EMAIL: chris.stransky@woodplc.com; corey.sheredy@woodplc.com
PROJECT MANAGER	SAMPLER
Chris Stransky, Corey Sheredy	Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/27/2018	1100	seawater	B18-10142	13	X	X	X	X	X	X	X	X	X	X

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/27/18 1642	[signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-009

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/27/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 10	☐ BLUE ☐ WET ☐ DRY
Start 14:00 End 18:30 ☐ Other:	☐ Other :	☐ None 11.4 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

See Temperature

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-011

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/31/2018. A total of 6 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-011

2018 Regional Harbor Monitoring Program Total Samples: 6

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56736	B18-10034		7/30/2018	13:20	Seawater
56737	B18-10035		7/30/2018	12:30	Seawater
56738	B18-10036		7/30/2018	10:45	Seawater
56739	B18-10143		7/30/2018	7:25	Seawater
56740	B18-10144		7/30/2018	8:25	Seawater
56741	B18-10039		7/30/2018	9:45	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

POLYNUCLEAR AROMATIC HYDROCARBONS

2 One or more LMW surrogate and target analytes were below the specified acceptance limits as a result of increased loss of this compound during sample preparation due to compound volatility. All other surrogate and target analyte recoveries in the other QC and project samples were within acceptance limits and were therefore not affected.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56736-R1	**B18-10034**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**13:20**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0392	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.92	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.015	0.005	0.025	NA	J	C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.29	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0414	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.2	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18
Sample ID: 56737-R1	**B18-10035**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**12:30**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0678	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.54	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.021	0.005	0.025	NA	J	C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.07	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0399	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	8.8	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18
Sample ID: 56738-R1	**B18-10036**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**10:45**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0242	0.007	0.03	NA	J	C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.91	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.0415	0.005	0.025	NA		C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.27	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.044	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	7.7	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56739-R1	**B18-10143**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**7:25**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0578	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.5	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.0392	0.005	0.025	NA		C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.94	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0417	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	6.9	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18
Sample ID: 56740-R1	**B18-10144**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**8:25**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0487	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.44	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.0424	0.005	0.025	NA		C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.04	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0441	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.4	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18
Sample ID: 56741-R1	**B18-10039**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**9:45**	**Received: 31-Jul-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0452	0.007	0.03	NA		C-39035	20-Aug-18	20-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.53	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
MBAS	SM 5540 C	mg/L	0.0342	0.005	0.025	NA		C-38046	31-Jul-18	31-Jul-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38105	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.83	0.14	0.2	NA		O-16058	31-Jul-18	31-Jul-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0514	0.01	0.02	NA	1	C-38078	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	5.6	0.5	0.5	NA		C-40013	02-Aug-18	02-Aug-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56736-R1	**B18-10034**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**13:20**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	375	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0958	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.123	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.41	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.38	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.51	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0519	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0392	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.672	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.145	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0666	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.64	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.47	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	226	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.441	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.00378	0.0025	0.005	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.9	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.38	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.43	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.13	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.542	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.429	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0143	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0153	0.005	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0112	0.01	0.02	Total	J	E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00994	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00866	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0268	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00644	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	23.4	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	8.39	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.24	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.6	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	6.26	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.37	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56737-R1	**B18-10035**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**12:30**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	392	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	6.75	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.1	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.121	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.64	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.42	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	7.92	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	7.83	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0455	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0419	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.629	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.15	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0595	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.44	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.43	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	208	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.448	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.00417	0.0025	0.005	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.2	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.51	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.4	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.18	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.571	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.439	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0169	0.005	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00767	0.005	0.015	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0103	0.01	0.02	Total	J	E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0143	0.01	0.02	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0119	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00904	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.019	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00648	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	23.8	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.32	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.15	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.58	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	6.44	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.25	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56738-R1	**B18-10036**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**10:45**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	414	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.085	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.122	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.48	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.54	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.5	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.05	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00618	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.046	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.05	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.714	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.163	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0679	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.42	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.28	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	260	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.49	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	13.4	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.66	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	7.63	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.559	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.45	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00744	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0174	0.005	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0248	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0128	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00699	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0185	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	24.3	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.21	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.39	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.64	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	7.53	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.24	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56739-R1	**B18-10143**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**7:25**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	208	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0978	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.109	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.46	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.32	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.1	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0519	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0455	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.306	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0318	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.126	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0641	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.69	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.86	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	134	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.194	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.7	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.17	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.72	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.3	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.541	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.474	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0119	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0147	0.005	0.015	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0075	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00745	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0135	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00766	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	15.3	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	6.75	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.78	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.97	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.25	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56740-R1	**B18-10144**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**8:25**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 1640	µg/L	265	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.133	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.171	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.4	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.5	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0473	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0588	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.364	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.146	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0728	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.81	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.81	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	187	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.764	0.5	1	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.23	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	14.5	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	9.71	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.04	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.07	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.814	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.588	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0176	0.005	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0157	0.005	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0184	0.01	0.02	Total	J	E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0115	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00521	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0173	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0108	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	17.7	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	8.23	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.16	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.62	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.72	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.94	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56741-R1	**B18-10039**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**9:45**	**Received: 31-Jul-18**	
Aluminum (Al)	EPA 1640	µg/L	220	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0929	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.136	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.79	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	8.22	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.042	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0455	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.418	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.138	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0696	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.58	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	140	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.219	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.3	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.6	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15078	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15078	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.48	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.94	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.514	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.466	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0136	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.02	0.005	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0173	0.01	0.02	Total	J	E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0089	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00532	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0159	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00582	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	15.6	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.39	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.96	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	6.14	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.98	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56736-R1	**B18-10034**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**13:20**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	82			Total		O-20050	31-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	85			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	95			Total		O-20050	31-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20050	31-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	2.05	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.31	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	1.68	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.37	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56737-R1	**B18-10035**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**12:30**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	76			Total		O-20050	31-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	80			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	97			Total		O-20050	31-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	63			Total		O-20050	31-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	1.35	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	1.76	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.23	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	1.49	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.15	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56738-R1	**B18-10036**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**10:45**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	83			Total		O-20050	31-Jul-18	06-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	75			Total		O-20050	31-Jul-18	06-Sep-18
(d12-Perylene)	EPA 625	% Recovery	93			Total		O-20050	31-Jul-18	06-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	81			Total		O-20050	31-Jul-18	06-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Acenaphthene	EPA 625	ng/L	1.64	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Acenaphthylene	EPA 625	ng/L	1.18	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Fluoranthene	EPA 625	ng/L	1.69	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.41	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	06-Sep-18
Phenanthrene	EPA 625	ng/L	2.09	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18
Pyrene	EPA 625	ng/L	1.29	1	5	Total	J	O-20050	31-Jul-18	06-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56739-R1	**B18-10143**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**7:25**	**Received: 31-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	83			Total		O-20050	31-Jul-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	95			Total		O-20050	31-Jul-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	77			Total		O-20050	31-Jul-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	94			Total		O-20050	31-Jul-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	68			Total		O-20050	31-Jul-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	2.28	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	2.7	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	2.09	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.53	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56740-R1	**B18-10144**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**8:25**	**Received: 31-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	89			Total		O-20050	31-Jul-18	05-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	97			Total		O-20050	31-Jul-18	05-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	71			Total		O-20050	31-Jul-18	05-Sep-18
(d12-Perylene)	EPA 625	% Recovery	89			Total		O-20050	31-Jul-18	05-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	78			Total		O-20050	31-Jul-18	05-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.27	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18
Acenaphthene	EPA 625	ng/L	2.83	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Fluoranthene	EPA 625	ng/L	2.63	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.17	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Naphthalene	EPA 625	ng/L	1.28	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	05-Sep-18
Phenanthrene	EPA 625	ng/L	2.05	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18
Pyrene	EPA 625	ng/L	1.4	1	5	Total	J	O-20050	31-Jul-18	05-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56741-R1	**B18-10039**		**Matrix: Seawater**			**Sampled: 30-Jul-18**	**9:45**	**Received: 31-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	62			Total		O-20050	31-Jul-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20050	31-Jul-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	77			Total		O-20050	31-Jul-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	92			Total		O-20050	31-Jul-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	27			Total		O-20050	31-Jul-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.8	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	1.04	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	1.84	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Biphenyl	EPA 625	ng/L	1.04	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.79	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.16	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	31-Jul-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	2.71	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.14	1	5	Total	J	O-20050	31-Jul-18	07-Sep-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56736-R1	**B18-10034**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**13:20**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56737-R1	**B18-10035**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**12:30**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56738-R1	**B18-10036**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**10:45**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56739-R1	**B18-10143**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**7:25**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56740-R1	**B18-10144**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**8:25**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18
Sample ID: 56741-R1	**B18-10039**		**Matrix: Seawater**			**Sampled: 30-Jul-18**		**9:45**	**Received: 31-Jul-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19117	01-Aug-18	01-Aug-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 20-Aug-18**			**Analyzed: 20-Aug-18**			
56734-B1	QAQC Procedural Blank	C-39035	ND	0.007	0.03	mg/L									
56734-BS1	QAQC Procedural Blank	C-39035	0.0456	0.007	0.03	mg/L	0.05	0	91	62 - 157%	PASS				
56734-BS2	QAQC Procedural Blank	C-39035	0.0474	0.007	0.03	mg/L	0.05	0	95	62 - 157%	PASS	4	30	PASS	
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 31-Jul-18**			**Analyzed: 31-Jul-18**			
56734-B1	QAQC Procedural Blank	O-16058	ND	0.14	0.2	mg/L									
56734-BS1	QAQC Procedural Blank	O-16058	9.31	0.14	0.2	mg/L	10	0	93	67 - 114%	PASS				
56734-BS2	QAQC Procedural Blank	O-16058	9.41	0.14	0.2	mg/L	10	0	94	67 - 114%	PASS	1	30	PASS	
56740-MS1	B18-10144	O-16058	11.6	0.14	0.2	mg/L	10	1.3	103	50 - 150%	PASS				
56740-MS2	B18-10144	O-16058	12	0.14	0.2	mg/L	10	1.3	107	50 - 150%	PASS	4	30	PASS	
56740-R2	B18-10144	O-16058	1.15	0.14	0.2	mg/L						22	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**			**Prepared: 31-Jul-18**			**Analyzed: 31-Jul-18**			
56734-B1	QAQC Procedural Blank	C-38046	ND	0.005	0.025	mg/L									
56734-BS1	QAQC Procedural Blank	C-38046	0.0829	0.005	0.025	mg/L	0.1	0	83	15 - 152%	PASS				
56734-BS2	QAQC Procedural Blank	C-38046	0.0852	0.005	0.025	mg/L	0.1	0	85	15 - 152%	PASS	2	30	PASS	
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**			**Prepared: 10-Sep-18**			**Analyzed: 10-Sep-18**			
56734-B1	QAQC Procedural Blank	C-38105	ND	0.01	0.02	mg/L									
56734-BS1	QAQC Procedural Blank	C-38105	0.55	0.01	0.02	mg/L	0.5	0	110	68 - 135%	PASS				
56734-BS2	QAQC Procedural Blank	C-38105	0.524	0.01	0.02	mg/L	0.5	0	105	68 - 135%	PASS	5	30	PASS	
56740-MS1	B18-10144	C-38105	0.559	0.01	0.02	mg/L	0.5	0	112	36 - 176%	PASS				
56740-MS2	B18-10144	C-38105	0.57	0.01	0.02	mg/L	0.5	0	114	36 - 176%	PASS	2	30	PASS	
56740-R2	B18-10144	C-38105	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 31-Jul-18**			**Analyzed: 31-Jul-18**			
56734-B1	QAQC Procedural Blank	O-16058	ND	0.14	0.2	mg/L									
56734-BS1	QAQC Procedural Blank	O-16058	9.31	0.14	0.2	mg/L	10	0	93	63 - 133%	PASS				
56734-BS2	QAQC Procedural Blank	O-16058	9.41	0.14	0.2	mg/L	10	0	94	63 - 133%	PASS	1	30	PASS	
56740-MS1	B18-10144	O-16058	12	0.14	0.2	mg/L	10	1.9	101	50 - 150%	PASS				
56740-MS2	B18-10144	O-16058	12.2	0.14	0.2	mg/L	10	1.9	103	50 - 150%	PASS	2	30	PASS	
56740-R2	B18-10144	O-16058	1.75	0.14	0.2	mg/L						15	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Total Orthophosphate as P			**Method: SM 4500-P E**			**Fraction: NA**				**Prepared: 23-Aug-18**			**Analyzed: 23-Aug-18**		
56734-B1	QAQC Procedural Blank	C-38078	ND	0.01	0.02	mg/L									
56734-BS1	QAQC Procedural Blank	C-38078	0.194	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
56734-BS2	QAQC Procedural Blank	C-38078	0.202	0.01	0.02	mg/L	0.2	0	101	42 - 153%	PASS	4	30	PASS	
56740-MS1	B18-10144	C-38078	0.238	0.01	0.02	mg/L	0.2	0.0437	97	54 - 130%	PASS				
56740-MS2	B18-10144	C-38078	0.234	0.01	0.02	mg/L	0.2	0.0437	95	54 - 130%	PASS	2	30	PASS	
56740-R2	B18-10144	C-38078	0.0433	0.01	0.02	mg/L						2	30	PASS	1
Total Suspended Solids			**Method: SM 2540 D**			**Fraction: NA**				**Prepared: 02-Aug-18**			**Analyzed: 02-Aug-18**		
56734-B1	QAQC Procedural Blank	C-40013	ND	0.5	0.5	mg/L									
56740-R2	B18-10144	C-40013	5.5	0.5	0.5	mg/L						2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56734-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 05-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 56734-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.08	0.01	0.02	µg/L	1	0	108	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Total	100	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56734-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 245.7				Batch ID: E-15078			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS	3	30 PASS	
	Method: EPA 200.8				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 13-Dec-18	
Barium (Ba)	Total	99.7	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS	0	30 PASS	
Sample ID: 56735-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 05-Dec-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0726	0.01	0.015	µg/L								
Arsenic (As)	Total	1.86	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0991	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.146	0.0125	0.025	µg/L								
Cobalt (Co)	Total	0.00714	0.005	0.01	µg/L								
Copper (Cu)	Total	0.303	0.005	0.01	µg/L								
Iron (Fe)	Total	0.65	0.5	1	µg/L								
Lead (Pb)	Total	0.00939	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.0524	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.02	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.351	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0371	0.005	0.015	µg/L								
Silver (Ag)	Total	ND	0.01	0.02	µg/L								
Thallium (Tl)	Total	0.0111	0.005	0.01	µg/L								
Tin (Sn)	Total	0.00534	0.005	0.01	µg/L								
Titanium (Ti)	Total	5.33	0.035	0.07	µg/L								
Vanadium (V)	Total	1.94	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.322	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56735-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**			**Received:**		
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 05-Dec-18		
Aluminum (Al)	Total	23.4	3	6	µg/L	20	0	117	82 - 136%		PASS	
Antimony (Sb)	Total	1.61	0.01	0.015	µg/L	20	0.0726	8	0 - 57%		PASS	
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.86	106	64 - 133%		PASS	
Beryllium (Be)	Total	19.6	0.005	0.01	µg/L	20	0	98	64 - 112%		PASS	
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%		PASS	
Chromium (Cr)	Total	20	0.0125	0.025	µg/L	20	0.146	99	87 - 117%		PASS	
Cobalt (Co)	Total	18.8	0.005	0.01	µg/L	20	0.00714	94	79 - 112%		PASS	
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%		PASS	
Iron (Fe)	Total	14.9	0.5	1	µg/L	20	0.65	71	36 - 108%		PASS	
Lead (Pb)	Total	19.3	0.0025	0.005	µg/L	20	0.00939	96	77 - 110%		PASS	
Manganese (Mn)	Total	17	0.01	0.02	µg/L	20	0.0524	85	15 - 142%		PASS	
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%		PASS	
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.351	93	75 - 105%		PASS	
Selenium (Se)	Total	18.4	0.005	0.015	µg/L	20	0.0371	92	76 - 119%		PASS	
Silver (Ag)	Total	8.46	0.01	0.02	µg/L	10	0	85	61 - 113%		PASS	
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.0111	91	72 - 109%		PASS	
Tin (Sn)	Total	18.3	0.005	0.01	µg/L	20	0.00534	91	61 - 125%		PASS	
Titanium (Ti)	Total	26.7	0.035	0.07	µg/L	20	5.33	107	41 - 143%		PASS	
Vanadium (V)	Total	23.2	0.02	0.04	µg/L	20	1.94	106	81 - 127%		PASS	
Zinc (Zn)	Total	19.6	0.0025	0.005	µg/L	20	0.322	96	72 - 116%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56735-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18				Analyzed: 05-Dec-18		
Aluminum (Al)	Total	22.4	3	6	µg/L	20	0	112	82 - 136%	PASS	4	30	PASS
Antimony (Sb)	Total	1.52	0.01	0.015	µg/L	20	0.0726	7	0 - 57%	PASS	13	30	PASS
Arsenic (As)	Total	23.7	0.005	0.015	µg/L	20	1.86	109	64 - 133%	PASS	3	30	PASS
Beryllium (Be)	Total	19.7	0.005	0.01	µg/L	20	0	99	64 - 112%	PASS	0	30	PASS
Cadmium (Cd)	Total	18.9	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%	PASS	0	30	PASS
Chromium (Cr)	Total	19.9	0.0125	0.025	µg/L	20	0.146	99	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.00714	93	79 - 112%	PASS	1	30	PASS
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	15.1	0.5	1	µg/L	20	0.65	72	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	19.1	0.0025	0.005	µg/L	20	0.00939	95	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	18.7	0.01	0.02	µg/L	20	0.0524	93	15 - 142%	PASS	9	30	PASS
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%	PASS	0	30	PASS
Nickel (Ni)	Total	19.2	0.0025	0.005	µg/L	20	0.351	94	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	18.9	0.005	0.015	µg/L	20	0.0371	94	76 - 119%	PASS	2	30	PASS
Silver (Ag)	Total	8.9	0.01	0.02	µg/L	10	0	89	61 - 113%	PASS	5	30	PASS
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0.0111	93	72 - 109%	PASS	2	30	PASS
Tin (Sn)	Total	18.9	0.005	0.01	µg/L	20	0.00534	94	61 - 125%	PASS	3	30	PASS
Titanium (Ti)	Total	25.7	0.035	0.07	µg/L	20	5.33	102	41 - 143%	PASS	5	30	PASS
Vanadium (V)	Total	22.8	0.02	0.04	µg/L	20	1.94	104	81 - 127%	PASS	2	30	PASS
Zinc (Zn)	Total	18.7	0.0025	0.005	µg/L	20	0.322	92	72 - 116%	PASS	4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56740-MS1	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18**	**8:25**			**Received: 31-Jul-18**	
	Method: EPA 245.7				Batch ID: E-15078			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.19	0.01	0.02	µg/L	1	0	119	76 - 127%	PASS			
	Method: EPA 1640				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 05-Dec-18	
Aluminum (Al)	Total	311	3	6	µg/L	20	265	230	82 - 136%	FAIL			SH
Antimony (Sb)	Total	2.45	0.01	0.015	µg/L	20	0.143	12	0 - 57%	PASS			
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.53	107	64 - 133%	PASS			
Beryllium (Be)	Total	19.6	0.005	0.01	µg/L	20	0	98	64 - 112%	PASS			
Cadmium (Cd)	Total	17.6	0.0025	0.005	µg/L	20	0.0523	88	74 - 107%	PASS			
Chromium (Cr)	Total	20.3	0.0125	0.025	µg/L	20	0.38	100	87 - 117%	PASS			
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.138	92	79 - 112%	PASS			
Copper (Cu)	Total	22.5	0.005	0.01	µg/L	20	3.79	94	77 - 107%	PASS			
Iron (Fe)	Total	192	0.5	1	µg/L	20	185	35	36 - 108%	FAIL			M
Lead (Pb)	Total	19	0.0025	0.005	µg/L	20	0.226	94	77 - 110%	PASS			
Manganese (Mn)	Total	25.3	0.01	0.02	µg/L	20	14.3	55	15 - 142%	PASS			
Molybdenum (Mo)	Total	26.8	0.005	0.01	µg/L	20	9.03	89	78 - 108%	PASS			
Nickel (Ni)	Total	19.1	0.0025	0.005	µg/L	20	0.743	92	75 - 105%	PASS			
Selenium (Se)	Total	18.4	0.005	0.015	µg/L	20	0.0194	92	76 - 119%	PASS			
Silver (Ag)	Total	7.79	0.01	0.02	µg/L	10	0.0229	78	61 - 113%	PASS			
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0.00941	93	72 - 109%	PASS			
Tin (Sn)	Total	17.8	0.005	0.01	µg/L	20	0.0146	89	61 - 125%	PASS			
Titanium (Ti)	Total	38.9	0.035	0.07	µg/L	20	18	105	41 - 143%	PASS			
Vanadium (V)	Total	23.7	0.02	0.04	µg/L	20	3.13	103	81 - 127%	PASS			
Zinc (Zn)	Total	24.5	0.0025	0.005	µg/L	20	5.64	94	72 - 116%	PASS			
	Method: EPA 200.8				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 13-Dec-18	
Barium (Ba)	Total	123	0.25	0.5	µg/L	100	11.5	112	90 - 120%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56740-MS2	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18**	**8:25**			**Received: 31-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15078			Prepared: 03-Sep-18				Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.2	0.01	0.02	µg/L	1	0	120	76 - 127%	PASS	1	30	PASS	
	Method: EPA 1640				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 05-Dec-18		
Aluminum (Al)	Total	296	3	6	µg/L	20	265	155	82 - 136%	FAIL	39	30	FAIL	SH
Antimony (Sb)	Total	2.25	0.01	0.015	µg/L	20	0.143	11	0 - 57%	PASS	9	30	PASS	
Arsenic (As)	Total	22.1	0.005	0.015	µg/L	20	1.53	103	64 - 133%	PASS	4	30	PASS	
Beryllium (Be)	Total	19.3	0.005	0.01	µg/L	20	0	96	64 - 112%	PASS	2	30	PASS	
Cadmium (Cd)	Total	17.8	0.0025	0.005	µg/L	20	0.0523	89	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20	0.0125	0.025	µg/L	20	0.38	98	87 - 117%	PASS	2	30	PASS	
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.138	92	79 - 112%	PASS	0	30	PASS	
Copper (Cu)	Total	23	0.005	0.01	µg/L	20	3.79	96	77 - 107%	PASS	2	30	PASS	
Iron (Fe)	Total	183	0.5	1	µg/L	20	185	-10	36 - 108%	FAIL	360	30	FAIL	M
Lead (Pb)	Total	19.1	0.0025	0.005	µg/L	20	0.226	94	77 - 110%	PASS	0	30	PASS	
Manganese (Mn)	Total	22.7	0.01	0.02	µg/L	20	14.3	42	15 - 142%	PASS	27	30	PASS	
Molybdenum (Mo)	Total	27.1	0.005	0.01	µg/L	20	9.03	90	78 - 108%	PASS	1	30	PASS	
Nickel (Ni)	Total	18.9	0.0025	0.005	µg/L	20	0.743	91	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	18.1	0.005	0.015	µg/L	20	0.0194	90	76 - 119%	PASS	2	30	PASS	
Silver (Ag)	Total	5.73	0.01	0.02	µg/L	10	0.0229	57	61 - 113%	FAIL	31	30	FAIL	M
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0.00941	93	72 - 109%	PASS	0	30	PASS	
Tin (Sn)	Total	17.8	0.005	0.01	µg/L	20	0.0146	89	61 - 125%	PASS	0	30	PASS	
Titanium (Ti)	Total	37.5	0.035	0.07	µg/L	20	18	98	41 - 143%	PASS	7	30	PASS	
Vanadium (V)	Total	23.5	0.02	0.04	µg/L	20	3.13	102	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	24.3	0.0025	0.005	µg/L	20	5.64	93	72 - 116%	PASS	1	30	PASS	
	Method: EPA 200.8				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 13-Dec-18		
Barium (Ba)	Total	120	0.25	0.5	µg/L	100	11.5	109	90 - 120%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56740-R2	**B18-10144**				**Matrix: Seawater**		**Sampled: 30-Jul-18 8:25**			**Received: 31-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15078		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 05-Dec-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	266	3	6	µg/L					0	30 PASS	
Antimony (Sb)	Dissolved	0.147	0.01	0.015	µg/L					15	30 PASS	
Antimony (Sb)	Total	0.153	0.01	0.015	µg/L					14	30 PASS	
Arsenic (As)	Dissolved	1.64	0.005	0.015	µg/L					16	30 PASS	
Arsenic (As)	Total	1.55	0.005	0.015	µg/L					3	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					0	30 PASS	
Beryllium (Be)	Total	ND	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.0795	0.0025	0.005	µg/L					30	30 PASS	
Cadmium (Cd)	Total	0.0573	0.0025	0.005	µg/L					19	30 PASS	
Chromium (Cr)	Dissolved	ND	0.0125	0.025	µg/L					0	30 PASS	
Chromium (Cr)	Total	0.397	0.0125	0.025	µg/L					9	30 PASS	
Cobalt (Co)	Dissolved	0.0656	0.005	0.01	µg/L					10	30 PASS	
Cobalt (Co)	Total	0.13	0.005	0.01	µg/L					12	30 PASS	
Copper (Cu)	Dissolved	3.3	0.005	0.01	µg/L					16	30 PASS	
Copper (Cu)	Total	3.77	0.005	0.01	µg/L					1	30 PASS	
Iron (Fe)	Dissolved	0.706	0.5	1	µg/L					8	30 PASS	J
Iron (Fe)	Total	183	0.5	1	µg/L					2	30 PASS	
Lead (Pb)	Dissolved	ND	0.0025	0.005	µg/L					0	30 PASS	
Lead (Pb)	Total	0.223	0.0025	0.005	µg/L					3	30 PASS	
Manganese (Mn)	Dissolved	9.5	0.01	0.02	µg/L					2	30 PASS	
Manganese (Mn)	Total	14.1	0.01	0.02	µg/L					3	30 PASS	
Molybdenum (Mo)	Dissolved	9.38	0.005	0.01	µg/L					3	30 PASS	
Molybdenum (Mo)	Total	9.01	0.005	0.01	µg/L					0	30 PASS	
Nickel (Ni)	Dissolved	0.638	0.0025	0.005	µg/L					8	30 PASS	
Nickel (Ni)	Total	0.671	0.0025	0.005	µg/L					19	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	0.0416	0.005	0.015	µg/L					90	30	FAIL	SL
Selenium (Se)	Total	0.0211	0.005	0.015	µg/L					18	30	PASS	
Silver (Ag)	Dissolved	ND	0.01	0.02	µg/L					0	30	PASS	
Silver (Ag)	Total	0.0274	0.01	0.02	µg/L					39	30	FAIL	SL
Thallium (Tl)	Dissolved	0.00642	0.005	0.01	µg/L					21	30	PASS	J
Thallium (Tl)	Total	0.00732	0.005	0.01	µg/L					44	30	FAIL	J,SL
Tin (Sn)	Dissolved	0.077	0.005	0.01	µg/L					151	30	FAIL	SL
Tin (Sn)	Total	0.0119	0.005	0.01	µg/L					37	30	FAIL	SL
Titanium (Ti)	Dissolved	8.12	0.035	0.07	µg/L					1	30	PASS	
Titanium (Ti)	Total	18.3	0.035	0.07	µg/L					3	30	PASS	
Vanadium (V)	Dissolved	2.58	0.02	0.04	µg/L					2	30	PASS	
Vanadium (V)	Total	3.11	0.02	0.04	µg/L					2	30	PASS	
Zinc (Zn)	Dissolved	4.2	0.0025	0.005	µg/L					6	30	PASS	
Zinc (Zn)	Total	5.56	0.0025	0.005	µg/L					3	30	PASS	
	Method: EPA 200.8				Batch ID: E-16123			Prepared: 02-Nov-18			Analyzed: 13-Dec-18		
Barium (Ba)	Dissolved	10.6	0.25	0.5	µg/L					1	30	PASS	
Barium (Ba)	Total	11.9	0.25	0.5	µg/L					8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56734-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18				Analyzed: 05-Sep-18	
(d10-Acenaphthene)	Total	86			% Recovery	100	86	65 - 113%	PASS			
(d10-Phenanthrene)	Total	95			% Recovery	100	95	80 - 111%	PASS			
(d12-Chrysene)	Total	76			% Recovery	100	76	60 - 139%	PASS			
(d12-Perylene)	Total	73			% Recovery	100	73	36 - 161%	PASS			
(d8-Naphthalene)	Total	81			% Recovery	100	81	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56734-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	91			% Recovery	100	0	91	65 - 113%	PASS		
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	80 - 111%	PASS		
(d12-Chrysene)	Total	82			% Recovery	100	0	82	60 - 139%	PASS		
(d12-Perylene)	Total	94			% Recovery	100	0	94	36 - 161%	PASS		
(d8-Naphthalene)	Total	66			% Recovery	100	0	66	44 - 119%	PASS		
1-Methylnaphthalene	Total	371	1	5	ng/L	500	0	74	49 - 117%	PASS		
1-Methylphenanthrene	Total	522	1	5	ng/L	500	0	104	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	576	1	5	ng/L	500	0	115	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	465	1	5	ng/L	500	0	93	54 - 117%	PASS		
2-Methylnaphthalene	Total	391	1	5	ng/L	500	0	78	47 - 130%	PASS		
Acenaphthene	Total	477	1	5	ng/L	500	0	95	53 - 131%	PASS		
Acenaphthylene	Total	442	1	5	ng/L	500	0	88	43 - 140%	PASS		
Anthracene	Total	419	1	5	ng/L	500	0	84	58 - 135%	PASS		
Benz[a]anthracene	Total	434	1	5	ng/L	500	0	87	55 - 145%	PASS		
Benzo[a]pyrene	Total	453	1	5	ng/L	500	0	91	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	619	1	5	ng/L	500	0	124	46 - 165%	PASS		
Benzo[e]pyrene	Total	594	1	5	ng/L	500	0	119	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	462	1	5	ng/L	500	0	92	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	572	1	5	ng/L	500	0	114	56 - 145%	PASS		
Biphenyl	Total	469	1	5	ng/L	500	0	94	56 - 119%	PASS		
Chrysene	Total	404	1	5	ng/L	500	0	81	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	407	1	5	ng/L	500	0	81	55 - 150%	PASS		
Dibenzothiophene	Total	516	1	5	ng/L	500	0	103	75 - 113%	PASS		
Fluoranthene	Total	525	1	5	ng/L	500	0	105	60 - 146%	PASS		
Fluorene	Total	507	1	5	ng/L	500	0	101	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	438	1	5	ng/L	500	0	88	50 - 151%	PASS		
Naphthalene	Total	335	1	5	ng/L	500	0	67	41 - 126%	PASS		
Perylene	Total	479	1	5	ng/L	500	0	96	48 - 141%	PASS		
Phenanthrene	Total	491	1	5	ng/L	500	0	98	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	534	1	5	ng/L	500	0	107	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56734-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18				Analyzed: 05-Sep-18			
(d10-Acenaphthene)	Total	72			% Recovery	100	0	72	65 - 113%	PASS	23	30	PASS	
(d10-Phenanthrene)	Total	93			% Recovery	100	0	93	80 - 111%	PASS	2	30	PASS	
(d12-Chrysene)	Total	81			% Recovery	100	0	81	60 - 139%	PASS	1	30	PASS	
(d12-Perylene)	Total	90			% Recovery	100	0	90	36 - 161%	PASS	4	30	PASS	
(d8-Naphthalene)	Total	32			% Recovery	100	0	32	44 - 119%	FAIL	69	30	FAIL	2
1-Methylnaphthalene	Total	215	1	5	ng/L	500	0	43	49 - 117%	FAIL	53	30	FAIL	2
1-Methylphenanthrene	Total	509	1	5	ng/L	500	0	102	66 - 127%	PASS	2	30	PASS	
2,3,5-Trimethylnaphthalene	Total	511	1	5	ng/L	500	0	102	57 - 120%	PASS	12	30	PASS	
2,6-Dimethylnaphthalene	Total	343	1	5	ng/L	500	0	69	54 - 117%	PASS	30	30	PASS	
2-Methylnaphthalene	Total	225	1	5	ng/L	500	0	45	47 - 130%	FAIL	54	30	FAIL	2
Acenaphthene	Total	372	1	5	ng/L	500	0	74	53 - 131%	PASS	25	30	PASS	
Acenaphthylene	Total	347	1	5	ng/L	500	0	69	43 - 140%	PASS	24	30	PASS	
Anthracene	Total	413	1	5	ng/L	500	0	83	58 - 135%	PASS	1	30	PASS	
Benz[a]anthracene	Total	435	1	5	ng/L	500	0	87	55 - 145%	PASS	0	30	PASS	
Benzo[a]pyrene	Total	446	1	5	ng/L	500	0	89	51 - 143%	PASS	2	30	PASS	
Benzo[b]fluoranthene	Total	622	1	5	ng/L	500	0	124	46 - 165%	PASS	0	30	PASS	
Benzo[e]pyrene	Total	596	1	5	ng/L	500	0	119	42 - 152%	PASS	0	30	PASS	
Benzo[g,h,i]perylene	Total	456	1	5	ng/L	500	0	91	63 - 133%	PASS	1	30	PASS	
Benzo[k]fluoranthene	Total	573	1	5	ng/L	500	0	115	56 - 145%	PASS	1	30	PASS	
Biphenyl	Total	341	1	5	ng/L	500	0	68	56 - 119%	PASS	32	30	FAIL	2
Chrysene	Total	408	1	5	ng/L	500	0	82	56 - 141%	PASS	1	30	PASS	
Dibenz[a,h]anthracene	Total	383	1	5	ng/L	500	0	77	55 - 150%	PASS	5	30	PASS	
Dibenzothiophene	Total	503	1	5	ng/L	500	0	101	75 - 113%	PASS	2	30	PASS	
Fluoranthene	Total	506	1	5	ng/L	500	0	101	60 - 146%	PASS	4	30	PASS	
Fluorene	Total	457	1	5	ng/L	500	0	91	58 - 131%	PASS	10	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	436	1	5	ng/L	500	0	87	50 - 151%	PASS	1	30	PASS	
Naphthalene	Total	155	1	5	ng/L	500	0	31	41 - 126%	FAIL	73	30	FAIL	2
Perylene	Total	457	1	5	ng/L	500	0	91	48 - 141%	PASS	5	30	PASS	
Phenanthrene	Total	485	1	5	ng/L	500	0	97	67 - 127%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	518	1	5	ng/L	500	0	104	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56740-MS1	**B18-10144**				**Matrix: Seawater**		**Sampled: 30-Jul-18**	**8:25**		**Received: 31-Jul-18**		
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	86			% Recovery	100	0	86	45 - 118%			PASS
(d10-Phenanthrene)	Total	92			% Recovery	100	0	92	56 - 123%			PASS
(d12-Chrysene)	Total	77			% Recovery	100	0	77	36 - 142%			PASS
(d12-Perylene)	Total	90			% Recovery	100	0	90	36 - 161%			PASS
(d8-Naphthalene)	Total	85			% Recovery	100	0	85	20 - 112%			PASS
1-Methylnaphthalene	Total	469	1	5	ng/L	581	0	81	39 - 104%			PASS
1-Methylphenanthrene	Total	562	1	5	ng/L	581	0	97	62 - 136%			PASS
2,3,5-Trimethylnaphthalene	Total	618	1	5	ng/L	581	0	106	47 - 132%			PASS
2,6-Dimethylnaphthalene	Total	515	1	5	ng/L	581	0	89	37 - 118%			PASS
2-Methylnaphthalene	Total	506	1	5	ng/L	581	0.637	87	33 - 113%			PASS
Acenaphthene	Total	522	1	5	ng/L	581	2.83	89	51 - 116%			PASS
Acenaphthylene	Total	484	1	5	ng/L	581	0	83	53 - 127%			PASS
Anthracene	Total	479	1	5	ng/L	581	0	82	60 - 126%			PASS
Benz[a]anthracene	Total	478	1	5	ng/L	581	0	82	51 - 165%			PASS
Benzo[a]pyrene	Total	503	1	5	ng/L	581	0	87	24 - 170%			PASS
Benzo[b]fluoranthene	Total	632	1	5	ng/L	581	0	109	38 - 158%			PASS
Benzo[e]pyrene	Total	672	1	5	ng/L	581	0	116	26 - 157%			PASS
Benzo[g,h,i]perylene	Total	543	1	5	ng/L	581	0	93	57 - 133%			PASS
Benzo[k]fluoranthene	Total	612	1	5	ng/L	581	0	105	27 - 167%			PASS
Biphenyl	Total	530	1	5	ng/L	581	0	91	41 - 111%			PASS
Chrysene	Total	444	1	5	ng/L	581	0	76	58 - 136%			PASS
Dibenz[a,h]anthracene	Total	447	1	5	ng/L	581	0	77	53 - 156%			PASS
Dibenzothiophene	Total	577	1	5	ng/L	581	0	99	69 - 112%			PASS
Fluoranthene	Total	562	1	5	ng/L	581	2.82	96	61 - 147%			PASS
Fluorene	Total	545	1	5	ng/L	581	2.02	93	62 - 120%			PASS
Indeno[1,2,3-cd]pyrene	Total	493	1	5	ng/L	581	0	85	58 - 147%			PASS
Naphthalene	Total	500	1	5	ng/L	581	0.638	86	22 - 110%			PASS
Perylene	Total	520	1	5	ng/L	581	0	90	34 - 147%			PASS
Phenanthrene	Total	551	1	5	ng/L	581	2.25	94	64 - 121%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	570	1	5	ng/L	581	1.5	98	65 - 146%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56740-MS2	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18**	**8:25**		**Received: 31-Jul-18**		
	Method: EPA 625				Batch ID: O-20050			Prepared: 31-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	86			% Recovery	100	0	86	45 - 118%	PASS	0	30	PASS
(d10-Phenanthrene)	Total	93			% Recovery	100	0	93	56 - 123%	PASS	1	30	PASS
(d12-Chrysene)	Total	79			% Recovery	100	0	79	36 - 142%	PASS	3	30	PASS
(d12-Perylene)	Total	87			% Recovery	100	0	87	36 - 161%	PASS	3	30	PASS
(d8-Naphthalene)	Total	74			% Recovery	100	0	74	20 - 112%	PASS	14	30	PASS
1-Methylnaphthalene	Total	439	1	5	ng/L	581	0	76	39 - 104%	PASS	6	30	PASS
1-Methylphenanthrene	Total	575	1	5	ng/L	581	0	99	62 - 136%	PASS	2	30	PASS
2,3,5-Trimethylnaphthalene	Total	623	1	5	ng/L	581	0	107	47 - 132%	PASS	1	30	PASS
2,6-Dimethylnaphthalene	Total	515	1	5	ng/L	581	0	89	37 - 118%	PASS	0	30	PASS
2-Methylnaphthalene	Total	471	1	5	ng/L	581	0.637	81	33 - 113%	PASS	7	30	PASS
Acenaphthene	Total	518	1	5	ng/L	581	2.83	89	51 - 116%	PASS	0	30	PASS
Acenaphthylene	Total	489	1	5	ng/L	581	0	84	53 - 127%	PASS	1	30	PASS
Anthracene	Total	474	1	5	ng/L	581	0	82	60 - 126%	PASS	0	30	PASS
Benz[a]anthracene	Total	480	1	5	ng/L	581	0	83	51 - 165%	PASS	1	30	PASS
Benzo[a]pyrene	Total	506	1	5	ng/L	581	0	87	24 - 170%	PASS	0	30	PASS
Benzo[b]fluoranthene	Total	711	1	5	ng/L	581	0	122	38 - 158%	PASS	11	30	PASS
Benzo[e]pyrene	Total	689	1	5	ng/L	581	0	119	26 - 157%	PASS	3	30	PASS
Benzo[g,h,i]perylene	Total	526	1	5	ng/L	581	0	91	57 - 133%	PASS	2	30	PASS
Benzo[k]fluoranthene	Total	662	1	5	ng/L	581	0	114	27 - 167%	PASS	8	30	PASS
Biphenyl	Total	524	1	5	ng/L	581	0	90	41 - 111%	PASS	1	30	PASS
Chrysene	Total	455	1	5	ng/L	581	0	78	58 - 136%	PASS	3	30	PASS
Dibenz[a,h]anthracene	Total	460	1	5	ng/L	581	0	79	53 - 156%	PASS	3	30	PASS
Dibenzothiophene	Total	584	1	5	ng/L	581	0	101	69 - 112%	PASS	2	30	PASS
Fluoranthene	Total	583	1	5	ng/L	581	2.82	100	61 - 147%	PASS	4	30	PASS
Fluorene	Total	552	1	5	ng/L	581	2.02	95	62 - 120%	PASS	2	30	PASS
Indeno[1,2,3-cd]pyrene	Total	498	1	5	ng/L	581	0	86	58 - 147%	PASS	1	30	PASS
Naphthalene	Total	432	1	5	ng/L	581	0.638	74	22 - 110%	PASS	15	30	PASS
Perylene	Total	506	1	5	ng/L	581	0	87	34 - 147%	PASS	3	30	PASS
Phenanthrene	Total	563	1	5	ng/L	581	2.25	97	64 - 121%	PASS	3	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	599	1	5	ng/L	581	1.5	103	65 - 146%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56740-R2	**B18-10144**				**Matrix: Seawater**		**Sampled: 30-Jul-18 8:25**				**Received: 31-Jul-18**			
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18				Analyzed: 06-Sep-18			
(d10-Acenaphthene)	Total	85			% Recovery	100	85	45 - 118%	PASS		5	30	PASS	
(d10-Phenanthrene)	Total	95			% Recovery	100	95	56 - 123%	PASS		2	30	PASS	
(d12-Chrysene)	Total	82			% Recovery	100	82	36 - 142%	PASS		14	30	PASS	
(d12-Perylene)	Total	88			% Recovery	100	88	36 - 161%	PASS		1	30	PASS	
(d8-Naphthalene)	Total	86			% Recovery	100	86	20 - 112%	PASS		10	30	PASS	
1-Methylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
1-Methylphenanthrene	Total	ND	1	5	ng/L						0	30	PASS	
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L						0	30	PASS	
2-Methylnaphthalene	Total	ND	1	5	ng/L						24	30	PASS	
Acenaphthene	Total	2.84	1	5	ng/L						0	30	PASS	J
Acenaphthylene	Total	ND	1	5	ng/L						0	30	PASS	
Anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benz[a]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[a]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[b]fluoranthene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[e]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L						0	30	PASS	
Benzo[k]fluoranthene	Total	ND	1	5	ng/L						0	30	PASS	
Biphenyl	Total	ND	1	5	ng/L						0	30	PASS	
Chrysene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L						0	30	PASS	
Dibenzothiophene	Total	ND	1	5	ng/L						0	30	PASS	
Fluoranthene	Total	3.02	1	5	ng/L						14	30	PASS	J
Fluorene	Total	1.87	1	5	ng/L						15	30	PASS	J
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L						0	30	PASS	
Naphthalene	Total	ND	1	5	ng/L						25	30	PASS	
Perylene	Total	ND	1	5	ng/L						0	30	PASS	
Phenanthrene	Total	2.45	1	5	ng/L						18	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	1.59	1	5	ng/L					13	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56734-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	ND	1	1	mg/L								
Sample ID: 56734-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	41.9	1	1	mg/L	40	0	105	70 - 110%	PASS			
Sample ID: 56734-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	39	1	1	mg/L	40	0	98	70 - 110%	PASS	7	30 PASS	
Sample ID: 56740-MS1	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18 8:25**				**Received: 31-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	41.3	1	1	mg/L	40	0	103	67 - 110%	PASS			
Sample ID: 56740-MS2	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18 8:25**				**Received: 31-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	43.8	1	1	mg/L	40	0	110	67 - 110%	PASS	7	30 PASS	
Sample ID: 56740-R2	**B18-10144**				**Matrix: Seawater**			**Sampled: 30-Jul-18 8:25**				**Received: 31-Jul-18**	
	Method: EPA 1664B				Batch ID: C-19117			Prepared: 01-Aug-18				Analyzed: 01-Aug-18	
Oil & Grease	NA	ND	1	1	mg/L						0	30 PASS	

CHAIN OF CUSTODY

1807003-011

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)	
	7/30/2018	1320	seawater	B18-10034	13	X	X	X	X	X	X	X	X	X	X	
	7/30/2018	1230	seawater	B18-10035	13	X	X	X	X	X	X	X	X	X	X	
	7/30/2018	1045	seawater	B18-10036	13	X	X	X	X	X	X	X	X	X	X	
	7/30/2018	0725	seawater	B18-10143	13	X	X	X	X	X	X	X	X	X	X	
	7/30/2018	0825	seawater	B18-10144	21	X	X	X	X	X	X	X	X	X	X	extra volume for MS/MSD analysis
	7/30/2018	0945	seawater	B18-10039	13	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Marin Sandin	07/31/18 0905	
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625
Total Suspended Solids (TSS)	EPA 2540D

Notes:

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-011

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/31/2018 Received By: BB Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 7	☐ BLUE ☑ WET ☐ DRY
Start 7:00 End 11:00 ☐ Other:	☐ Other :	☐ None 5.9 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-013

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/2/2018. A total of 11 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-013

2018 Regional Harbor Monitoring Program Total Samples: 11

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56794	B18-10037		7/31/2018	10:20	Seawater
56795	B18-10038		7/31/2018	11:10	Seawater
56796	B18-10041		7/31/2018	12:35	Seawater
56797	B18-10179		7/31/2018	9:30	Seawater
56798	B18-10180		7/31/2018	8:30	Seawater
56799	B18-10181		7/31/2018	7:40	Seawater
56800	B18-10042		8/1/2018	12:05	Seawater
56801	B18-10085		8/1/2018	7:40	Seawater
56802	B18-10086		8/1/2018	8:30	Seawater
56803	B18-10087		8/1/2018	10:30	Seawater
56804	B18-10088		8/1/2018	9:12	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

POLYNUCLEAR AROMATIC HYDROCARBONS

2 One or more LMW surrogate and target analytes were below the specified acceptance limits as a result of increased loss of this compound during sample preparation due to compound volatility. All other surrogate and target analyte recoveries in the other QC and project samples were within acceptance limits and were therefore not affected.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56794-R1	**B18-10037**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**10:20**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.013	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.51	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0189	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.24	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0409	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	11.3	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56795-R1	**B18-10038**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**11:10**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.018	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.04	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0212	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.88	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0319	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	23.6	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56796-R1	**B18-10041**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**12:35**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.25	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0195	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.27	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0327	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	12	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56797-R1	**B18-10179**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**9:30**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0139	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.86	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0156	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.05	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0409	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	18.4	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56798-R1	**B18-10180**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**8:30**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0204	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.08	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.024	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.19	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0401	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	13.7	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56799-R1	**B18-10181**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**7:40**	**Received: 02-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0275	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.95	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0201	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.26	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0409	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	15.4	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56800-R1	**B18-10042**			**Matrix: Seawater**		**Sampled: 01-Aug-18**	**12:05**		**Received: 02-Aug-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0253	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.28	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0217	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.89	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0357	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	11.4	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56801-R1	**B18-10085**			**Matrix: Seawater**		**Sampled: 01-Aug-18**	**7:40**		**Received: 02-Aug-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.018	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.07	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0228	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0255	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.2	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0483	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	22.1	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56802-R1	**B18-10086**			**Matrix: Seawater**		**Sampled: 01-Aug-18**	**8:30**		**Received: 02-Aug-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.016	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.63	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0189	0.005	0.025	NA	J	C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	0.0122	0.01	0.02	NA	J,1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.76	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0474	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	15.9	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56803-R1	**B18-10087**			**Matrix: Seawater**		**Sampled: 01-Aug-18**	**10:30**		**Received: 02-Aug-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.019	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.24	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0401	0.005	0.025	NA		C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.64	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.036	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	14.5	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18
Sample ID: 56804-R1	**B18-10088**			**Matrix: Seawater**		**Sampled: 01-Aug-18**	**9:12**		**Received: 02-Aug-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0123	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.99	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
MBAS	SM 5540 C	mg/L	0.0418	0.005	0.025	NA		C-38056	02-Aug-18	02-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.98	0.14	0.2	NA		O-16060	02-Aug-18	02-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0422	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	13.6	0.5	0.5	NA		C-40012	03-Aug-18	03-Aug-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56794-R1	**B18-10037**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**10:20**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	116	3	6	Total		E-16123	02-Nov-18	05-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16123	02-Nov-18	05-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.112	0.01	0.015	Total		E-16123	02-Nov-18	06-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.149	0.01	0.015	Dissolved		E-16123	02-Nov-18	06-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.55	0.005	0.015	Total		E-16123	02-Nov-18	05-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.5	0.005	0.015	Dissolved		E-16123	02-Nov-18	05-Dec-18
Barium (Ba)	EPA 200.8	µg/L	13.3	0.25	0.5	Total		E-16123	02-Nov-18	13-Dec-18
Barium (Ba)	EPA 200.8	µg/L	12.9	0.25	0.5	Dissolved		E-16123	02-Nov-18	13-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0516	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0391	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.138	0.0125	0.025	Total		E-16123	02-Nov-18	05-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.1	0.005	0.01	Total		E-16123	02-Nov-18	05-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.072	0.005	0.01	Dissolved		E-16123	02-Nov-18	05-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.55	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.37	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	71.9	0.5	1	Total		E-16123	02-Nov-18	06-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.148	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.5	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Manganese (Mn)	EPA 1640	µg/L	13.2	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.93	0.005	0.01	Total		E-16123	02-Nov-18	06-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.66	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.51	0.0025	0.005	Total		E-16123	02-Nov-18	06-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.463	0.0025	0.005	Dissolved		E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00702	0.005	0.015	Total	J	E-16123	02-Nov-18	06-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0149	0.005	0.015	Dissolved	J	E-16123	02-Nov-18	06-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0628	0.01	0.02	Total		E-16123	02-Nov-18	05-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0832	0.01	0.02	Dissolved		E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00705	0.005	0.01	Total	J	E-16123	02-Nov-18	05-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00562	0.005	0.01	Dissolved	J	E-16123	02-Nov-18	05-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00897	0.005	0.01	Total	J	E-16123	02-Nov-18	06-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16123	02-Nov-18	06-Dec-18
Titanium (Ti)	EPA 1640	µg/L	13	0.035	0.07	Total		E-16123	02-Nov-18	05-Dec-18
Titanium (Ti)	EPA 1640	µg/L	5.38	0.035	0.07	Dissolved		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.93	0.02	0.04	Total		E-16123	02-Nov-18	05-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.68	0.02	0.04	Dissolved		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	7.44	0.0025	0.005	Total		E-16123	02-Nov-18	05-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.76	0.0025	0.005	Dissolved		E-16123	02-Nov-18	05-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56795-R1	**B18-10038**			**Matrix: Seawater**		**Sampled: 31-Jul-18**		**11:10**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	207	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.134	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.149	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.44	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.52	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.2	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	9.07	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0196	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0105	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0526	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0542	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.396	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0258	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.127	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0788	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.26	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.38	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	145	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.238	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11.6	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	8.94	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.92	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.41	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.557	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.473	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00658	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0962	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0521	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0125	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.013	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0344	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00875	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	16.7	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.13	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.74	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.49	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.04	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.48	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56796-R1	**B18-10041**			**Matrix: Seawater**		**Sampled: 31-Jul-18**		**12:35**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	67.9	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.104	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.125	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.58	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.61	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	12.8	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.4	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0615	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.11	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0404	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0466	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.123	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0639	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0483	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.56	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.45	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	37.3	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.563	0.5	1	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0215	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	13	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	12.1	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.07	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.43	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.383	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.406	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00763	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.084	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0479	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0139	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0104	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00568	0.005	0.01	Total	J	E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00543	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	12.2	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	6.52	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.6	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.55	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.9	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.21	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56797-R1	**B18-10179**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**9:30**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	105	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.107	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.57	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.81	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	26.8	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	24	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0111	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0223	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0485	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0572	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.155	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0397	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0993	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0939	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.15	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.93	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	53.6	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.528	0.5	1	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.081	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	22.8	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	22.1	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.27	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.38	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.455	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.4	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00756	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0104	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.101	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.112	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0123	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0123	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	12.4	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	9.74	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.16	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.42	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	7.45	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	6.64	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56798-R1	**B18-10180**			**Matrix: Seawater**		**Sampled: 31-Jul-18**		**8:30**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	114	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.102	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.48	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	16.4	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	16.8	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0341	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.047	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0465	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.17	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0137	0.0125	0.025	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0919	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0797	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.75	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.63	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	59.3	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0963	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	17.7	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.7	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.89	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.45	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.434	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.445	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00762	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0786	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0756	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0113	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0126	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	11.7	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.31	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.74	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.61	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.64	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.93	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56799-R1	**B18-10181**		**Matrix: Seawater**			**Sampled: 31-Jul-18**	**7:40**	**Received: 02-Aug-18**		
Aluminum (Al)	EPA 1640	µg/L	93.3	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.109	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.132	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.57	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.58	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	16.9	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	20	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00953	0.005	0.01	Total	J	E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00985	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0551	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0527	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.114	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0976	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0803	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.79	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.92	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	52.4	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.587	0.5	1	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0873	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	19.9	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	18.1	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.35	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.55	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.441	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.4	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0112	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.01	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.086	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0654	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00971	0.005	0.01	Total	J	E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0108	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00628	0.005	0.01	Total	J	E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	10.9	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	9.75	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.76	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.72	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.63	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.19	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56800-R1	**B18-10042**			**Matrix: Seawater**		**Sampled: 01-Aug-18**		**12:05**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	111	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.107	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.105	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.45	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.6	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	12.3	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	12.1	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00935	0.005	0.01	Total	J	E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0483	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0568	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.155	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0902	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0899	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.97	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.37	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	59.7	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.761	0.5	1	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0538	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.1	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	13.8	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.11	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.41	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.441	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.438	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0119	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00724	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0762	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0662	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.013	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0123	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00746	0.005	0.01	Total	J	E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00672	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	11.7	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.12	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.69	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.52	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.05	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.58	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56801-R1	**B18-10085**		**Matrix: Seawater**			**Sampled: 01-Aug-18**	**7:40**	**Received: 02-Aug-18**		
Aluminum (Al)	EPA 1640	µg/L	288	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0855	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.123	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.68	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.49	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11.5	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	14.1	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0171	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.00926	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0554	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0544	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.412	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.156	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.113	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	8.84	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	4.54	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	152	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.313	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	23	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	19.1	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.36	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.54	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.509	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.438	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0111	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00807	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0819	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0794	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0111	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00952	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0238	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00967	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	20.9	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.33	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.32	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.77	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	12.5	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	11.2	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56802-R1	**B18-10086**			**Matrix: Seawater**		**Sampled: 01-Aug-18**		**8:30**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	169	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.137	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.137	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.8	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	13.6	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0252	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0249	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0517	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0454	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.232	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.135	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0961	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	6.55	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.11	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	95.6	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0793	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	25.7	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	24.1	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.12	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.44	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.489	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.409	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0128	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0911	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0708	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0121	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00594	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0113	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	14.1	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	6.16	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.26	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.07	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	13.4	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	12.8	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56803-R1	**B18-10087**			**Matrix: Seawater**		**Sampled: 01-Aug-18**		**10:30**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	81.6	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.11	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.112	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.53	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.59	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	10.7	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	13.3	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0167	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0641	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0746	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0938	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0917	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0599	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.83	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.16	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	40	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.719	0.5	1	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0135	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	14.8	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	14.6	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15079	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15079	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.28	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.42	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.418	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.463	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00878	0.005	0.015	Total	J	E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0145	0.005	0.015	Dissolved	J	E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0919	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0704	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00887	0.005	0.01	Total	J	E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00961	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00579	0.005	0.01	Total	J	E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0103	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	10.8	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	7.12	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.9	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.82	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	11.9	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	10.7	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56804-R1	**B18-10088**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**9:12**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	103	3	6	Total		E-16124	02-Nov-18	07-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16124	02-Nov-18	07-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.0999	0.01	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.125	0.01	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.47	0.005	0.015	Total		E-16124	02-Nov-18	07-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.65	0.005	0.015	Dissolved		E-16124	02-Nov-18	07-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11.7	0.25	0.5	Total		E-16124	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11.5	0.25	0.5	Dissolved		E-16124	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0261	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0504	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0557	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.131	0.0125	0.025	Total		E-16124	02-Nov-18	07-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0803	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0576	0.005	0.01	Dissolved		E-16124	02-Nov-18	07-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.47	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.07	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	56.6	0.5	1	Total		E-16124	02-Nov-18	08-Dec-18
Iron (Fe)	EPA 1640	µg/L	ND	0.5	1	Dissolved		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0416	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Lead (Pb)	EPA 1640	µg/L	ND	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Manganese (Mn)	EPA 1640	µg/L	17	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.4	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	9.13	0.005	0.01	Total		E-16124	02-Nov-18	08-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.66	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.444	0.0025	0.005	Total		E-16124	02-Nov-18	08-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.441	0.0025	0.005	Dissolved		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.016	0.005	0.015	Total		E-16124	02-Nov-18	08-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.015	0.005	0.015	Dissolved		E-16124	02-Nov-18	08-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0734	0.01	0.02	Total		E-16124	02-Nov-18	07-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0887	0.01	0.02	Dissolved		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.0102	0.005	0.01	Total		E-16124	02-Nov-18	07-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00879	0.005	0.01	Dissolved	J	E-16124	02-Nov-18	07-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00688	0.005	0.01	Total	J	E-16124	02-Nov-18	08-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0125	0.005	0.01	Dissolved		E-16124	02-Nov-18	08-Dec-18
Titanium (Ti)	EPA 1640	µg/L	11.5	0.035	0.07	Total		E-16124	02-Nov-18	07-Dec-18
Titanium (Ti)	EPA 1640	µg/L	8.01	0.035	0.07	Dissolved		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.72	0.02	0.04	Total		E-16124	02-Nov-18	07-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.68	0.02	0.04	Dissolved		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.64	0.0025	0.005	Total		E-16124	02-Nov-18	07-Dec-18
Zinc (Zn)	EPA 1640	µg/L	4.88	0.0025	0.005	Dissolved		E-16124	02-Nov-18	07-Dec-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56794-R1	**B18-10037**			**Matrix: Seawater**		**Sampled: 31-Jul-18**		**10:20**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	84			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	91			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	77			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	88			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	73			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	2	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.05	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.04	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56795-R1	**B18-10038**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**11:10**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	83			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	96			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	28			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	1.32	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.71	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.65	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.24	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56796-R1	**B18-10041**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**12:35**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	79			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	78			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	92			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	49			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.26	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56797-R1	**B18-10179**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**9:30**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	72			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	93			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	85			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	91			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	49			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	2.53	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.1	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.9	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56798-R1	**B18-10180**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**8:30**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	81			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	84			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	94			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	54			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	2.2	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.36	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56799-R1	**B18-10181**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**7:40**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	77			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	91			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	75			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	91			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	69			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.99	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.18	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56800-R1	**B18-10042**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**12:05**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	80			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	92			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	88			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	73			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.43	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	1.01	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.16	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	2.65	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.63	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.06	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56801-R1	**B18-10085**		**Matrix: Seawater**			**Sampled: 01-Aug-18**	**7:40**	**Received: 02-Aug-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	90			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	96			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	91			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	93			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	84			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.56	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.2	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.73	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	1.15	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56802-R1	**B18-10086**		**Matrix: Seawater**			**Sampled: 01-Aug-18**	**8:30**	**Received: 02-Aug-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	85			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	92			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	72			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	87			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	83			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.1	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	1.01	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.08	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.05	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56803-R1	**B18-10087**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**10:30**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	77			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	79			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	90			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	74			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.17	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	1.09	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.98	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	1.51	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	1.53	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56804-R1	**B18-10088**			**Matrix: Seawater**		**Sampled: 01-Aug-18**		**9:12**	**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	63			Total		O-20050	02-Aug-18	07-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	74			Total		O-20050	02-Aug-18	07-Sep-18
(d12-Perylene)	EPA 625	% Recovery	88			Total		O-20050	02-Aug-18	07-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	37			Total		O-20050	02-Aug-18	07-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18
Phenanthrene	EPA 625	ng/L	1.21	1	5	Total	J	O-20050	02-Aug-18	07-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20050	02-Aug-18	07-Sep-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56794-R1	**B18-10037**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**10:20**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56795-R1	**B18-10038**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**11:10**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56796-R1	**B18-10041**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**12:35**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56797-R1	**B18-10179**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**9:30**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56798-R1	**B18-10180**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**8:30**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56799-R1	**B18-10181**		**Matrix: Seawater**			**Sampled: 31-Jul-18**		**7:40**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56800-R1	**B18-10042**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**12:05**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56801-R1	**B18-10085**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**7:40**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56802-R1	**B18-10086**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**8:30**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18
Sample ID: 56803-R1	**B18-10087**		**Matrix: Seawater**			**Sampled: 01-Aug-18**		**10:30**	**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56804-R1	**B18-10088**			**Matrix: Seawater**			**Sampled: 01-Aug-18 9:12**		**Received: 02-Aug-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19120	15-Aug-18	15-Aug-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 24-Aug-18**			**Analyzed: 24-Aug-18**		
56792-B1	QAQC Procedural Blank	C-39036	ND	0.007	0.03	mg/L									
56792-BS1	QAQC Procedural Blank	C-39036	0.0411	0.007	0.03	mg/L	0.05	0	82	62 - 157%	PASS				
56792-BS2	QAQC Procedural Blank	C-39036	0.0471	0.007	0.03	mg/L	0.05	0	94	62 - 157%	PASS	14	30	PASS	
56799-MS1	B18-10181	C-39036	0.0648	0.007	0.03	mg/L	0.05	0.0271	75	17 - 186%	PASS				
56799-MS2	B18-10181	C-39036	0.0658	0.007	0.03	mg/L	0.05	0.0271	77	17 - 186%	PASS	3	30	PASS	
56799-R2	B18-10181	C-39036	0.0266	0.007	0.03	mg/L						3	30	PASS	J
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 02-Aug-18**			**Analyzed: 02-Aug-18**		
56792-B1	QAQC Procedural Blank	O-16060	ND	0.14	0.2	mg/L									
56792-BS1	QAQC Procedural Blank	O-16060	9.4	0.14	0.2	mg/L	10	0	94	67 - 114%	PASS				
56792-BS2	QAQC Procedural Blank	O-16060	9.98	0.14	0.2	mg/L	10	0	100	67 - 114%	PASS	6	30	PASS	
56794-MS1	B18-10037	O-16060	13.2	0.14	0.2	mg/L	10	2.47	107	50 - 150%	PASS				
56794-MS2	B18-10037	O-16060	13.1	0.14	0.2	mg/L	10	2.47	106	50 - 150%	PASS	1	30	PASS	
56794-R2	B18-10037	O-16060	2.42	0.14	0.2	mg/L						4	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**				**Prepared: 02-Aug-18**			**Analyzed: 02-Aug-18**		
56792-B1	QAQC Procedural Blank	C-38056	ND	0.005	0.025	mg/L									
56792-BS1	QAQC Procedural Blank	C-38056	0.117	0.005	0.025	mg/L	0.1	0	117	15 - 152%	PASS				
56792-BS2	QAQC Procedural Blank	C-38056	0.116	0.005	0.025	mg/L	0.1	0	116	15 - 152%	PASS	1	30	PASS	
56794-MS1	B18-10037	C-38056	0.129	0.005	0.025	mg/L	0.1	0.0203	109	61 - 137%	PASS				
56794-MS2	B18-10037	C-38056	0.137	0.005	0.025	mg/L	0.1	0.0203	117	61 - 137%	PASS	7	30	PASS	
56794-R2	B18-10037	C-38056	0.0217	0.005	0.025	mg/L						14	30	PASS	J
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**				**Prepared: 10-Sep-18**			**Analyzed: 10-Sep-18**		
56792-B1	QAQC Procedural Blank	C-38106	ND	0.01	0.02	mg/L									
56792-BS1	QAQC Procedural Blank	C-38106	0.533	0.01	0.02	mg/L	0.5	0	107	68 - 135%	PASS				
56792-BS2	QAQC Procedural Blank	C-38106	0.539	0.01	0.02	mg/L	0.5	0	108	68 - 135%	PASS	1	30	PASS	
56794-MS1	B18-10037	C-38106	0.592	0.01	0.02	mg/L	0.5	0	118	36 - 176%	PASS				
56794-MS2	B18-10037	C-38106	0.579	0.01	0.02	mg/L	0.5	0	116	36 - 176%	PASS	2	30	PASS	
56794-R2	B18-10037	C-38106	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**				**Prepared: 02-Aug-18**			**Analyzed: 02-Aug-18**		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56792-B1	QAQC Procedural Blank	O-16060	ND	0.14	0.2	mg/L									
56792-BS1	QAQC Procedural Blank	O-16060	9.4	0.14	0.2	mg/L	10	0	94	63 - 133%	PASS				
56792-BS2	QAQC Procedural Blank	O-16060	9.98	0.14	0.2	mg/L	10	0	100	63 - 133%	PASS	6	30	PASS	
56794-MS1	B18-10037	O-16060	13	0.14	0.2	mg/L	10	2.24	108	50 - 150%	PASS				
56794-MS2	B18-10037	O-16060	13.3	0.14	0.2	mg/L	10	2.24	111	50 - 150%	PASS	3	30	PASS	
56794-R2	B18-10037	O-16060	2.24	0.14	0.2	mg/L						0	30	PASS	
Total Orthophosphate as P			**Method: SM 4500-P E**			**Fraction: NA**				**Prepared: 23-Aug-18**			**Analyzed: 23-Aug-18**		
56792-B1	QAQC Procedural Blank	C-38079	ND	0.01	0.02	mg/L									
56792-BS1	QAQC Procedural Blank	C-38079	0.193	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
56792-BS2	QAQC Procedural Blank	C-38079	0.197	0.01	0.02	mg/L	0.2	0	98	42 - 153%	PASS	2	30	PASS	
56794-MS1	B18-10037	C-38079	0.219	0.01	0.02	mg/L	0.2	0.0417	89	54 - 130%	PASS				
56794-MS2	B18-10037	C-38079	0.224	0.01	0.02	mg/L	0.2	0.0417	91	54 - 130%	PASS	2	30	PASS	
56794-R2	B18-10037	C-38079	0.0425	0.01	0.02	mg/L						4	30	PASS	1
Total Suspended Solids			**Method: SM 2540 D**			**Fraction: NA**				**Prepared: 03-Aug-18**			**Analyzed: 03-Aug-18**		
56792-B1	QAQC Procedural Blank	C-40012	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20479-LCM1	**QAQC LCM - Physis Seawater**					**Matrix: Seawater**		**Sampled:**		**Received:**		
	Method: EPA 1640					Batch ID: E-16124		Prepared: 02-Nov-18		Analyzed: 08-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.0833	0.01	0.015	µg/L							
Arsenic (As)	Total	1.55	0.005	0.015	µg/L							
Beryllium (Be)	Total	0.0212	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.108	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.0789	0.0125	0.025	µg/L							
Cobalt (Co)	Total	0.0345	0.005	0.01	µg/L							
Copper (Cu)	Total	0.209	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.0693	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.8	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.331	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.0374	0.005	0.015	µg/L							
Silver (Ag)	Total	0.0332	0.01	0.02	µg/L							
Thallium (Tl)	Total	0.00831	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	4.15	0.035	0.07	µg/L							
Vanadium (V)	Total	1.55	0.02	0.04	µg/L							
Zinc (Zn)	Total	0.463	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20479-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16124		Prepared: 02-Nov-18				Analyzed: 07-Dec-18	
Aluminum (Al)	Total	19.9	3	6	µg/L	20	0	100	82 - 136%	PASS		
Antimony (Sb)	Total	1.42	0.01	0.015	µg/L	20	0.0833	7	0 - 57%	PASS		
Arsenic (As)	Total	21.6	0.005	0.015	µg/L	20	1.55	100	64 - 133%	PASS		
Beryllium (Be)	Total	16.2	0.005	0.01	µg/L	20	0.0212	81	64 - 112%	PASS		
Cadmium (Cd)	Total	20.5	0.0025	0.005	µg/L	20	0.108	102	74 - 107%	PASS		
Chromium (Cr)	Total	18.2	0.0125	0.025	µg/L	20	0.0789	91	87 - 117%	PASS		
Cobalt (Co)	Total	17.3	0.005	0.01	µg/L	20	0.0345	86	79 - 112%	PASS		
Copper (Cu)	Total	16.8	0.005	0.01	µg/L	20	0.209	83	77 - 107%	PASS		
Iron (Fe)	Total	14.4	0.5	1	µg/L	20	0	72	36 - 108%	PASS		
Lead (Pb)	Total	20	0.0025	0.005	µg/L	20	0	100	77 - 110%	PASS		
Manganese (Mn)	Total	16.2	0.01	0.02	µg/L	20	0.0693	81	15 - 142%	PASS		
Molybdenum (Mo)	Total	28	0.005	0.01	µg/L	20	9.8	91	78 - 108%	PASS		
Nickel (Ni)	Total	16.5	0.0025	0.005	µg/L	20	0.331	81	75 - 105%	PASS		
Selenium (Se)	Total	16.7	0.005	0.015	µg/L	20	0.0374	83	76 - 119%	PASS		
Silver (Ag)	Total	8.5	0.01	0.02	µg/L	10	0.0332	85	61 - 113%	PASS		
Thallium (Tl)	Total	18.6	0.005	0.01	µg/L	20	0.00831	93	72 - 109%	PASS		
Tin (Sn)	Total	21.2	0.005	0.01	µg/L	20	0	106	61 - 125%	PASS		
Titanium (Ti)	Total	24.7	0.035	0.07	µg/L	20	4.15	103	41 - 143%	PASS		
Vanadium (V)	Total	20.9	0.02	0.04	µg/L	20	1.55	97	81 - 127%	PASS		
Zinc (Zn)	Total	18	0.0025	0.005	µg/L	20	0.463	88	72 - 116%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20479-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16124		Prepared: 02-Nov-18				Analyzed: 07-Dec-18		
Aluminum (Al)	Total	19.4	3	6	µg/L	20	0	97	82 - 136%	PASS	3	30	PASS
Antimony (Sb)	Total	1.38	0.01	0.015	µg/L	20	0.0833	6	0 - 57%	PASS	15	30	PASS
Arsenic (As)	Total	21.7	0.005	0.015	µg/L	20	1.55	101	64 - 133%	PASS	1	30	PASS
Beryllium (Be)	Total	16	0.005	0.01	µg/L	20	0.0212	80	64 - 112%	PASS	1	30	PASS
Cadmium (Cd)	Total	20.3	0.0025	0.005	µg/L	20	0.108	101	74 - 107%	PASS	1	30	PASS
Chromium (Cr)	Total	18.4	0.0125	0.025	µg/L	20	0.0789	92	87 - 117%	PASS	1	30	PASS
Cobalt (Co)	Total	17.2	0.005	0.01	µg/L	20	0.0345	86	79 - 112%	PASS	0	30	PASS
Copper (Cu)	Total	16.8	0.005	0.01	µg/L	20	0.209	83	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	13.8	0.5	1	µg/L	20	0	69	36 - 108%	PASS	4	30	PASS
Lead (Pb)	Total	20	0.0025	0.005	µg/L	20	0	100	77 - 110%	PASS	0	30	PASS
Manganese (Mn)	Total	18.2	0.01	0.02	µg/L	20	0.0693	91	15 - 142%	PASS	12	30	PASS
Molybdenum (Mo)	Total	27.8	0.005	0.01	µg/L	20	9.8	90	78 - 108%	PASS	1	30	PASS
Nickel (Ni)	Total	16.5	0.0025	0.005	µg/L	20	0.331	81	75 - 105%	PASS	0	30	PASS
Selenium (Se)	Total	17.3	0.005	0.015	µg/L	20	0.0374	86	76 - 119%	PASS	4	30	PASS
Silver (Ag)	Total	8.79	0.01	0.02	µg/L	10	0.0332	88	61 - 113%	PASS	3	30	PASS
Thallium (Tl)	Total	18.6	0.005	0.01	µg/L	20	0.00831	93	72 - 109%	PASS	0	30	PASS
Tin (Sn)	Total	21.4	0.005	0.01	µg/L	20	0	107	61 - 125%	PASS	1	30	PASS
Titanium (Ti)	Total	23.8	0.035	0.07	µg/L	20	4.15	98	41 - 143%	PASS	5	30	PASS
Vanadium (V)	Total	20.8	0.02	0.04	µg/L	20	1.55	96	81 - 127%	PASS	1	30	PASS
Zinc (Zn)	Total	18.1	0.0025	0.005	µg/L	20	0.463	88	72 - 116%	PASS	0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 21765-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 07-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 21765-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.04	0.01	0.02	µg/L	1	0	104	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Total	103	0.25	0.5	µg/L	100	0	103	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 21765-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18					Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS	1	30 PASS	
	Method: EPA 200.8				Batch ID: E-16124		Prepared: 02-Nov-18					Analyzed: 14-Dec-18	
Barium (Ba)	Total	95.8	0.25	0.5	µg/L	100	0	96	89 - 119%	PASS	7	30 PASS	
Sample ID: 56792-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 245.7				Batch ID: E-15079		Prepared: 03-Sep-18					Analyzed: 03-Sep-18	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L								
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18					Analyzed: 05-Dec-18	
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	ND	0.01	0.015	µg/L								
Arsenic (As)	Total	ND	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L								
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L								
Cobalt (Co)	Total	ND	0.005	0.01	µg/L								
Copper (Cu)	Total	ND	0.005	0.01	µg/L								
Iron (Fe)	Total	ND	0.5	1	µg/L								
Lead (Pb)	Total	ND	0.0025	0.005	µg/L								
Manganese (Mn)	Total	ND	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L								
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L								
Selenium (Se)	Total	ND	0.005	0.015	µg/L								
Silver (Ag)	Total	ND	0.01	0.02	µg/L								
Thallium (Tl)	Total	ND	0.005	0.01	µg/L								
Tin (Sn)	Total	ND	0.005	0.01	µg/L								
Titanium (Ti)	Total	ND	0.035	0.07	µg/L								
Vanadium (V)	Total	ND	0.02	0.04	µg/L								
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L								
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18					Analyzed: 13-Dec-18	
Barium (Ba)	Total	ND	0.25	0.5	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56792-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**				
	Method: EPA 245.7				Batch ID: E-15079		Prepared: 03-Sep-18			Analyzed: 03-Sep-18				
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS				
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18				
Barium (Ba)	Total	100	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS				
Sample ID: 56792-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**				
	Method: EPA 245.7				Batch ID: E-15079		Prepared: 03-Sep-18			Analyzed: 03-Sep-18				
Mercury (Hg)	Total	1.04	0.01	0.02	µg/L	1	0	104	84 - 120%	PASS	1	30	PASS	
	Method: EPA 200.8				Batch ID: E-16123		Prepared: 02-Nov-18			Analyzed: 13-Dec-18				
Barium (Ba)	Total	99.7	0.25	0.5	µg/L	100	0	100	89 - 119%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56793-LCM1	**QAQC LCM - Physis Seawater**					**Matrix: Seawater**		**Sampled:**		**Received:**		
	Method: EPA 1640					Batch ID: E-16123		Prepared: 02-Nov-18		Analyzed: 05-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	0.0726	0.01	0.015	µg/L							
Arsenic (As)	Total	1.86	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	0.0991	0.0025	0.005	µg/L							
Chromium (Cr)	Total	0.146	0.0125	0.025	µg/L							
Cobalt (Co)	Total	0.00714	0.005	0.01	µg/L							
Copper (Cu)	Total	0.303	0.005	0.01	µg/L							
Iron (Fe)	Total	0.65	0.5	1	µg/L							
Lead (Pb)	Total	0.00939	0.0025	0.005	µg/L							
Manganese (Mn)	Total	0.0524	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	9.02	0.005	0.01	µg/L							
Nickel (Ni)	Total	0.351	0.0025	0.005	µg/L							
Selenium (Se)	Total	0.0371	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	0.0111	0.005	0.01	µg/L							
Tin (Sn)	Total	0.00534	0.005	0.01	µg/L							
Titanium (Ti)	Total	5.33	0.035	0.07	µg/L							
Vanadium (V)	Total	1.94	0.02	0.04	µg/L							
Zinc (Zn)	Total	0.322	0.0025	0.005	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56793-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16123		Prepared: 02-Nov-18				Analyzed: 05-Dec-18	
Aluminum (Al)	Total	23.4	3	6	µg/L	20	0	117	82 - 136%		PASS	
Antimony (Sb)	Total	1.61	0.01	0.015	µg/L	20	0.0726	8	0 - 57%		PASS	
Arsenic (As)	Total	23	0.005	0.015	µg/L	20	1.86	106	64 - 133%		PASS	
Beryllium (Be)	Total	19.6	0.005	0.01	µg/L	20	0	98	64 - 112%		PASS	
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%		PASS	
Chromium (Cr)	Total	20	0.0125	0.025	µg/L	20	0.146	99	87 - 117%		PASS	
Cobalt (Co)	Total	18.8	0.005	0.01	µg/L	20	0.00714	94	79 - 112%		PASS	
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%		PASS	
Iron (Fe)	Total	14.9	0.5	1	µg/L	20	0.65	71	36 - 108%		PASS	
Lead (Pb)	Total	19.3	0.0025	0.005	µg/L	20	0.00939	96	77 - 110%		PASS	
Manganese (Mn)	Total	17	0.01	0.02	µg/L	20	0.0524	85	15 - 142%		PASS	
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%		PASS	
Nickel (Ni)	Total	19	0.0025	0.005	µg/L	20	0.351	93	75 - 105%		PASS	
Selenium (Se)	Total	18.4	0.005	0.015	µg/L	20	0.0371	92	76 - 119%		PASS	
Silver (Ag)	Total	8.46	0.01	0.02	µg/L	10	0	85	61 - 113%		PASS	
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.0111	91	72 - 109%		PASS	
Tin (Sn)	Total	18.3	0.005	0.01	µg/L	20	0.00534	91	61 - 125%		PASS	
Titanium (Ti)	Total	26.7	0.035	0.07	µg/L	20	5.33	107	41 - 143%		PASS	
Vanadium (V)	Total	23.2	0.02	0.04	µg/L	20	1.94	106	81 - 127%		PASS	
Zinc (Zn)	Total	19.6	0.0025	0.005	µg/L	20	0.322	96	72 - 116%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56793-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**			**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16123			Prepared: 02-Nov-18				Analyzed: 05-Dec-18	
Aluminum (Al)	Total	22.4	3	6	µg/L	20	0	112	82 - 136%	PASS	4	30	PASS
Antimony (Sb)	Total	1.52	0.01	0.015	µg/L	20	0.0726	7	0 - 57%	PASS	13	30	PASS
Arsenic (As)	Total	23.7	0.005	0.015	µg/L	20	1.86	109	64 - 133%	PASS	3	30	PASS
Beryllium (Be)	Total	19.7	0.005	0.01	µg/L	20	0	99	64 - 112%	PASS	0	30	PASS
Cadmium (Cd)	Total	18.9	0.0025	0.005	µg/L	20	0.0991	94	74 - 107%	PASS	0	30	PASS
Chromium (Cr)	Total	19.9	0.0125	0.025	µg/L	20	0.146	99	87 - 117%	PASS	0	30	PASS
Cobalt (Co)	Total	18.6	0.005	0.01	µg/L	20	0.00714	93	79 - 112%	PASS	1	30	PASS
Copper (Cu)	Total	19.4	0.005	0.01	µg/L	20	0.303	95	77 - 107%	PASS	0	30	PASS
Iron (Fe)	Total	15.1	0.5	1	µg/L	20	0.65	72	36 - 108%	PASS	1	30	PASS
Lead (Pb)	Total	19.1	0.0025	0.005	µg/L	20	0.00939	95	77 - 110%	PASS	1	30	PASS
Manganese (Mn)	Total	18.7	0.01	0.02	µg/L	20	0.0524	93	15 - 142%	PASS	9	30	PASS
Molybdenum (Mo)	Total	27.9	0.005	0.01	µg/L	20	9.02	94	78 - 108%	PASS	0	30	PASS
Nickel (Ni)	Total	19.2	0.0025	0.005	µg/L	20	0.351	94	75 - 105%	PASS	1	30	PASS
Selenium (Se)	Total	18.9	0.005	0.015	µg/L	20	0.0371	94	76 - 119%	PASS	2	30	PASS
Silver (Ag)	Total	8.9	0.01	0.02	µg/L	10	0	89	61 - 113%	PASS	5	30	PASS
Thallium (Tl)	Total	18.7	0.005	0.01	µg/L	20	0.0111	93	72 - 109%	PASS	2	30	PASS
Tin (Sn)	Total	18.9	0.005	0.01	µg/L	20	0.00534	94	61 - 125%	PASS	3	30	PASS
Titanium (Ti)	Total	25.7	0.035	0.07	µg/L	20	5.33	102	41 - 143%	PASS	5	30	PASS
Vanadium (V)	Total	22.8	0.02	0.04	µg/L	20	1.94	104	81 - 127%	PASS	2	30	PASS
Zinc (Zn)	Total	18.7	0.0025	0.005	µg/L	20	0.322	92	72 - 116%	PASS	4	30	PASS
Sample ID: 56794-MS1	**B18-10037**				**Matrix: Seawater**			**Sampled: 31-Jul-18**		**10:20**		**Received: 02-Aug-18**	
	Method: EPA 245.7				Batch ID: E-15079			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.17	0.01	0.02	µg/L	1	0	117	76 - 127%	PASS			
Sample ID: 56794-MS2	**B18-10037**				**Matrix: Seawater**			**Sampled: 31-Jul-18**		**10:20**		**Received: 02-Aug-18**	
	Method: EPA 245.7				Batch ID: E-15079			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.16	0.01	0.02	µg/L	1	0	116	76 - 127%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56794-R2	**B18-10037**				**Matrix: Seawater**		**Sampled: 31-Jul-18**	**10:20**		**Received: 02-Aug-18**		
	Method: EPA 245.7				Batch ID: E-15079		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
Sample ID: 56795-MS1	**B18-10038**				**Matrix: Seawater**		**Sampled: 31-Jul-18**	**11:10**		**Received: 02-Aug-18**		
	Method: EPA 1640				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 07-Dec-18		
Aluminum (Al)	Total	224	3	6	µg/L	20	214	50	82 - 136% FAIL			SH
Antimony (Sb)	Total	1.62	0.01	0.015	µg/L	20	0.129	7	0 - 57% PASS			
Arsenic (As)	Total	22.4	0.005	0.015	µg/L	20	1.56	104	64 - 133% PASS			
Beryllium (Be)	Total	16.4	0.005	0.01	µg/L	20	0.0243	82	64 - 112% PASS			
Cadmium (Cd)	Total	18.6	0.0025	0.005	µg/L	20	0.0557	93	74 - 107% PASS			
Chromium (Cr)	Total	18.7	0.0125	0.025	µg/L	20	0.412	91	87 - 117% PASS			
Cobalt (Co)	Total	17.6	0.005	0.01	µg/L	20	0.121	87	79 - 112% PASS			
Copper (Cu)	Total	19.2	0.005	0.01	µg/L	20	3.65	78	77 - 107% PASS			
Iron (Fe)	Total	159	0.5	1	µg/L	20	146	65	36 - 108% PASS			
Lead (Pb)	Total	18.9	0.0025	0.005	µg/L	20	0.258	93	77 - 110% PASS			
Manganese (Mn)	Total	28.2	0.01	0.02	µg/L	20	11.9	82	15 - 142% PASS			
Molybdenum (Mo)	Total	26.8	0.005	0.01	µg/L	20	8.85	90	78 - 108% PASS			
Nickel (Ni)	Total	15.6	0.0025	0.005	µg/L	20	0.578	75	75 - 105% PASS			
Selenium (Se)	Total	16.2	0.005	0.015	µg/L	20	0	81	76 - 119% PASS			
Silver (Ag)	Total	8.33	0.01	0.02	µg/L	10	0.104	82	61 - 113% PASS			
Thallium (Tl)	Total	19	0.005	0.01	µg/L	20	0.0133	95	72 - 109% PASS			
Tin (Sn)	Total	20	0.005	0.01	µg/L	20	0.0259	100	61 - 125% PASS			
Titanium (Ti)	Total	35.8	0.035	0.07	µg/L	20	16.9	94	41 - 143% PASS			
Vanadium (V)	Total	22.4	0.02	0.04	µg/L	20	2.8	98	81 - 127% PASS			
Zinc (Zn)	Total	22.5	0.0025	0.005	µg/L	20	5.01	87	72 - 116% PASS			
	Method: EPA 200.8				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Total	116	0.25	0.5	µg/L	100	10.2	106	90 - 120% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56795-MS2	**B18-10038**				**Matrix: Seawater**			**Sampled: 31-Jul-18**	**11:10**		**Received: 02-Aug-18**			
	Method: EPA 1640				Batch ID: E-16124			Prepared: 02-Nov-18			Analyzed: 07-Dec-18			
Aluminum (Al)	Total	228	3	6	µg/L	20	214	70	82 - 136%	FAIL	33	30	FAIL	SH
Antimony (Sb)	Total	1.56	0.01	0.015	µg/L	20	0.129	7	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	21.7	0.005	0.015	µg/L	20	1.56	101	64 - 133%	PASS	3	30	PASS	
Beryllium (Be)	Total	15.6	0.005	0.01	µg/L	20	0.0243	78	64 - 112%	PASS	5	30	PASS	
Cadmium (Cd)	Total	18.8	0.0025	0.005	µg/L	20	0.0557	94	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	18.5	0.0125	0.025	µg/L	20	0.412	90	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	17.4	0.005	0.01	µg/L	20	0.121	86	79 - 112%	PASS	1	30	PASS	
Copper (Cu)	Total	19.5	0.005	0.01	µg/L	20	3.65	79	77 - 107%	PASS	1	30	PASS	
Iron (Fe)	Total	159	0.5	1	µg/L	20	146	65	36 - 108%	PASS	0	30	PASS	
Lead (Pb)	Total	19.6	0.0025	0.005	µg/L	20	0.258	97	77 - 110%	PASS	4	30	PASS	
Manganese (Mn)	Total	29	0.01	0.02	µg/L	20	11.9	86	15 - 142%	PASS	5	30	PASS	
Molybdenum (Mo)	Total	27.1	0.005	0.01	µg/L	20	8.85	91	78 - 108%	PASS	1	30	PASS	
Nickel (Ni)	Total	16.2	0.0025	0.005	µg/L	20	0.578	78	75 - 105%	PASS	4	30	PASS	
Selenium (Se)	Total	16.4	0.005	0.015	µg/L	20	0	82	76 - 119%	PASS	1	30	PASS	
Silver (Ag)	Total	7.94	0.01	0.02	µg/L	10	0.104	78	61 - 113%	PASS	5	30	PASS	
Thallium (Tl)	Total	18.3	0.005	0.01	µg/L	20	0.0133	91	72 - 109%	PASS	4	30	PASS	
Tin (Sn)	Total	19.6	0.005	0.01	µg/L	20	0.0259	98	61 - 125%	PASS	2	30	PASS	
Titanium (Ti)	Total	34.9	0.035	0.07	µg/L	20	16.9	90	41 - 143%	PASS	4	30	PASS	
Vanadium (V)	Total	21.7	0.02	0.04	µg/L	20	2.8	95	81 - 127%	PASS	3	30	PASS	
Zinc (Zn)	Total	22.8	0.0025	0.005	µg/L	20	5.01	89	72 - 116%	PASS	2	30	PASS	
	Method: EPA 200.8				Batch ID: E-16124			Prepared: 02-Nov-18			Analyzed: 14-Dec-18			
Barium (Ba)	Total	113	0.25	0.5	µg/L	100	10.2	103	90 - 120%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56795-R2	**B18-10038**				**Matrix: Seawater**		**Sampled: 31-Jul-18**	**11:10**		**Received: 02-Aug-18**		
	Method: EPA 1640				Batch ID: E-16124		Prepared: 02-Nov-18			Analyzed: 07-Dec-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					0	30 PASS	
Aluminum (Al)	Total	221	3	6	µg/L					7	30 PASS	
Antimony (Sb)	Dissolved	0.139	0.01	0.015	µg/L					7	30 PASS	
Antimony (Sb)	Total	0.124	0.01	0.015	µg/L					8	30 PASS	
Arsenic (As)	Dissolved	1.67	0.005	0.015	µg/L					9	30 PASS	
Arsenic (As)	Total	1.69	0.005	0.015	µg/L					16	30 PASS	
Beryllium (Be)	Dissolved	0.0615	0.005	0.01	µg/L					142	30 FAIL	SL
Beryllium (Be)	Total	0.0289	0.005	0.01	µg/L					38	30 FAIL	SL
Cadmium (Cd)	Dissolved	0.058	0.0025	0.005	µg/L					7	30 PASS	
Cadmium (Cd)	Total	0.0589	0.0025	0.005	µg/L					11	30 PASS	
Chromium (Cr)	Dissolved	0.0266	0.0125	0.025	µg/L					3	30 PASS	
Chromium (Cr)	Total	0.429	0.0125	0.025	µg/L					8	30 PASS	
Cobalt (Co)	Dissolved	0.0541	0.005	0.01	µg/L					37	30 FAIL	NH
Cobalt (Co)	Total	0.116	0.005	0.01	µg/L					9	30 PASS	
Copper (Cu)	Dissolved	2.7	0.005	0.01	µg/L					13	30 PASS	
Copper (Cu)	Total	4.03	0.005	0.01	µg/L					21	30 PASS	
Iron (Fe)	Dissolved	ND	0.5	1	µg/L					0	30 PASS	
Iron (Fe)	Total	147	0.5	1	µg/L					1	30 PASS	
Lead (Pb)	Dissolved	ND	0.0025	0.005	µg/L					0	30 PASS	
Lead (Pb)	Total	0.279	0.0025	0.005	µg/L					16	30 PASS	
Manganese (Mn)	Dissolved	8.89	0.01	0.02	µg/L					1	30 PASS	
Manganese (Mn)	Total	12.3	0.01	0.02	µg/L					6	30 PASS	
Molybdenum (Mo)	Dissolved	9.21	0.005	0.01	µg/L					2	30 PASS	
Molybdenum (Mo)	Total	8.78	0.005	0.01	µg/L					2	30 PASS	
Nickel (Ni)	Dissolved	0.481	0.0025	0.005	µg/L					2	30 PASS	
Nickel (Ni)	Total	0.598	0.0025	0.005	µg/L					7	30 PASS	
Selenium (Se)	Dissolved	0.00755	0.005	0.015	µg/L					14	30 PASS	J
Selenium (Se)	Total	ND	0.005	0.015	µg/L					0	30 PASS	
Silver (Ag)	Dissolved	0.0576	0.01	0.02	µg/L					10	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Silver (Ag)	Total	0.111	0.01	0.02	µg/L					14	30	PASS	
Thallium (Tl)	Dissolved	0.00877	0.005	0.01	µg/L					39	30	FAIL	J,SL
Thallium (Tl)	Total	0.014	0.005	0.01	µg/L					11	30	PASS	
Tin (Sn)	Dissolved	0.022	0.005	0.01	µg/L					86	30	FAIL	SL
Tin (Sn)	Total	0.0175	0.005	0.01	µg/L					65	30	FAIL	SL
Titanium (Ti)	Dissolved	7.1	0.035	0.07	µg/L					0	30	PASS	
Titanium (Ti)	Total	17.2	0.035	0.07	µg/L					3	30	PASS	
Vanadium (V)	Dissolved	2.44	0.02	0.04	µg/L					2	30	PASS	
Vanadium (V)	Total	2.85	0.02	0.04	µg/L					4	30	PASS	
Zinc (Zn)	Dissolved	2.98	0.0025	0.005	µg/L					15	30	PASS	
Zinc (Zn)	Total	4.97	0.0025	0.005	µg/L					1	30	PASS	
	Method: EPA 200.8				Batch ID: E-16124			Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Dissolved	10.6	0.25	0.5	µg/L					16	30	PASS	
Barium (Ba)	Total	10.3	0.25	0.5	µg/L					1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56792-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18				Analyzed: 05-Sep-18	
(d10-Acenaphthene)	Total	86			% Recovery	100	86	65 - 113%	PASS			
(d10-Phenanthrene)	Total	95			% Recovery	100	95	80 - 111%	PASS			
(d12-Chrysene)	Total	76			% Recovery	100	76	60 - 139%	PASS			
(d12-Perylene)	Total	73			% Recovery	100	73	36 - 161%	PASS			
(d8-Naphthalene)	Total	81			% Recovery	100	81	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56792-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18			Analyzed: 05-Sep-18		
(d10-Acenaphthene)	Total	91			% Recovery	100	0	91	65 - 113%	PASS		
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	80 - 111%	PASS		
(d12-Chrysene)	Total	82			% Recovery	100	0	82	60 - 139%	PASS		
(d12-Perylene)	Total	94			% Recovery	100	0	94	36 - 161%	PASS		
(d8-Naphthalene)	Total	66			% Recovery	100	0	66	44 - 119%	PASS		
1-Methylnaphthalene	Total	371	1	5	ng/L	500	0	74	49 - 117%	PASS		
1-Methylphenanthrene	Total	522	1	5	ng/L	500	0	104	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	576	1	5	ng/L	500	0	115	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	465	1	5	ng/L	500	0	93	54 - 117%	PASS		
2-Methylnaphthalene	Total	391	1	5	ng/L	500	0	78	47 - 130%	PASS		
Acenaphthene	Total	477	1	5	ng/L	500	0	95	53 - 131%	PASS		
Acenaphthylene	Total	442	1	5	ng/L	500	0	88	43 - 140%	PASS		
Anthracene	Total	419	1	5	ng/L	500	0	84	58 - 135%	PASS		
Benz[a]anthracene	Total	434	1	5	ng/L	500	0	87	55 - 145%	PASS		
Benzo[a]pyrene	Total	453	1	5	ng/L	500	0	91	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	619	1	5	ng/L	500	0	124	46 - 165%	PASS		
Benzo[e]pyrene	Total	594	1	5	ng/L	500	0	119	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	462	1	5	ng/L	500	0	92	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	572	1	5	ng/L	500	0	114	56 - 145%	PASS		
Biphenyl	Total	469	1	5	ng/L	500	0	94	56 - 119%	PASS		
Chrysene	Total	404	1	5	ng/L	500	0	81	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	407	1	5	ng/L	500	0	81	55 - 150%	PASS		
Dibenzothiophene	Total	516	1	5	ng/L	500	0	103	75 - 113%	PASS		
Fluoranthene	Total	525	1	5	ng/L	500	0	105	60 - 146%	PASS		
Fluorene	Total	507	1	5	ng/L	500	0	101	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	438	1	5	ng/L	500	0	88	50 - 151%	PASS		
Naphthalene	Total	335	1	5	ng/L	500	0	67	41 - 126%	PASS		
Perylene	Total	479	1	5	ng/L	500	0	96	48 - 141%	PASS		
Phenanthrene	Total	491	1	5	ng/L	500	0	98	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	534	1	5	ng/L	500	0	107	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56792-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 625				Batch ID: O-20050		Prepared: 31-Jul-18				Analyzed: 05-Sep-18			
(d10-Acenaphthene)	Total	72			% Recovery	100	0	72	65 - 113%	PASS	23	30	PASS	
(d10-Phenanthrene)	Total	93			% Recovery	100	0	93	80 - 111%	PASS	2	30	PASS	
(d12-Chrysene)	Total	81			% Recovery	100	0	81	60 - 139%	PASS	1	30	PASS	
(d12-Perylene)	Total	90			% Recovery	100	0	90	36 - 161%	PASS	4	30	PASS	
(d8-Naphthalene)	Total	32			% Recovery	100	0	32	44 - 119%	FAIL	69	30	FAIL	2
1-Methylnaphthalene	Total	215	1	5	ng/L	500	0	43	49 - 117%	FAIL	53	30	FAIL	2
1-Methylphenanthrene	Total	509	1	5	ng/L	500	0	102	66 - 127%	PASS	2	30	PASS	
2,3,5-Trimethylnaphthalene	Total	511	1	5	ng/L	500	0	102	57 - 120%	PASS	12	30	PASS	
2,6-Dimethylnaphthalene	Total	343	1	5	ng/L	500	0	69	54 - 117%	PASS	30	30	PASS	
2-Methylnaphthalene	Total	225	1	5	ng/L	500	0	45	47 - 130%	FAIL	54	30	FAIL	2
Acenaphthene	Total	372	1	5	ng/L	500	0	74	53 - 131%	PASS	25	30	PASS	
Acenaphthylene	Total	347	1	5	ng/L	500	0	69	43 - 140%	PASS	24	30	PASS	
Anthracene	Total	413	1	5	ng/L	500	0	83	58 - 135%	PASS	1	30	PASS	
Benz[a]anthracene	Total	435	1	5	ng/L	500	0	87	55 - 145%	PASS	0	30	PASS	
Benzo[a]pyrene	Total	446	1	5	ng/L	500	0	89	51 - 143%	PASS	2	30	PASS	
Benzo[b]fluoranthene	Total	622	1	5	ng/L	500	0	124	46 - 165%	PASS	0	30	PASS	
Benzo[e]pyrene	Total	596	1	5	ng/L	500	0	119	42 - 152%	PASS	0	30	PASS	
Benzo[g,h,i]perylene	Total	456	1	5	ng/L	500	0	91	63 - 133%	PASS	1	30	PASS	
Benzo[k]fluoranthene	Total	573	1	5	ng/L	500	0	115	56 - 145%	PASS	1	30	PASS	
Biphenyl	Total	341	1	5	ng/L	500	0	68	56 - 119%	PASS	32	30	FAIL	2
Chrysene	Total	408	1	5	ng/L	500	0	82	56 - 141%	PASS	1	30	PASS	
Dibenz[a,h]anthracene	Total	383	1	5	ng/L	500	0	77	55 - 150%	PASS	5	30	PASS	
Dibenzothiophene	Total	503	1	5	ng/L	500	0	101	75 - 113%	PASS	2	30	PASS	
Fluoranthene	Total	506	1	5	ng/L	500	0	101	60 - 146%	PASS	4	30	PASS	
Fluorene	Total	457	1	5	ng/L	500	0	91	58 - 131%	PASS	10	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	436	1	5	ng/L	500	0	87	50 - 151%	PASS	1	30	PASS	
Naphthalene	Total	155	1	5	ng/L	500	0	31	41 - 126%	FAIL	73	30	FAIL	2
Perylene	Total	457	1	5	ng/L	500	0	91	48 - 141%	PASS	5	30	PASS	
Phenanthrene	Total	485	1	5	ng/L	500	0	97	67 - 127%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	518	1	5	ng/L	500	0	104	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56792-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19120			Prepared: 15-Aug-18				Analyzed: 15-Aug-18	
Oil & Grease	NA	ND	1	1	mg/L								
Sample ID: 56792-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19120			Prepared: 15-Aug-18				Analyzed: 15-Aug-18	
Oil & Grease	NA	39.2	1	1	mg/L	40	0	98	70 - 110%	PASS			
Sample ID: 56792-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19120			Prepared: 15-Aug-18				Analyzed: 15-Aug-18	
Oil & Grease	NA	38.2	1	1	mg/L	40	0	96	70 - 110%	PASS	2	30 PASS	

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	7/31/2018	1020	seawater	B18-10037	13	X	X	X	X	X	X	X	X	X	X
	7/31/2018	1110	seawater	B18-10038	13	X	X	X	X	X	X	X	X	X	X
	7/31/2018	1235	seawater	B18-10041	13	X	X	X	X	X	X	X	X	X	X
	7/31/2018	0930	seawater	B18-10179	13	X	X	X	X	X	X	X	X	X	X
	7/31/2018	0830	seawater	B18-10180	13	X	X	X	X	X	X	X	X	X	X
	7/31/2018	0740	seawater	B18-10181	13	X	X	X	X	X	X	X	X	X	X
	8/1/2018	1205	seawater	B18-10042	13	X	X	X	X	X	X	X	X	X	X
	8/1/2018	0740	seawater	B18-10085	13	X	X	X	X	X	X	X	X	X	X
	8/1/2018	0830	seawater	B18-10086	13	X	X	X	X	X	X	X	X	X	X
	8/1/2018	1030	seawater	B18-10087	13	X	X	X	X	X	X	X	X	X	X
	8/1/2018	0912	seawater	B18-10088	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Sheredy	8/2/2018 0718	0718 8/2/18
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

11 COOLERS TOTAL

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625
Total Suspended Solids (TSS)	EPA 2540D

Notes:

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-013

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 8/2/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 11	☐ BLUE ☑ WET ☐ DRY
Start 6:00 End 11:15 ☐ Other:	☐ Other :	☐ None 1.1°C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 12, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-015

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/15/2018. A total of 4 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by SM 4500-NO3 E
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-015

2018 Regional Harbor Monitoring Program Total Samples: 4

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
57529	B18-10040		8/14/2018	13:30	Seawater
57530	B18-10043		8/14/2018	9:45	Seawater
57531	B18-10044		8/14/2018	12:00	Seawater
57532	B18-20043		8/14/2018	10:15	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

ANALYTICAL REPORT

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57529-R1	**B18-10040**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**13:30**	**Received: 15-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0165	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.01	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
MBAS	SM 5540 C	mg/L	0.0196	0.005	0.025	NA	J	C-38068	16-Aug-18	16-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	1.85	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0427	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.44	0.5	0.5	NA		C-40022	18-Aug-18	18-Aug-18
Sample ID: 57530-R1	**B18-10043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**9:45**	**Received: 15-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.0165	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.26	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
MBAS	SM 5540 C	mg/L	0.0287	0.005	0.025	NA		C-38068	16-Aug-18	16-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.78	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0518	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.04	0.5	0.5	NA		C-40022	18-Aug-18	18-Aug-18
Sample ID: 57531-R1	**B18-10044**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**12:00**	**Received: 15-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.39	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
MBAS	SM 5540 C	mg/L	0.0246	0.005	0.025	NA	J	C-38068	16-Aug-18	16-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.67	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0466	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	6.26	0.5	0.5	NA		C-40022	18-Aug-18	18-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57532-R1	**B18-20043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**10:15**	**Received: 15-Aug-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	0.021	0.007	0.03	NA	J	C-39036	24-Aug-18	24-Aug-18
Dissolved Organic Carbon	SM 5310 B	mg/L	2.25	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
MBAS	SM 5540 C	mg/L	0.0201	0.005	0.025	NA	J	C-38068	16-Aug-18	16-Aug-18
Nitrate as N	SM 4500-NO3 E	mg/L	ND	0.01	0.02	NA	1	C-38106	10-Sep-18	10-Sep-18
Total Organic Carbon	SM 5310 B	mg/L	2.53	0.14	0.2	NA		O-16066	15-Aug-18	15-Aug-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0485	0.01	0.02	NA	1	C-38079	23-Aug-18	23-Aug-18
Total Suspended Solids	SM 2540 D	mg/L	3.46	0.5	0.5	NA		C-40022	18-Aug-18	18-Aug-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57529-R1	**B18-10040**			**Matrix: Seawater**		**Sampled: 14-Aug-18**	**13:30**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	93.5	3	6	Total		E-16125	02-Nov-18	10-Dec-18
Aluminum (Al)	EPA 1640	µg/L	3.54	3	6	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.129	0.01	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.133	0.01	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.51	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.57	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11.1	0.25	0.5	Total		E-16125	02-Nov-18	15-Dec-18
Barium (Ba)	EPA 200.8	µg/L	11.5	0.25	0.5	Dissolved		E-16125	02-Nov-18	15-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0254	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.041	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0386	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0641	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.208	0.0125	0.025	Total		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.15	0.0125	0.025	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0891	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0301	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	7.25	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.05	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	42.7	0.5	1	Total		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	1.21	0.5	1	Dissolved		E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.148	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0586	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	13.7	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	11.9	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.14	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.99	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.526	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.542	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0131	0.005	0.015	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0376	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0527	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	0.00543	0.005	0.01	Total	J	E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0187	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	14.8	0.035	0.07	Total		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	21.2	0.035	0.07	Dissolved		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.79	0.02	0.04	Total		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	2.82	0.02	0.04	Dissolved		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.85	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.15	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57530-R1	**B18-10043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**9:45**	**Received: 15-Aug-18**		
Aluminum (Al)	EPA 1640	µg/L	90.9	3	6	Total		E-16125	02-Nov-18	10-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.128	0.01	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.158	0.01	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.61	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.86	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Barium (Ba)	EPA 200.8	µg/L	15	0.25	0.5	Total		E-16125	02-Nov-18	15-Dec-18
Barium (Ba)	EPA 200.8	µg/L	15.2	0.25	0.5	Dissolved		E-16125	02-Nov-18	15-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0668	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0681	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.152	0.0125	0.025	Total		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0366	0.0125	0.025	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0733	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0885	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.81	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	2.59	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	59.9	0.5	1	Total		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.978	0.5	1	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.115	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0188	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	21.4	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	19.4	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.43	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.98	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.519	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.49	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0147	0.005	0.015	Total	J	E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0182	0.01	0.02	Total	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.031	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	18.7	0.035	0.07	Total		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	10.3	0.035	0.07	Dissolved		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.77	0.02	0.04	Total		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.46	0.02	0.04	Dissolved		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	2.92	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	2.3	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57531-R1	**B18-10044**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**12:00**	**Received: 15-Aug-18**		
Aluminum (Al)	EPA 1640	µg/L	145	3	6	Total		E-16125	02-Nov-18	10-Dec-18
Aluminum (Al)	EPA 1640	µg/L	3.53	3	6	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.126	0.01	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.139	0.01	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.67	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	2.04	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Barium (Ba)	EPA 200.8	µg/L	16.7	0.25	0.5	Total		E-16125	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	15.6	0.25	0.5	Dissolved		E-16125	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0341	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.067	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0435	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.257	0.0125	0.025	Total		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	ND	0.0125	0.025	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.114	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0614	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.63	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	4.48	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	128	0.5	1	Total		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.975	0.5	1	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.209	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0144	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	20.7	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	15.7	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.18	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.62	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.552	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.491	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.0172	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00941	0.005	0.015	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0167	0.01	0.02	Total	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0149	0.01	0.02	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.00578	0.005	0.01	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	15.4	0.035	0.07	Total		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	9.35	0.035	0.07	Dissolved		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	4.06	0.02	0.04	Total		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.7	0.02	0.04	Dissolved		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	2.98	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	1.67	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57532-R1	**B18-20043**			**Matrix: Seawater**		**Sampled: 14-Aug-18**	**10:15**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 1640	µg/L	48	3	6	Total		E-16125	02-Nov-18	10-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.116	0.01	0.015	Total		E-16125	02-Nov-18	11-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.148	0.01	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	1.83	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	2.04	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Barium (Ba)	EPA 200.8	µg/L	13.9	0.25	0.5	Total		E-16125	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	14.9	0.25	0.5	Dissolved		E-16125	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0124	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Beryllium (Be)	EPA 1640	µg/L	0.0362	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0445	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0548	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.101	0.0125	0.025	Total		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0214	0.0125	0.025	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0466	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0261	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	3.58	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.43	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Iron (Fe)	EPA 1640	µg/L	36.5	0.5	1	Total		E-16125	02-Nov-18	11-Dec-18
Iron (Fe)	EPA 1640	µg/L	1.58	0.5	1	Dissolved		E-16125	02-Nov-18	10-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0582	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.00407	0.0025	0.005	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	19.6	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	18.3	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.74	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	9.09	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.459	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.454	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Total		E-16125	02-Nov-18	11-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00932	0.005	0.015	Dissolved	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0131	0.01	0.02	Total	J	E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.024	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Tin (Sn)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	17.1	0.035	0.07	Total		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	9.63	0.035	0.07	Dissolved		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.23	0.02	0.04	Total		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	3.09	0.02	0.04	Dissolved		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.22	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.29	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57529-R1	**B18-10040**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**13:30**	**Received: 15-Aug-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	77			Total		O-20072	16-Aug-18	19-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	90			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	76			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Perylene)	EPA 625	% Recovery	90			Total		O-20072	16-Aug-18	19-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	66			Total		O-20072	16-Aug-18	19-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Acenaphthene	EPA 625	ng/L	1.88	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Fluoranthene	EPA 625	ng/L	2.13	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	1.02	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Phenanthrene	EPA 625	ng/L	1.57	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57530-R1	**B18-10043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**9:45**	**Received: 15-Aug-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	71			Total		O-20072	16-Aug-18	19-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	86			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	73			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Perylene)	EPA 625	% Recovery	88			Total		O-20072	16-Aug-18	19-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	57			Total		O-20072	16-Aug-18	19-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.41	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Naphthalene	EPA 625	ng/L	2.32	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57531-R1	**B18-10044**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**12:00**		**Received: 15-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20072	16-Aug-18	19-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	88			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	75			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Perylene)	EPA 625	% Recovery	85			Total		O-20072	16-Aug-18	19-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	59			Total		O-20072	16-Aug-18	19-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	1.06	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Naphthalene	EPA 625	ng/L	1.2	1	5	Total	J	O-20072	16-Aug-18	19-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57532-R1	**B18-20043**			**Matrix: Seawater**		**Sampled: 14-Aug-18**		**10:15**	**Received: 15-Aug-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	73			Total		O-20072	16-Aug-18	19-Sep-18
(d10-Phenanthrene)	EPA 625	% Recovery	86			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Chrysene)	EPA 625	% Recovery	64			Total		O-20072	16-Aug-18	19-Sep-18
(d12-Perylene)	EPA 625	% Recovery	85			Total		O-20072	16-Aug-18	19-Sep-18
(d8-Naphthalene)	EPA 625	% Recovery	60			Total		O-20072	16-Aug-18	19-Sep-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20072	16-Aug-18	19-Sep-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57529-R1	**B18-10040**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**13:30**	**Received: 15-Aug-18**		
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19121	27-Aug-18	27-Aug-18
Sample ID: 57530-R1	**B18-10043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**9:45**	**Received: 15-Aug-18**		
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19121	27-Aug-18	27-Aug-18
Sample ID: 57531-R1	**B18-10044**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**12:00**	**Received: 15-Aug-18**		
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19121	27-Aug-18	27-Aug-18
Sample ID: 57532-R1	**B18-20043**		**Matrix: Seawater**			**Sampled: 14-Aug-18**	**10:15**	**Received: 15-Aug-18**		
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19121	27-Aug-18	27-Aug-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 24-Aug-18**			**Analyzed: 24-Aug-18**			
57527-B1	QAQC Procedural Blank	C-39036	ND	0.007	0.03	mg/L									
57527-BS1	QAQC Procedural Blank	C-39036	0.0411	0.007	0.03	mg/L	0.05	0	82	62 - 157%	PASS				
57527-BS2	QAQC Procedural Blank	C-39036	0.0471	0.007	0.03	mg/L	0.05	0	94	62 - 157%	PASS	14	30	PASS	
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 15-Aug-18**			**Analyzed: 15-Aug-18**			
57527-B1	QAQC Procedural Blank	O-16066	ND	0.14	0.2	mg/L									
57527-BS1	QAQC Procedural Blank	O-16066	8.75	0.14	0.2	mg/L	10	0	88	67 - 114%	PASS				
57527-BS2	QAQC Procedural Blank	O-16066	8.44	0.14	0.2	mg/L	10	0	84	67 - 114%	PASS	5	30	PASS	
57529-MS1	B18-10040	O-16066	11.2	0.14	0.2	mg/L	10	1.93	93	50 - 150%	PASS				
57529-MS2	B18-10040	O-16066	11.3	0.14	0.2	mg/L	10	1.93	94	50 - 150%	PASS	1	30	PASS	
57529-R2	B18-10040	O-16066	1.84	0.14	0.2	mg/L						9	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**			**Prepared: 16-Aug-18**			**Analyzed: 16-Aug-18**			
57527-B1	QAQC Procedural Blank	C-38068	ND	0.005	0.025	mg/L									
57527-BS1	QAQC Procedural Blank	C-38068	0.106	0.005	0.025	mg/L	0.1	0	106	15 - 152%	PASS				
57527-BS2	QAQC Procedural Blank	C-38068	0.105	0.005	0.025	mg/L	0.1	0	105	15 - 152%	PASS	1	30	PASS	
57529-MS1	B18-10040	C-38068	0.131	0.005	0.025	mg/L	0.1	0.0226	108	61 - 137%	PASS				
57529-MS2	B18-10040	C-38068	0.109	0.005	0.025	mg/L	0.1	0.0226	86	61 - 137%	PASS	23	30	PASS	
57529-R2	B18-10040	C-38068	0.0255	0.005	0.025	mg/L						26	30	PASS	
Nitrate as N			**Method: SM 4500-NO3 E**			**Fraction: NA**			**Prepared: 10-Sep-18**			**Analyzed: 10-Sep-18**			
57527-B1	QAQC Procedural Blank	C-38106	ND	0.01	0.02	mg/L									
57527-BS1	QAQC Procedural Blank	C-38106	0.533	0.01	0.02	mg/L	0.5	0	107	68 - 135%	PASS				
57527-BS2	QAQC Procedural Blank	C-38106	0.539	0.01	0.02	mg/L	0.5	0	108	68 - 135%	PASS	1	30	PASS	
57529-MS1	B18-10040	C-38106	0.594	0.01	0.02	mg/L	0.5	0	119	36 - 176%	PASS				
57529-MS2	B18-10040	C-38106	0.599	0.01	0.02	mg/L	0.5	0	120	36 - 176%	PASS	1	30	PASS	
57529-R2	B18-10040	C-38106	ND	0.01	0.02	mg/L						0	30	PASS	1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 15-Aug-18**			**Analyzed: 15-Aug-18**			
57527-B1	QAQC Procedural Blank	O-16066	ND	0.14	0.2	mg/L									
57527-BS1	QAQC Procedural Blank	O-16066	8.75	0.14	0.2	mg/L	10	0	88	63 - 133%	PASS				
57527-BS2	QAQC Procedural Blank	O-16066	8.44	0.14	0.2	mg/L	10	0	84	63 - 133%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
57529-MS1	B18-10040	O-16066	11.3	0.14	0.2	mg/L	10	1.9	94	50 - 150%	PASS				
57529-MS2	B18-10040	O-16066	11.6	0.14	0.2	mg/L	10	1.9	97	50 - 150%	PASS	3	30	PASS	
57529-R2	B18-10040	O-16066	1.95	0.14	0.2	mg/L						5	30	PASS	
Total Orthophosphate as P		**Method: SM 4500-P E**				**Fraction: NA**			**Prepared: 23-Aug-18**			**Analyzed: 23-Aug-18**			
57527-B1	QAQC Procedural Blank	C-38079	ND	0.01	0.02	mg/L									
57527-BS1	QAQC Procedural Blank	C-38079	0.193	0.01	0.02	mg/L	0.2	0	97	42 - 153%	PASS				
57527-BS2	QAQC Procedural Blank	C-38079	0.197	0.01	0.02	mg/L	0.2	0	98	42 - 153%	PASS	2	30	PASS	
57529-MS1	B18-10040	C-38079	0.239	0.01	0.02	mg/L	0.2	0.0429	98	54 - 130%	PASS				
57529-MS2	B18-10040	C-38079	0.239	0.01	0.02	mg/L	0.2	0.0429	98	54 - 130%	PASS	0	30	PASS	
57529-R2	B18-10040	C-38079	0.0431	0.01	0.02	mg/L						1	30	PASS	1
Total Suspended Solids		**Method: SM 2540 D**				**Fraction: NA**			**Prepared: 18-Aug-18**			**Analyzed: 18-Aug-18**			
57527-B1	QAQC Procedural Blank	C-40022	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 10-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 15-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 57527-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.04	0.01	0.02	µg/L	1	0	104	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Total	95.1	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18				Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS	1	30 PASS	
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 14-Dec-18		
Barium (Ba)	Total	95.1	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS	0	30 PASS	
Sample ID: 57528-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 10-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0945	0.01	0.015	µg/L								
Arsenic (As)	Total	1.71	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0875	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.226	0.0125	0.025	µg/L								
Cobalt (Co)	Total	ND	0.005	0.01	µg/L								
Copper (Cu)	Total	0.302	0.005	0.01	µg/L								
Iron (Fe)	Total	ND	0.5	1	µg/L								
Lead (Pb)	Total	0.0303	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.0471	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.08	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.302	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0272	0.005	0.015	µg/L								
Silver (Ag)	Total	0.0219	0.01	0.02	µg/L								
Thallium (Tl)	Total	ND	0.005	0.01	µg/L								
Tin (Sn)	Total	ND	0.005	0.01	µg/L								
Titanium (Ti)	Total	5.77	0.035	0.07	µg/L								
Vanadium (V)	Total	1.81	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.235	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57528-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 10-Dec-18	
Aluminum (Al)	Total	24.2	3	6	µg/L	20	0	121	82 - 136%			PASS
Antimony (Sb)	Total	8.85	0.01	0.015	µg/L	20	0.0945	44	0 - 57%			PASS
Arsenic (As)	Total	24.2	0.005	0.015	µg/L	20	1.71	112	64 - 133%			PASS
Beryllium (Be)	Total	19.8	0.005	0.01	µg/L	20	0	99	64 - 112%			PASS
Cadmium (Cd)	Total	18.1	0.0025	0.005	µg/L	20	0.0875	90	74 - 107%			PASS
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.226	102	87 - 117%			PASS
Cobalt (Co)	Total	18.9	0.005	0.01	µg/L	20	0	94	79 - 112%			PASS
Copper (Cu)	Total	19.1	0.005	0.01	µg/L	20	0.302	94	77 - 107%			PASS
Iron (Fe)	Total	13.3	0.5	1	µg/L	20	0	67	36 - 108%			PASS
Lead (Pb)	Total	18	0.0025	0.005	µg/L	20	0.0303	90	77 - 110%			PASS
Manganese (Mn)	Total	11.8	0.01	0.02	µg/L	20	0.0471	59	15 - 142%			PASS
Molybdenum (Mo)	Total	27.3	0.005	0.01	µg/L	20	9.08	91	78 - 108%			PASS
Nickel (Ni)	Total	17.8	0.0025	0.005	µg/L	20	0.302	87	75 - 105%			PASS
Selenium (Se)	Total	16.8	0.005	0.015	µg/L	20	0.0272	84	76 - 119%			PASS
Silver (Ag)	Total	8.51	0.01	0.02	µg/L	10	0.0219	85	61 - 113%			PASS
Thallium (Tl)	Total	19.5	0.005	0.01	µg/L	20	0	98	72 - 109%			PASS
Tin (Sn)	Total	17.6	0.005	0.01	µg/L	20	0	88	61 - 125%			PASS
Titanium (Ti)	Total	30.7	0.035	0.07	µg/L	20	5.77	125	41 - 143%			PASS
Vanadium (V)	Total	23.6	0.02	0.04	µg/L	20	1.81	109	81 - 127%			PASS
Zinc (Zn)	Total	20	0.0025	0.005	µg/L	20	0.235	99	72 - 116%			PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57528-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**					**Received:**		
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18					Analyzed: 10-Dec-18		
Aluminum (Al)	Total	24.1	3	6	µg/L	20	0	121	82 - 136%	PASS	0	30	PASS	
Antimony (Sb)	Total	8.64	0.01	0.015	µg/L	20	0.0945	43	0 - 57%	PASS	2	30	PASS	
Arsenic (As)	Total	24.3	0.005	0.015	µg/L	20	1.71	113	64 - 133%	PASS	1	30	PASS	
Beryllium (Be)	Total	19	0.005	0.01	µg/L	20	0	95	64 - 112%	PASS	4	30	PASS	
Cadmium (Cd)	Total	18.2	0.0025	0.005	µg/L	20	0.0875	91	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20.5	0.0125	0.025	µg/L	20	0.226	101	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.1	0.005	0.01	µg/L	20	0	96	79 - 112%	PASS	2	30	PASS	
Copper (Cu)	Total	18.9	0.005	0.01	µg/L	20	0.302	93	77 - 107%	PASS	1	30	PASS	
Iron (Fe)	Total	13.1	0.5	1	µg/L	20	0	66	36 - 108%	PASS	0	30	PASS	
Lead (Pb)	Total	17.9	0.0025	0.005	µg/L	20	0.0303	89	77 - 110%	PASS	1	30	PASS	
Manganese (Mn)	Total	20.4	0.01	0.02	µg/L	20	0.0471	102	15 - 142%	PASS	53	30	FAIL	R
Molybdenum (Mo)	Total	26.7	0.005	0.01	µg/L	20	9.08	88	78 - 108%	PASS	3	30	PASS	
Nickel (Ni)	Total	17.6	0.0025	0.005	µg/L	20	0.302	86	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	18.5	0.005	0.015	µg/L	20	0.0272	92	76 - 119%	PASS	9	30	PASS	
Silver (Ag)	Total	8.96	0.01	0.02	µg/L	10	0.0219	89	61 - 113%	PASS	5	30	PASS	
Thallium (Tl)	Total	19.6	0.005	0.01	µg/L	20	0	98	72 - 109%	PASS	0	30	PASS	
Tin (Sn)	Total	17.8	0.005	0.01	µg/L	20	0	89	61 - 125%	PASS	1	30	PASS	
Titanium (Ti)	Total	29.9	0.035	0.07	µg/L	20	5.77	121	41 - 143%	PASS	3	30	PASS	
Vanadium (V)	Total	23.8	0.02	0.04	µg/L	20	1.81	110	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	20	0.0025	0.005	µg/L	20	0.235	99	72 - 116%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57529-MS1	**B18-10040**				**Matrix: Seawater**			**Sampled: 14-Aug-18 13:30**				**Received: 15-Aug-18**	
	Method: EPA 245.7				Batch ID: E-15080			Prepared: 03-Sep-18				Analyzed: 03-Sep-18	
Mercury (Hg)	Total	1.17	0.01	0.02	µg/L	1	0	117	76 - 127%	PASS			
	Method: EPA 1640				Batch ID: E-16125			Prepared: 02-Nov-18				Analyzed: 10-Dec-18	
Aluminum (Al)	Total	112	3	6	µg/L	20	92	100	82 - 136%	PASS			
Antimony (Sb)	Total	7.82	0.01	0.015	µg/L	20	0.124	38	0 - 57%	PASS			
Arsenic (As)	Total	25.5	0.005	0.015	µg/L	20	1.56	120	64 - 133%	PASS			
Beryllium (Be)	Total	19.4	0.005	0.01	µg/L	20	0.0254	97	64 - 112%	PASS			
Cadmium (Cd)	Total	16.1	0.0025	0.005	µg/L	20	0.0466	80	74 - 107%	PASS			
Chromium (Cr)	Total	20.9	0.0125	0.025	µg/L	20	0.205	103	87 - 117%	PASS			
Cobalt (Co)	Total	18.4	0.005	0.01	µg/L	20	0.0615	92	79 - 112%	PASS			
Copper (Cu)	Total	28	0.005	0.01	µg/L	20	7.35	103	77 - 107%	PASS			
Iron (Fe)	Total	62.2	0.5	1	µg/L	20	47.4	74	36 - 108%	PASS			
Lead (Pb)	Total	17.2	0.0025	0.005	µg/L	20	0.147	85	77 - 110%	PASS			
Manganese (Mn)	Total	34.4	0.01	0.02	µg/L	20	13.6	104	15 - 142%	PASS			
Molybdenum (Mo)	Total	24.7	0.005	0.01	µg/L	20	8.06	83	78 - 108%	PASS			
Nickel (Ni)	Total	17	0.0025	0.005	µg/L	20	0.562	82	75 - 105%	PASS			
Selenium (Se)	Total	17.5	0.005	0.015	µg/L	20	0	88	76 - 119%	PASS			
Silver (Ag)	Total	9.41	0.01	0.02	µg/L	10	0.0367	94	61 - 113%	PASS			
Thallium (Tl)	Total	19.3	0.005	0.01	µg/L	20	0.00586	96	72 - 109%	PASS			
Tin (Sn)	Total	14	0.005	0.01	µg/L	20	0.00377	70	61 - 125%	PASS			
Titanium (Ti)	Total	45.8	0.035	0.07	µg/L	20	14.4	157	41 - 143%	FAIL			M
Vanadium (V)	Total	24.8	0.02	0.04	µg/L	20	2.78	110	81 - 127%	PASS			
Zinc (Zn)	Total	20.2	0.0025	0.005	µg/L	20	3.88	82	72 - 116%	PASS			
	Method: EPA 200.8				Batch ID: E-16125			Prepared: 02-Nov-18				Analyzed: 14-Dec-18	
Barium (Ba)	Total	118	0.25	0.5	µg/L	100	10.4	108	90 - 120%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57529-MS2	**B18-10040**				**Matrix: Seawater**			**Sampled: 14-Aug-18 13:30**				**Received: 15-Aug-18**		
	Method: EPA 245.7				Batch ID: E-15080			Prepared: 03-Sep-18				Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.18	0.01	0.02	µg/L	1	0	118	76 - 127%	PASS	1	30	PASS	
	Method: EPA 1640				Batch ID: E-16125			Prepared: 02-Nov-18				Analyzed: 10-Dec-18		
Aluminum (Al)	Total	107	3	6	µg/L	20	92	75	82 - 136%	FAIL	29	30	PASS	M
Antimony (Sb)	Total	7.72	0.01	0.015	µg/L	20	0.124	38	0 - 57%	PASS	0	30	PASS	
Arsenic (As)	Total	24.1	0.005	0.015	µg/L	20	1.56	113	64 - 133%	PASS	6	30	PASS	
Beryllium (Be)	Total	17.2	0.005	0.01	µg/L	20	0.0254	86	64 - 112%	PASS	12	30	PASS	
Cadmium (Cd)	Total	16.5	0.0025	0.005	µg/L	20	0.0466	82	74 - 107%	PASS	2	30	PASS	
Chromium (Cr)	Total	20.4	0.0125	0.025	µg/L	20	0.205	101	87 - 117%	PASS	2	30	PASS	
Cobalt (Co)	Total	18.4	0.005	0.01	µg/L	20	0.0615	92	79 - 112%	PASS	0	30	PASS	
Copper (Cu)	Total	24	0.005	0.01	µg/L	20	7.35	83	77 - 107%	PASS	22	30	PASS	
Iron (Fe)	Total	58	0.5	1	µg/L	20	47.4	53	36 - 108%	PASS	33	30	FAIL	M
Lead (Pb)	Total	17.2	0.0025	0.005	µg/L	20	0.147	85	77 - 110%	PASS	0	30	PASS	
Manganese (Mn)	Total	33.8	0.01	0.02	µg/L	20	13.6	101	15 - 142%	PASS	3	30	PASS	
Molybdenum (Mo)	Total	25	0.005	0.01	µg/L	20	8.06	85	78 - 108%	PASS	2	30	PASS	
Nickel (Ni)	Total	17.2	0.0025	0.005	µg/L	20	0.562	83	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	17.1	0.005	0.015	µg/L	20	0	86	76 - 119%	PASS	2	30	PASS	
Silver (Ag)	Total	9.73	0.01	0.02	µg/L	10	0.0367	97	61 - 113%	PASS	3	30	PASS	
Thallium (Tl)	Total	19.6	0.005	0.01	µg/L	20	0.00586	98	72 - 109%	PASS	2	30	PASS	
Tin (Sn)	Total	15.1	0.005	0.01	µg/L	20	0.00377	75	61 - 125%	PASS	7	30	PASS	
Titanium (Ti)	Total	36.2	0.035	0.07	µg/L	20	14.4	109	41 - 143%	PASS	36	30	FAIL	M
Vanadium (V)	Total	23.9	0.02	0.04	µg/L	20	2.78	106	81 - 127%	PASS	4	30	PASS	
Zinc (Zn)	Total	20.9	0.0025	0.005	µg/L	20	3.88	85	72 - 116%	PASS	4	30	PASS	
	Method: EPA 200.8				Batch ID: E-16125			Prepared: 02-Nov-18				Analyzed: 14-Dec-18		
Barium (Ba)	Total	119	0.25	0.5	µg/L	100	10.4	109	90 - 120%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57529-R2	**B18-10040**				**Matrix: Seawater**		**Sampled: 14-Aug-18 13:30**			**Received: 15-Aug-18**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Dissolved	ND	0.01	0.02	µg/L					0	30 PASS	
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	30 PASS	
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 10-Dec-18		
Aluminum (Al)	Dissolved	ND	3	6	µg/L					17	30 PASS	
Aluminum (Al)	Total	90.6	3	6	µg/L					3	30 PASS	
Antimony (Sb)	Dissolved	0.159	0.01	0.015	µg/L					18	30 PASS	
Antimony (Sb)	Total	0.118	0.01	0.015	µg/L					9	30 PASS	
Arsenic (As)	Dissolved	1.66	0.005	0.015	µg/L					6	30 PASS	
Arsenic (As)	Total	1.61	0.005	0.015	µg/L					6	30 PASS	
Beryllium (Be)	Dissolved	ND	0.005	0.01	µg/L					157	30 FAIL	SL
Beryllium (Be)	Total	0.0253	0.005	0.01	µg/L					0	30 PASS	
Cadmium (Cd)	Dissolved	0.044	0.0025	0.005	µg/L					37	30 FAIL	NH
Cadmium (Cd)	Total	0.0547	0.0025	0.005	µg/L					35	30 FAIL	NH
Chromium (Cr)	Dissolved	0.0556	0.0125	0.025	µg/L					92	30 FAIL	SL
Chromium (Cr)	Total	0.201	0.0125	0.025	µg/L					3	30 PASS	
Cobalt (Co)	Dissolved	0.0332	0.005	0.01	µg/L					10	30 PASS	
Cobalt (Co)	Total	0.0338	0.005	0.01	µg/L					90	30 FAIL	SL
Copper (Cu)	Dissolved	3.41	0.005	0.01	µg/L					11	30 PASS	
Copper (Cu)	Total	7.45	0.005	0.01	µg/L					3	30 PASS	
Iron (Fe)	Dissolved	1.42	0.5	1	µg/L					16	30 PASS	
Iron (Fe)	Total	52	0.5	1	µg/L					20	30 PASS	
Lead (Pb)	Dissolved	0.0308	0.0025	0.005	µg/L					62	30 FAIL	NH
Lead (Pb)	Total	0.147	0.0025	0.005	µg/L					1	30 PASS	
Manganese (Mn)	Dissolved	11.4	0.01	0.02	µg/L					4	30 PASS	
Manganese (Mn)	Total	13.4	0.01	0.02	µg/L					2	30 PASS	
Molybdenum (Mo)	Dissolved	9.35	0.005	0.01	µg/L					4	30 PASS	
Molybdenum (Mo)	Total	7.98	0.005	0.01	µg/L					2	30 PASS	
Nickel (Ni)	Dissolved	0.558	0.0025	0.005	µg/L					3	30 PASS	
Nickel (Ni)	Total	0.598	0.0025	0.005	µg/L					13	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Selenium (Se)	Dissolved	ND	0.005	0.015	µg/L					90	30	FAIL	SL
Selenium (Se)	Total	ND	0.005	0.015	µg/L					0	30	PASS	
Silver (Ag)	Dissolved	0.0337	0.01	0.02	µg/L					44	30	FAIL	SL
Silver (Ag)	Total	0.0358	0.01	0.02	µg/L					5	30	PASS	
Thallium (Tl)	Dissolved	ND	0.005	0.01	µg/L					0	30	PASS	
Thallium (Tl)	Total	0.00629	0.005	0.01	µg/L					15	30	PASS	J
Tin (Sn)	Dissolved	0.0272	0.005	0.01	µg/L					37	30	FAIL	SL
Tin (Sn)	Total	0.00754	0.005	0.01	µg/L					41	30	FAIL	J,SL
Titanium (Ti)	Dissolved	7.06	0.035	0.07	µg/L					100	30	FAIL	NH
Titanium (Ti)	Total	13.9	0.035	0.07	µg/L					6	30	PASS	
Vanadium (V)	Dissolved	2.59	0.02	0.04	µg/L					9	30	PASS	
Vanadium (V)	Total	2.76	0.02	0.04	µg/L					1	30	PASS	
Zinc (Zn)	Dissolved	3.27	0.0025	0.005	µg/L					4	30	PASS	
Zinc (Zn)	Total	3.91	0.0025	0.005	µg/L					2	30	PASS	
	Method: EPA 200.8				Batch ID: E-16125			Prepared: 02-Nov-18			Analyzed: 15-Dec-18		
Barium (Ba)	Dissolved	10.1	0.25	0.5	µg/L					13	30	PASS	
Barium (Ba)	Total	9.76	0.25	0.5	µg/L					13	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20072		Prepared: 16-Aug-18				Analyzed: 19-Sep-18	
(d10-Acenaphthene)	Total	83			% Recovery	100	83	65 - 113%	PASS			
(d10-Phenanthrene)	Total	86			% Recovery	100	86	80 - 111%	PASS			
(d12-Chrysene)	Total	70			% Recovery	100	70	60 - 139%	PASS			
(d12-Perylene)	Total	91			% Recovery	100	91	36 - 161%	PASS			
(d8-Naphthalene)	Total	69			% Recovery	100	69	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20072		Prepared: 16-Aug-18			Analyzed: 19-Sep-18		
(d10-Acenaphthene)	Total	87			% Recovery	100	0	87	65 - 113%	PASS		
(d10-Phenanthrene)	Total	89			% Recovery	100	0	89	80 - 111%	PASS		
(d12-Chrysene)	Total	101			% Recovery	100	0	101	60 - 139%	PASS		
(d12-Perylene)	Total	89			% Recovery	100	0	89	36 - 161%	PASS		
(d8-Naphthalene)	Total	83			% Recovery	100	0	83	44 - 119%	PASS		
1-Methylnaphthalene	Total	465	1	5	ng/L	500	0	93	49 - 117%	PASS		
1-Methylphenanthrene	Total	450	1	5	ng/L	500	0	90	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	451	1	5	ng/L	500	0	90	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	456	1	5	ng/L	500	0	91	54 - 117%	PASS		
2-Methylnaphthalene	Total	457	1	5	ng/L	500	0	91	47 - 130%	PASS		
Acenaphthene	Total	468	1	5	ng/L	500	0	94	53 - 131%	PASS		
Acenaphthylene	Total	429	1	5	ng/L	500	0	86	43 - 140%	PASS		
Anthracene	Total	460	1	5	ng/L	500	0	92	58 - 135%	PASS		
Benz[a]anthracene	Total	524	1	5	ng/L	500	0	105	55 - 145%	PASS		
Benzo[a]pyrene	Total	515	1	5	ng/L	500	0	103	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	488	1	5	ng/L	500	0	98	46 - 165%	PASS		
Benzo[e]pyrene	Total	445	1	5	ng/L	500	0	89	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	404	1	5	ng/L	500	0	81	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	470	1	5	ng/L	500	0	94	56 - 145%	PASS		
Biphenyl	Total	470	1	5	ng/L	500	0	94	56 - 119%	PASS		
Chrysene	Total	506	1	5	ng/L	500	0	101	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	382	1	5	ng/L	500	0	76	55 - 150%	PASS		
Dibenzothiophene	Total	460	1	5	ng/L	500	0	92	75 - 113%	PASS		
Fluoranthene	Total	465	1	5	ng/L	500	0	93	60 - 146%	PASS		
Fluorene	Total	455	1	5	ng/L	500	0	91	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	441	1	5	ng/L	500	0	88	50 - 151%	PASS		
Naphthalene	Total	406	1	5	ng/L	500	0	81	41 - 126%	PASS		
Perylene	Total	481	1	5	ng/L	500	0	96	48 - 141%	PASS		
Phenanthrene	Total	481	1	5	ng/L	500	0	96	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	474	1	5	ng/L	500	0	95	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 625				Batch ID: O-20072		Prepared: 16-Aug-18				Analyzed: 19-Sep-18		
(d10-Acenaphthene)	Total	79			% Recovery	100	0	79	65 - 113%	PASS	10	30	PASS
(d10-Phenanthrene)	Total	88			% Recovery	100	0	88	80 - 111%	PASS	1	30	PASS
(d12-Chrysene)	Total	77			% Recovery	100	0	77	60 - 139%	PASS	27	30	PASS
(d12-Perylene)	Total	89			% Recovery	100	0	89	36 - 161%	PASS	0	30	PASS
(d8-Naphthalene)	Total	68			% Recovery	100	0	68	44 - 119%	PASS	20	30	PASS
1-Methylnaphthalene	Total	400	1	5	ng/L	500	0	80	49 - 117%	PASS	15	30	PASS
1-Methylphenanthrene	Total	453	1	5	ng/L	500	0	91	66 - 127%	PASS	1	30	PASS
2,3,5-Trimethylnaphthalene	Total	418	1	5	ng/L	500	0	84	57 - 120%	PASS	7	30	PASS
2,6-Dimethylnaphthalene	Total	408	1	5	ng/L	500	0	82	54 - 117%	PASS	10	30	PASS
2-Methylnaphthalene	Total	392	1	5	ng/L	500	0	78	47 - 130%	PASS	15	30	PASS
Acenaphthene	Total	430	1	5	ng/L	500	0	86	53 - 131%	PASS	9	30	PASS
Acenaphthylene	Total	391	1	5	ng/L	500	0	78	43 - 140%	PASS	10	30	PASS
Anthracene	Total	464	1	5	ng/L	500	0	93	58 - 135%	PASS	1	30	PASS
Benz[a]anthracene	Total	442	1	5	ng/L	500	0	88	55 - 145%	PASS	18	30	PASS
Benzo[a]pyrene	Total	500	1	5	ng/L	500	0	100	51 - 143%	PASS	3	30	PASS
Benzo[b]fluoranthene	Total	454	1	5	ng/L	500	0	91	46 - 165%	PASS	7	30	PASS
Benzo[e]pyrene	Total	422	1	5	ng/L	500	0	84	42 - 152%	PASS	6	30	PASS
Benzo[g,h,i]perylene	Total	404	1	5	ng/L	500	0	81	63 - 133%	PASS	0	30	PASS
Benzo[k]fluoranthene	Total	445	1	5	ng/L	500	0	89	56 - 145%	PASS	5	30	PASS
Biphenyl	Total	424	1	5	ng/L	500	0	85	56 - 119%	PASS	10	30	PASS
Chrysene	Total	393	1	5	ng/L	500	0	79	56 - 141%	PASS	24	30	PASS
Dibenz[a,h]anthracene	Total	401	1	5	ng/L	500	0	80	55 - 150%	PASS	5	30	PASS
Dibenzothiophene	Total	452	1	5	ng/L	500	0	90	75 - 113%	PASS	2	30	PASS
Fluoranthene	Total	490	1	5	ng/L	500	0	98	60 - 146%	PASS	5	30	PASS
Fluorene	Total	425	1	5	ng/L	500	0	85	58 - 131%	PASS	7	30	PASS
Indeno[1,2,3-cd]pyrene	Total	430	1	5	ng/L	500	0	86	50 - 151%	PASS	2	30	PASS
Naphthalene	Total	335	1	5	ng/L	500	0	67	41 - 126%	PASS	19	30	PASS
Perylene	Total	542	1	5	ng/L	500	0	108	48 - 141%	PASS	12	30	PASS
Phenanthrene	Total	479	1	5	ng/L	500	0	96	67 - 127%	PASS	0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	506	1	5	ng/L	500	0	101	54 - 156%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57527-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19121			Prepared: 27-Aug-18				Analyzed: 27-Aug-18	
Oil & Grease	NA	ND	1	1	mg/L								
Sample ID: 57527-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19121			Prepared: 27-Aug-18				Analyzed: 27-Aug-18	
Oil & Grease	NA	34.2	1	1	mg/L	40	0	86	70 - 110%	PASS			
Sample ID: 57527-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19121			Prepared: 27-Aug-18				Analyzed: 27-Aug-18	
Oil & Grease	NA	37	1	1	mg/L	40	0	93	70 - 110%	PASS	7	30 PASS	

CHAIN OF CUSTODY

1807003-015

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	8/14/2018	1330	seawater	B18-10040	13	X	X	X	X	X	X	X	X	X	X
	8/14/2018	0945	seawater	B18-10043	13	X	X	X	X	X	X	X	X	X	X
	8/14/2018	1200	seawater	B18-10044	13	X	X	X	X	X	X	X	X	X	X
	8/14/2018	1015	seawater	B18-20043	13	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Steve Carlson	8/15/18 1410	RBZ
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-015

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 8/15/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 4	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 16:15 ☐ Other:	☐ Other :	☐ None 6.7 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....No; see notes below
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

See Temperature
Sample ID(s) B18-10040 the TOC Bottle was received empty except for H_3PO_4. We took some sample from the 1L Ambers to fill the empty bottle.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

January 14, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-017

Dear Chris,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 9/13/2018. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Orthophosphate as P by SM 4500-P E
Nitrate as N by EPA 300.0
MBAS by SM 5540 C
Ammonia as N by SM 4500-NH3 D
Elements
Total and Dissolved Barium by EPA 200.8
Total & Dissolved Trace Metals by EPA 1640
Total & Dissolved Mercury by EPA 245.7
Organics
Total Organic Carbon by SM 5310 B
Polynuclear Aromatic Hydrocarbons by EPA 625
Oil & Grease by EPA 1664B
Dissolved Organic Carbon by SM 5310 B

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,

Rich Gossett
Extension 201
714 602-5320
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-017

2018 Regional Harbor Monitoring Program Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
58089	B18-10200		9/12/2018	12:15	Seawater

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

NITRATE AND ORTHOPHOSPHATE

1 Samples were immediately frozen following collection to minimize microbial activity and extend the 2 day method recommended holding time. These samples were maintained frozen until processing and analysis.

POLYNUCLEAR AROMATIC HYDROCARBONS

2 One or more LMW surrogate and target analytes were below the specified acceptance limits as a result of increased loss of this compound during sample preparation due to compound volatility. All other surrogate and target analyte recoveries in the other QC and project samples were within acceptance limits and were therefore not affected.

ANALYTICAL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 1807003-017
Client: Wood Environment & Infrastructure Solutions, Inc.
Project: 2018 Regional Harbor Monitoring Program

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58089-R1	**B18-10200**			**Matrix: Seawater**		**Sampled: 12-Sep-18**	**12:15**		**Received: 13-Sep-18**	
Ammonia as N	SM 4500-NH3 D	mg/L	0.0194	0.007	0.03	NA	J	C-39036	24-Sep-18	24-Sep-18
Dissolved Organic Carbon	SM 5310 B	mg/L	1.99	0.14	0.2	NA		O-16069	13-Sep-18	13-Sep-18
MBAS	SM 5540 C	mg/L	0.0335	0.005	0.025	NA		C-38122	14-Sep-18	14-Sep-18
Nitrate as N	EPA 300.0	mg/L	0.026	0.01	0.05	NA	J,1	C-38138	03-Oct-18	03-Oct-18
Total Organic Carbon	SM 5310 B	mg/L	2.16	0.14	0.2	NA		O-16069	13-Sep-18	13-Sep-18
Total Orthophosphate as P	SM 4500-P E	mg/L	0.0402	0.01	0.02	NA		C-38120	14-Sep-18	14-Sep-18
Total Suspended Solids	SM 2540 D	mg/L	6.24	0.5	0.5	NA		C-40033	19-Sep-18	19-Sep-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58089-R1	**B18-10200**			**Matrix: Seawater**		**Sampled: 12-Sep-18**		**12:15**	**Received: 13-Sep-18**	
Aluminum (Al)	EPA 1640	µg/L	186	3	6	Total		E-16125	02-Nov-18	10-Dec-18
Aluminum (Al)	EPA 1640	µg/L	ND	3	6	Dissolved		E-16125	02-Nov-18	10-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.12	0.01	0.015	Total		E-16125	02-Nov-18	11-Dec-18
Antimony (Sb)	EPA 1640	µg/L	0.138	0.01	0.015	Dissolved		E-16125	02-Nov-18	11-Dec-18
Arsenic (As)	EPA 1640	µg/L	2.23	0.005	0.015	Total		E-16125	02-Nov-18	10-Dec-18
Arsenic (As)	EPA 1640	µg/L	2.04	0.005	0.015	Dissolved		E-16125	02-Nov-18	10-Dec-18
Barium (Ba)	EPA 200.8	µg/L	15.8	0.25	0.5	Total		E-16125	02-Nov-18	14-Dec-18
Barium (Ba)	EPA 200.8	µg/L	14.1	0.25	0.5	Dissolved		E-16125	02-Nov-18	14-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Beryllium (Be)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.0467	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Cadmium (Cd)	EPA 1640	µg/L	0.045	0.0025	0.005	Dissolved		E-16125	02-Nov-18	11-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.242	0.0125	0.025	Total		E-16125	02-Nov-18	10-Dec-18
Chromium (Cr)	EPA 1640	µg/L	0.0678	0.0125	0.025	Dissolved		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0777	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Cobalt (Co)	EPA 1640	µg/L	0.0444	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.1	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Copper (Cu)	EPA 1640	µg/L	5.59	0.005	0.01	Dissolved		E-16125	02-Nov-18	11-Dec-18
Iron (Fe)	EPA 1640	µg/L	96.2	0.5	1	Total		E-16125	02-Nov-18	11-Dec-18
Iron (Fe)	EPA 1640	µg/L	0.968	0.5	1	Dissolved	J	E-16125	02-Nov-18	11-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.208	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Lead (Pb)	EPA 1640	µg/L	0.0158	0.0025	0.005	Dissolved		E-16125	02-Nov-18	11-Dec-18
Manganese (Mn)	EPA 1640	µg/L	25.9	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Manganese (Mn)	EPA 1640	µg/L	21.4	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15080	03-Sep-18	03-Sep-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Dissolved		E-15080	03-Sep-18	03-Sep-18
Molybdenum (Mo)	EPA 1640	µg/L	8.03	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Molybdenum (Mo)	EPA 1640	µg/L	8.82	0.005	0.01	Dissolved		E-16125	02-Nov-18	11-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.542	0.0025	0.005	Total		E-16125	02-Nov-18	11-Dec-18
Nickel (Ni)	EPA 1640	µg/L	0.475	0.0025	0.005	Dissolved		E-16125	02-Nov-18	11-Dec-18
Selenium (Se)	EPA 1640	µg/L	0.00884	0.005	0.015	Total	J	E-16125	02-Nov-18	11-Dec-18
Selenium (Se)	EPA 1640	µg/L	ND	0.005	0.015	Dissolved		E-16125	02-Nov-18	11-Dec-18
Silver (Ag)	EPA 1640	µg/L	0.0207	0.01	0.02	Total		E-16125	02-Nov-18	10-Dec-18
Silver (Ag)	EPA 1640	µg/L	ND	0.01	0.02	Dissolved		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Total		E-16125	02-Nov-18	10-Dec-18
Thallium (Tl)	EPA 1640	µg/L	ND	0.005	0.01	Dissolved		E-16125	02-Nov-18	10-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0102	0.005	0.01	Total		E-16125	02-Nov-18	11-Dec-18
Tin (Sn)	EPA 1640	µg/L	0.0162	0.005	0.01	Dissolved		E-16125	02-Nov-18	11-Dec-18
Titanium (Ti)	EPA 1640	µg/L	16.9	0.035	0.07	Total		E-16125	02-Nov-18	10-Dec-18
Titanium (Ti)	EPA 1640	µg/L	8.01	0.035	0.07	Dissolved		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	4.66	0.02	0.04	Total		E-16125	02-Nov-18	10-Dec-18
Vanadium (V)	EPA 1640	µg/L	4.29	0.02	0.04	Dissolved		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	5.16	0.0025	0.005	Total		E-16125	02-Nov-18	10-Dec-18
Zinc (Zn)	EPA 1640	µg/L	3.99	0.0025	0.005	Dissolved		E-16125	02-Nov-18	10-Dec-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58089-R1	**B18-10200**		**Matrix: Seawater**			**Sampled: 12-Sep-18**		**12:15**	**Received: 13-Sep-18**	
(d10-Acenaphthene)	EPA 625	% Recovery	98			Total		O-20096	14-Sep-18	03-Oct-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20096	14-Sep-18	03-Oct-18
(d12-Chrysene)	EPA 625	% Recovery	105			Total		O-20096	14-Sep-18	03-Oct-18
(d12-Perylene)	EPA 625	% Recovery	108			Total		O-20096	14-Sep-18	03-Oct-18
(d8-Naphthalene)	EPA 625	% Recovery	118			Total	2	O-20096	14-Sep-18	03-Oct-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
2,3,5-Trimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
2-Methylnaphthalene	EPA 625	ng/L	1.34	1	5	Total	J	O-20096	14-Sep-18	03-Oct-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Fluoranthene	EPA 625	ng/L	1.05	1	5	Total	J	O-20096	14-Sep-18	03-Oct-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Naphthalene	EPA 625	ng/L	1.41	1	5	Total	J	O-20096	14-Sep-18	03-Oct-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20096	14-Sep-18	03-Oct-18

Total Extractable Organics

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58089-R1	**B18-10200**		**Matrix: Seawater**			**Sampled: 12-Sep-18**	**12:15**		**Received: 13-Sep-18**	
Oil & Grease	EPA 1664B	mg/L	ND	1	1	NA		C-19124	26-Sep-18	26-Sep-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 24-Sep-18**			**Analyzed: 24-Sep-18**			
58087-B1	QAQC Procedural Blank	C-39036	ND	0.007	0.03	mg/L									
58087-BS1	QAQC Procedural Blank	C-39036	0.0411	0.007	0.03	mg/L	0.05	0	82	62 - 157%	PASS				
58087-BS2	QAQC Procedural Blank	C-39036	0.0471	0.007	0.03	mg/L	0.05	0	94	62 - 157%	PASS	14	30	PASS	
Dissolved Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 13-Sep-18**			**Analyzed: 13-Sep-18**			
58087-B1	QAQC Procedural Blank	O-16069	ND	0.14	0.2	mg/L									
58087-BS1	QAQC Procedural Blank	O-16069	8.64	0.14	0.2	mg/L	10	0	86	67 - 114%	PASS				
58087-BS2	QAQC Procedural Blank	O-16069	8.61	0.14	0.2	mg/L	10	0	86	67 - 114%	PASS	0	30	PASS	
58089-MS1	B18-10200	O-16069	11.6	0.14	0.2	mg/L	10	2.03	96	50 - 150%	PASS				
58089-MS2	B18-10200	O-16069	11.6	0.14	0.2	mg/L	10	2.03	96	50 - 150%	PASS	0	30	PASS	
58089-R2	B18-10200	O-16069	2.07	0.14	0.2	mg/L						4	30	PASS	
MBAS			**Method: SM 5540 C**			**Fraction: NA**			**Prepared: 14-Sep-18**			**Analyzed: 14-Sep-18**			
58087-B1	QAQC Procedural Blank	C-38122	ND	0.005	0.025	mg/L									
58087-BS1	QAQC Procedural Blank	C-38122	0.131	0.005	0.025	mg/L	0.1	0	131	15 - 152%	PASS				
58087-BS2	QAQC Procedural Blank	C-38122	0.127	0.005	0.025	mg/L	0.1	0	127	15 - 152%	PASS	3	30	PASS	
58089-MS1	B18-10200	C-38122	0.148	0.005	0.025	mg/L	0.1	0.0257	122	61 - 137%	PASS				
58089-MS2	B18-10200	C-38122	0.142	0.005	0.025	mg/L	0.1	0.0257	116	61 - 137%	PASS	5	30	PASS	
58089-R2	B18-10200	C-38122	0.0179	0.005	0.025	mg/L						61	30	FAIL	J,SL
Nitrate as N			**Method: EPA 300.0**			**Fraction: NA**			**Prepared: 03-Oct-18**			**Analyzed: 03-Oct-18**			
58087-B1	QAQC Procedural Blank	C-38138	ND	0.01	0.05	mg/L									
58087-BS1	QAQC Procedural Blank	C-38138	0.532	0.01	0.05	mg/L	0.5	0	106	62 - 136%	PASS				
58087-BS2	QAQC Procedural Blank	C-38138	0.528	0.01	0.05	mg/L	0.5	0	106	62 - 136%	PASS	0	30	PASS	
58089-MS1	B18-10200	C-38138	0.597	0.01	0.05	mg/L	0.5	0.028	114	76 - 121%	PASS				
58089-MS2	B18-10200	C-38138	0.591	0.01	0.05	mg/L	0.5	0.028	113	76 - 121%	PASS	1	30	PASS	
58089-R2	B18-10200	C-38138	0.03	0.01	0.05	mg/L						14	30	PASS	J,1
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 13-Sep-18**			**Analyzed: 13-Sep-18**			
58087-B1	QAQC Procedural Blank	O-16069	ND	0.14	0.2	mg/L									
58087-BS1	QAQC Procedural Blank	O-16069	8.64	0.14	0.2	mg/L	10	0	86	63 - 133%	PASS				
58087-BS2	QAQC Procedural Blank	O-16069	8.61	0.14	0.2	mg/L	10	0	86	63 - 133%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
58089-MS1	B18-10200	O-16069	12	0.14	0.2	mg/L	10	2.25	98	50 - 150%	PASS				
58089-MS2	B18-10200	O-16069	12.1	0.14	0.2	mg/L	10	2.25	99	50 - 150%	PASS	0	30	PASS	
58089-R2	B18-10200	O-16069	2.35	0.14	0.2	mg/L						8	30	PASS	
Total Orthophosphate as P			**Method: SM 4500-P E**			**Fraction: NA**			**Prepared: 14-Sep-18**				**Analyzed: 14-Sep-18**		
58087-B1	QAQC Procedural Blank	C-38120	ND	0.01	0.02	mg/L									
58087-BS1	QAQC Procedural Blank	C-38120	0.186	0.01	0.02	mg/L	0.2	0	93	42 - 153%	PASS				
58087-BS2	QAQC Procedural Blank	C-38120	0.185	0.01	0.02	mg/L	0.2	0	93	42 - 153%	PASS	1	30	PASS	
58089-MS1	B18-10200	C-38120	0.227	0.01	0.02	mg/L	0.2	0.0418	93	54 - 130%	PASS				
58089-MS2	B18-10200	C-38120	0.229	0.01	0.02	mg/L	0.2	0.0418	94	54 - 130%	PASS	1	30	PASS	
58089-R2	B18-10200	C-38120	0.0433	0.01	0.02	mg/L						7	30	PASS	
Total Suspended Solids			**Method: SM 2540 D**			**Fraction: NA**			**Prepared: 19-Sep-18**				**Analyzed: 19-Sep-18**		
58087-B1	QAQC Procedural Blank	C-40033	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58087-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 10-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L							
Antimony (Sb)	Total	ND	0.01	0.015	µg/L							
Arsenic (As)	Total	ND	0.005	0.015	µg/L							
Beryllium (Be)	Total	ND	0.005	0.01	µg/L							
Cadmium (Cd)	Total	ND	0.0025	0.005	µg/L							
Chromium (Cr)	Total	ND	0.0125	0.025	µg/L							
Cobalt (Co)	Total	ND	0.005	0.01	µg/L							
Copper (Cu)	Total	ND	0.005	0.01	µg/L							
Iron (Fe)	Total	ND	0.5	1	µg/L							
Lead (Pb)	Total	ND	0.0025	0.005	µg/L							
Manganese (Mn)	Total	ND	0.01	0.02	µg/L							
Molybdenum (Mo)	Total	ND	0.005	0.01	µg/L							
Nickel (Ni)	Total	ND	0.0025	0.005	µg/L							
Selenium (Se)	Total	ND	0.005	0.015	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Thallium (Tl)	Total	ND	0.005	0.01	µg/L							
Tin (Sn)	Total	ND	0.005	0.01	µg/L							
Titanium (Ti)	Total	ND	0.035	0.07	µg/L							
Vanadium (V)	Total	ND	0.02	0.04	µg/L							
Zinc (Zn)	Total	ND	0.0025	0.005	µg/L							
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 15-Dec-18		
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Sample ID: 58087-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18			Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.04	0.01	0.02	µg/L	1	0	104	84 - 120%	PASS		
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18			Analyzed: 14-Dec-18		
Barium (Ba)	Total	95.1	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58087-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 245.7				Batch ID: E-15080		Prepared: 03-Sep-18				Analyzed: 03-Sep-18		
Mercury (Hg)	Total	1.05	0.01	0.02	µg/L	1	0	105	84 - 120%	PASS	1	30 PASS	
	Method: EPA 200.8				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 14-Dec-18		
Barium (Ba)	Total	95.1	0.25	0.5	µg/L	100	0	95	89 - 119%	PASS	0	30 PASS	
Sample ID: 58088-LCM1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**		
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 10-Dec-18		
Aluminum (Al)	Total	ND	3	6	µg/L								
Antimony (Sb)	Total	0.0945	0.01	0.015	µg/L								
Arsenic (As)	Total	1.71	0.005	0.015	µg/L								
Beryllium (Be)	Total	ND	0.005	0.01	µg/L								
Cadmium (Cd)	Total	0.0875	0.0025	0.005	µg/L								
Chromium (Cr)	Total	0.226	0.0125	0.025	µg/L								
Cobalt (Co)	Total	ND	0.005	0.01	µg/L								
Copper (Cu)	Total	0.302	0.005	0.01	µg/L								
Iron (Fe)	Total	ND	0.5	1	µg/L								
Lead (Pb)	Total	0.0303	0.0025	0.005	µg/L								
Manganese (Mn)	Total	0.0471	0.01	0.02	µg/L								
Molybdenum (Mo)	Total	9.08	0.005	0.01	µg/L								
Nickel (Ni)	Total	0.302	0.0025	0.005	µg/L								
Selenium (Se)	Total	0.0272	0.005	0.015	µg/L								
Silver (Ag)	Total	0.0219	0.01	0.02	µg/L								
Thallium (Tl)	Total	ND	0.005	0.01	µg/L								
Tin (Sn)	Total	ND	0.005	0.01	µg/L								
Titanium (Ti)	Total	5.77	0.035	0.07	µg/L								
Vanadium (V)	Total	1.81	0.02	0.04	µg/L								
Zinc (Zn)	Total	0.235	0.0025	0.005	µg/L								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58088-LCS1	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**				**Received:**	
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18				Analyzed: 10-Dec-18	
Aluminum (Al)	Total	24.2	3	6	µg/L	20	0	121	82 - 136%	PASS		
Antimony (Sb)	Total	8.85	0.01	0.015	µg/L	20	0.0945	44	0 - 57%	PASS		
Arsenic (As)	Total	24.2	0.005	0.015	µg/L	20	1.71	112	64 - 133%	PASS		
Beryllium (Be)	Total	19.8	0.005	0.01	µg/L	20	0	99	64 - 112%	PASS		
Cadmium (Cd)	Total	18.1	0.0025	0.005	µg/L	20	0.0875	90	74 - 107%	PASS		
Chromium (Cr)	Total	20.7	0.0125	0.025	µg/L	20	0.226	102	87 - 117%	PASS		
Cobalt (Co)	Total	18.9	0.005	0.01	µg/L	20	0	94	79 - 112%	PASS		
Copper (Cu)	Total	19.1	0.005	0.01	µg/L	20	0.302	94	77 - 107%	PASS		
Iron (Fe)	Total	13.3	0.5	1	µg/L	20	0	67	36 - 108%	PASS		
Lead (Pb)	Total	18	0.0025	0.005	µg/L	20	0.0303	90	77 - 110%	PASS		
Manganese (Mn)	Total	11.8	0.01	0.02	µg/L	20	0.0471	59	15 - 142%	PASS		
Molybdenum (Mo)	Total	27.3	0.005	0.01	µg/L	20	9.08	91	78 - 108%	PASS		
Nickel (Ni)	Total	17.8	0.0025	0.005	µg/L	20	0.302	87	75 - 105%	PASS		
Selenium (Se)	Total	16.8	0.005	0.015	µg/L	20	0.0272	84	76 - 119%	PASS		
Silver (Ag)	Total	8.51	0.01	0.02	µg/L	10	0.0219	85	61 - 113%	PASS		
Thallium (Tl)	Total	19.5	0.005	0.01	µg/L	20	0	98	72 - 109%	PASS		
Tin (Sn)	Total	17.6	0.005	0.01	µg/L	20	0	88	61 - 125%	PASS		
Titanium (Ti)	Total	30.7	0.035	0.07	µg/L	20	5.77	125	41 - 143%	PASS		
Vanadium (V)	Total	23.6	0.02	0.04	µg/L	20	1.81	109	81 - 127%	PASS		
Zinc (Zn)	Total	20	0.0025	0.005	µg/L	20	0.235	99	72 - 116%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58088-LCS2	**QAQC LCM - Physis Seawater**				**Matrix: Seawater**		**Sampled:**					**Received:**		
	Method: EPA 1640				Batch ID: E-16125		Prepared: 02-Nov-18					Analyzed: 10-Dec-18		
Aluminum (Al)	Total	24.1	3	6	µg/L	20	0	121	82 - 136%	PASS	0	30	PASS	
Antimony (Sb)	Total	8.64	0.01	0.015	µg/L	20	0.0945	43	0 - 57%	PASS	2	30	PASS	
Arsenic (As)	Total	24.3	0.005	0.015	µg/L	20	1.71	113	64 - 133%	PASS	1	30	PASS	
Beryllium (Be)	Total	19	0.005	0.01	µg/L	20	0	95	64 - 112%	PASS	4	30	PASS	
Cadmium (Cd)	Total	18.2	0.0025	0.005	µg/L	20	0.0875	91	74 - 107%	PASS	1	30	PASS	
Chromium (Cr)	Total	20.5	0.0125	0.025	µg/L	20	0.226	101	87 - 117%	PASS	1	30	PASS	
Cobalt (Co)	Total	19.1	0.005	0.01	µg/L	20	0	96	79 - 112%	PASS	2	30	PASS	
Copper (Cu)	Total	18.9	0.005	0.01	µg/L	20	0.302	93	77 - 107%	PASS	1	30	PASS	
Iron (Fe)	Total	13.1	0.5	1	µg/L	20	0	66	36 - 108%	PASS	0	30	PASS	
Lead (Pb)	Total	17.9	0.0025	0.005	µg/L	20	0.0303	89	77 - 110%	PASS	1	30	PASS	
Manganese (Mn)	Total	20.4	0.01	0.02	µg/L	20	0.0471	102	15 - 142%	PASS	53	30	FAIL	R
Molybdenum (Mo)	Total	26.7	0.005	0.01	µg/L	20	9.08	88	78 - 108%	PASS	3	30	PASS	
Nickel (Ni)	Total	17.6	0.0025	0.005	µg/L	20	0.302	86	75 - 105%	PASS	1	30	PASS	
Selenium (Se)	Total	18.5	0.005	0.015	µg/L	20	0.0272	92	76 - 119%	PASS	9	30	PASS	
Silver (Ag)	Total	8.96	0.01	0.02	µg/L	10	0.0219	89	61 - 113%	PASS	5	30	PASS	
Thallium (Tl)	Total	19.6	0.005	0.01	µg/L	20	0	98	72 - 109%	PASS	0	30	PASS	
Tin (Sn)	Total	17.8	0.005	0.01	µg/L	20	0	89	61 - 125%	PASS	1	30	PASS	
Titanium (Ti)	Total	29.9	0.035	0.07	µg/L	20	5.77	121	41 - 143%	PASS	3	30	PASS	
Vanadium (V)	Total	23.8	0.02	0.04	µg/L	20	1.81	110	81 - 127%	PASS	1	30	PASS	
Zinc (Zn)	Total	20	0.0025	0.005	µg/L	20	0.235	99	72 - 116%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58087-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20096		Prepared: 14-Sep-18				Analyzed: 02-Oct-18	
(d10-Acenaphthene)	Total	101			% Recovery	100	101	65 - 113%	PASS			
(d10-Phenanthrene)	Total	101			% Recovery	100	101	80 - 111%	PASS			
(d12-Chrysene)	Total	80			% Recovery	100	80	60 - 139%	PASS			
(d12-Perylene)	Total	124			% Recovery	100	124	36 - 161%	PASS			
(d8-Naphthalene)	Total	104			% Recovery	100	104	44 - 119%	PASS			
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,3,5-Trimethylnaphthalene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58087-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20096		Prepared: 14-Sep-18			Analyzed: 02-Oct-18		
(d10-Acenaphthene)	Total	105			% Recovery	100	0	105	65 - 113%	PASS		
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	80 - 111%	PASS		
(d12-Chrysene)	Total	110			% Recovery	100	0	110	60 - 139%	PASS		
(d12-Perylene)	Total	112			% Recovery	100	0	112	36 - 161%	PASS		
(d8-Naphthalene)	Total	85			% Recovery	100	0	85	44 - 119%	PASS		
1-Methylnaphthalene	Total	540	1	5	ng/L	500	0	108	49 - 117%	PASS		
1-Methylphenanthrene	Total	410	1	5	ng/L	500	0	82	66 - 127%	PASS		
2,3,5-Trimethylnaphthalene	Total	441	1	5	ng/L	500	0	88	57 - 120%	PASS		
2,6-Dimethylnaphthalene	Total	501	1	5	ng/L	500	0	100	54 - 117%	PASS		
2-Methylnaphthalene	Total	1680	1	5	ng/L	1500	0	112	47 - 130%	PASS		
Acenaphthene	Total	1420	1	5	ng/L	1500	0	95	53 - 131%	PASS		
Acenaphthylene	Total	1500	1	5	ng/L	1500	0	100	43 - 140%	PASS		
Anthracene	Total	1360	1	5	ng/L	1500	0	91	58 - 135%	PASS		
Benz[a]anthracene	Total	1680	1	5	ng/L	1500	0	112	55 - 145%	PASS		
Benzo[a]pyrene	Total	1240	1	5	ng/L	1500	0	83	51 - 143%	PASS		
Benzo[b]fluoranthene	Total	2040	1	5	ng/L	1500	0	136	46 - 165%	PASS		
Benzo[e]pyrene	Total	370	1	5	ng/L	500	0	74	42 - 152%	PASS		
Benzo[g,h,i]perylene	Total	1300	1	5	ng/L	1500	0	87	63 - 133%	PASS		
Benzo[k]fluoranthene	Total	1700	1	5	ng/L	1500	0	113	56 - 145%	PASS		
Biphenyl	Total	557	1	5	ng/L	500	0	111	56 - 119%	PASS		
Chrysene	Total	1620	1	5	ng/L	1500	0	108	56 - 141%	PASS		
Dibenz[a,h]anthracene	Total	1230	1	5	ng/L	1500	0	82	55 - 150%	PASS		
Dibenzothiophene	Total	440	1	5	ng/L	500	0	88	75 - 113%	PASS		
Fluoranthene	Total	1520	1	5	ng/L	1500	0	101	60 - 146%	PASS		
Fluorene	Total	1480	1	5	ng/L	1500	0	99	58 - 131%	PASS		
Indeno[1,2,3-cd]pyrene	Total	1460	1	5	ng/L	1500	0	97	50 - 151%	PASS		
Naphthalene	Total	1830	1	5	ng/L	1500	0	122	41 - 126%	PASS		
Perylene	Total	490	1	5	ng/L	500	0	98	48 - 141%	PASS		
Phenanthrene	Total	1350	1	5	ng/L	1500	0	90	67 - 127%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	1560	1	5	ng/L	1500	0	104	54 - 156%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58087-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 625				Batch ID: O-20096		Prepared: 14-Sep-18					Analyzed: 02-Oct-18		
(d10-Acenaphthene)	Total	113			% Recovery	100	0	113	65 - 113%	PASS	7	30	PASS	
(d10-Phenanthrene)	Total	98			% Recovery	100	0	98	80 - 111%	PASS	3	30	PASS	
(d12-Chrysene)	Total	114			% Recovery	100	0	114	60 - 139%	PASS	4	30	PASS	
(d12-Perylene)	Total	102			% Recovery	100	0	102	36 - 161%	PASS	9	30	PASS	
(d8-Naphthalene)	Total	82			% Recovery	100	0	82	44 - 119%	PASS	4	30	PASS	
1-Methylnaphthalene	Total	584	1	5	ng/L	500	0	117	49 - 117%	PASS	8	30	PASS	
1-Methylphenanthrene	Total	423	1	5	ng/L	500	0	85	66 - 127%	PASS	4	30	PASS	
2,3,5-Trimethylnaphthalene	Total	462	1	5	ng/L	500	0	92	57 - 120%	PASS	4	30	PASS	
2,6-Dimethylnaphthalene	Total	544	1	5	ng/L	500	0	109	54 - 117%	PASS	9	30	PASS	
2-Methylnaphthalene	Total	1840	1	5	ng/L	1500	0	123	47 - 130%	PASS	9	30	PASS	
Acenaphthene	Total	1540	1	5	ng/L	1500	0	103	53 - 131%	PASS	8	30	PASS	
Acenaphthylene	Total	1640	1	5	ng/L	1500	0	109	43 - 140%	PASS	9	30	PASS	
Anthracene	Total	1400	1	5	ng/L	1500	0	93	58 - 135%	PASS	2	30	PASS	
Benz[a]anthracene	Total	1780	1	5	ng/L	1500	0	119	55 - 145%	PASS	6	30	PASS	
Benzo[a]pyrene	Total	1280	1	5	ng/L	1500	0	85	51 - 143%	PASS	2	30	PASS	
Benzo[b]fluoranthene	Total	2090	1	5	ng/L	1500	0	139	46 - 165%	PASS	2	30	PASS	
Benzo[e]pyrene	Total	376	1	5	ng/L	500	0	75	42 - 152%	PASS	1	30	PASS	
Benzo[g,h,i]perylene	Total	1430	1	5	ng/L	1500	0	95	63 - 133%	PASS	9	30	PASS	
Benzo[k]fluoranthene	Total	1740	1	5	ng/L	1500	0	116	56 - 145%	PASS	3	30	PASS	
Biphenyl	Total	593	1	5	ng/L	500	0	119	56 - 119%	PASS	7	30	PASS	
Chrysene	Total	1690	1	5	ng/L	1500	0	113	56 - 141%	PASS	5	30	PASS	
Dibenz[a,h]anthracene	Total	1570	1	5	ng/L	1500	0	105	55 - 150%	PASS	25	30	PASS	
Dibenzothiophene	Total	454	1	5	ng/L	500	0	91	75 - 113%	PASS	3	30	PASS	
Fluoranthene	Total	1550	1	5	ng/L	1500	0	103	60 - 146%	PASS	2	30	PASS	
Fluorene	Total	1550	1	5	ng/L	1500	0	103	58 - 131%	PASS	4	30	PASS	
Indeno[1,2,3-cd]pyrene	Total	1580	1	5	ng/L	1500	0	105	50 - 151%	PASS	8	30	PASS	
Naphthalene	Total	1960	1	5	ng/L	1500	0	131	41 - 126%	FAIL	7	30	PASS	2
Perylene	Total	426	1	5	ng/L	500	0	85	48 - 141%	PASS	14	30	PASS	
Phenanthrene	Total	1370	1	5	ng/L	1500	0	91	67 - 127%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	1600	1	5	ng/L	1500	0	107	54 - 156%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Total Extractable Organics — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58087-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19124			Prepared: 26-Sep-18				Analyzed: 26-Sep-18	
Oil & Grease	NA	ND	1	1	mg/L								
Sample ID: 58087-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19124			Prepared: 26-Sep-18				Analyzed: 26-Sep-18	
Oil & Grease	NA	36.5	1	1	mg/L	40	0	91	70 - 110%	PASS			
Sample ID: 58087-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 1664B				Batch ID: C-19124			Prepared: 26-Sep-18				Analyzed: 26-Sep-18	
Oil & Grease	NA	36.8	1	1	mg/L	40	0	92	70 - 110%	PASS	1	30 PASS	

CHAIN OF CUSTODY

1 COOLER TOTAL (incl. ~~Batiquitos~~ SD Cnty Lagoons)

1807003-017

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Ammonia-N (SM 4500-NH_3 D)	Methylene-Blue-Activated Substances (MBAS) (SM 5540 C)	Nitrate-N** (EPA 300.0/SM 4500-NO3 E)	Oil & Grease (EPA 1664A)	Dissolved Organic Carbon / Total Organic Carbon (EPA 415.3)	Total Orthophosphate as P** (SM 4500 P E)	Total & Dissolved* Metals (EPA 1640)	Total & Dissolved* Mercury (EPA 245.7)	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 625)	Total Suspended Solids (TSS) (EPA 2540D)
	9/12/2018	1215	seawater	B18-10200	13	X	X	X	X	X	X	X	X	X	X

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	9/13/2018 1430	RBS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

*** Diss. metals and dissolved mercury were field filtered using 0.45 um bottletop filtration system.**

** Nitrate-N/Total Orthophosphate as P was immediately frozen following collection.

COOLER COUNT: 1 COOLER (has 1 water bottle bag and 1 sediment bag of 2 jars and 1 ziplock)

NOTE (7/3/2018 edit): Seawater samples will also be analyzed for TSS.

Table 6-1.
RHMP Constituents to be Monitored in Seawater and Corresponding Analytical Methods

Analyte	Analysis Method
pH	Field Measurement
Specific Conductance	Field Measurement
Dissolved Oxygen	Field Measurement
Temperature	Field Measurement
Salinity	Field Measurement
Transmissivity	Field Measurement
Ammonia-N	SM 4500-NH_3 D
Methylene-Blue-Activated Substances (MBAS)	SM 5540 C
Nitrate-N	EPA 300.0/SM 4500-NO3 E
Oil & Grease	EPA 1664A
Dissolved Organic Carbon (DOC)	EPA 415.3
Total Organic Carbon (TOC)	EPA 415.3
Total Orthophosphate as P	SM 4500 P E
Aluminum (Al)[a]	EPA 1640
Antimony (Sb)[a]	EPA 1640
Arsenic (As)[a]	EPA 1640
Barium (Ba)[a]	EPA 200.8
Beryllium (Be)[a]	EPA 1640
Cadmium (Cd)[a]	EPA 1640
Chromium (Cr)[a]	EPA 1640
Cobalt (Co)[a]	EPA 1640
Copper (Cu)[a]	EPA 1640
Iron (Fe)[a]	EPA 1640
Lead (Pb)[a]	EPA 1640
Manganese (Mn)[a]	EPA 1640
Mercury (Hg)[a]	EPA 245.7
Molybdenum (Mo)[a]	EPA 1640
Nickel (Ni)[a]	EPA 1640
Selenium (Se)[a]	EPA 1640
Silver (Ag)[a]	EPA 1640
Thallium (Tl)[a]	EPA 1640
Tin (Sn)[a]	EPA 1640
Titanium (Ti)[a]	EPA 1640
Vanadium (V)[a]	EPA 1640
Zinc (Zn)[a]	EPA 1640
Polycyclic Aromatic Hydrocarbons (PAHs)[b]	EPA 625
Total Suspended Solids (TSS)	EPA 2540D

Notes:

[a] Metals will be analyzed for total and dissolved fractions. Filtering for the dissolved fraction will occur in the field immediately after collection.

[b] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Di benzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

EPA - U.S. Environmental Protection Agency
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-017

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 9/13/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 2	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 18:00 ☐ Other:	☐ Other :	☐ None 6 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

Sediment

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 04, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-002

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/11/2018. A total of 4 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-002

2018 Regional Harbor Monitoring Program Total Samples: 4

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56380	B18-10065		7/10/2018	9:14	Sediment
56381	B18-10066		7/10/2018	10:38	Sediment
56382	B18-10067		7/10/2018	11:55	Sediment
56383	B18-10068		7/10/2018	13:45	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	75			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	72			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	82			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	66			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.321	0.198	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.1	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.195	0.179	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**10:38**	**Received: 11-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	74			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	71			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	73			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	71			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	0.292	0.2	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	3.76	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.45	0.187	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.744	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.434	0.192	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.579	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	55			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	54			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	59			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	54			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.88	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	75			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	73			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	79			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.95	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56380-R1	**B18-10065**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	50.7	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.4	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	65.3	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.05	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.81	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	626	0.016	0.05	NA		E-14066	24-Dec-18	06-Feb-19	
Sample ID: 56381-R1	**B18-10066**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**10:38**	**Received: 11-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	110	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	13.5	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	43	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.16	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.18	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	871	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	
Sample ID: 56382-R1	**B18-10067**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	234	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	16.3	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	37	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.2	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.26	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	958	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56383-R1	**B18-10068**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	36.9	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	12.8	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	57.7	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.07	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	815	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**			**Matrix: Sediment**		**Sampled: 10-Jul-18**	**9:14**		**Received: 11-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	14200	1	5	NA		E-14066	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.168	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.16	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	117	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.327	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.158	0.0025	0.005	NA		E-14066	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	54.6	0.0025	0.005	NA		E-14066	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	142	0.0025	0.005	NA		E-14066	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	13900	1	5	NA		E-14066	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	9.28	0.0025	0.005	NA		E-14066	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0212	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 16:50
Nickel (Ni)	EPA 6020	µg/dry g	12.9	0.01	0.02	NA		E-14066	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.513	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0953	0.01	0.02	NA		E-14066	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	112	0.025	0.05	NA		E-14066	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**10:38**	**Received: 11-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	38800	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.416	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	11.2	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	181	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	1.04	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.788	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	70.6	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	461	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	32700	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	22.7	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0874	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 16:55
Nickel (Ni)	EPA 6020	µg/dry g	25.6	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.973	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.319	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	386	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**			**Matrix: Sediment**		**Sampled: 10-Jul-18**	**11:55**	**Received: 11-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	41000	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.397	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	15.9	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	173	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	1.07	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.452	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	85.3	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	664	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	38100	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	30	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0843	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 16:57
Nickel (Ni)	EPA 6020	µg/dry g	28.2	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.996	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.339	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	616	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	21600	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.259	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.86	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	119	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.535	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.52	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	38.6	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	93.6	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	20500	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	10.2	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0272	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 17:00
Nickel (Ni)	EPA 6020	µg/dry g	15.1	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.71	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.144	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	162	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.931	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0251	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0122	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.919	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**10:38**	**Received: 11-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00666	0.0018	0.0036	NA		E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.08	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0563	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.04	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	3.99	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00205	0.0018	0.0036	NA	J	E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.35	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0709	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0381	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	8.07	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**13:45**	**Received: 11-Jul-18**		
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00246	0.0018	0.0036	NA	J	E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.383	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0257	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0216	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.31	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**10:38**	**Received: 11-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	0.55	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18 9:14**			**Received: 11-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	20.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	14.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	7.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	4.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	4.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**			**Matrix: Sediment**			**Sampled: 10-Jul-18**	**10:38**	**Received: 11-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	8.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	18.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	4.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	11.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18 11:55**		**Received: 11-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	20.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	10.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	7.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	11	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18 13:45**			**Received: 11-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	18.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	12.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	8.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	10.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	11.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	7.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**9:14**	**Received: 11-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	0.226	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	0.286	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	0.241	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.403	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	0.33	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.541	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	0.516	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	0.528	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.591	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.373	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	0.122	0.073	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.521	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.215	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	0.348	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.0655	0.056	0.25	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**10:38**	**Received: 11-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.484	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	0.376	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.759	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	0.572	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	1.04	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.911	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.951	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	0.422	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**11:55**	**Received: 11-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.303	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	0.343	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.503	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	0.532	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	0.552	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.685	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.481	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.707	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	0.465	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**13:45**	**Received: 11-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.21	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	0.204	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.294	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.207	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.236	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	81			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	101			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.672	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.81	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.162	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	6.79	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**10:38**	**Received: 11-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	64			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	96			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	1.35	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.22	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.338	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	53.4	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	73			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	81			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	1.05	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.768	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.23	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	12.5	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**13:45**	**Received: 11-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	79			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	107			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.477	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.752	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.168	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.34	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**9:14**	**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	64			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	89			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	114			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	92			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	32			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.605	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.898	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.96	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.751	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.7	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.292	0.078	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.27	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.856	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	20	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	9.12	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	12.1	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	10.6	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	13.9	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	11	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.462	0.092	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	10.8	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.16	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.519	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	22.8	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.775	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	23.9	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.5	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	30.3	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	7.89	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	23.2	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**			**Matrix: Sediment**		**Sampled: 10-Jul-18 10:38**			**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	75			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	88			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	100			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	88			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	52			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.2	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.9	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.92	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.95	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.32	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	1.17	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	1.37	0.058	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	3.59	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	57.6	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	32.9	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	54.1	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	48.1	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	70.5	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	41	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.04	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	36.9	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	18.6	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.01	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	69.5	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.92	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	87.5	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	7.76	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	33.6	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	21.5	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	76.9	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**11:55**	**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	65			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	85			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	67			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	42			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.16	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.3	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.51	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.05	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	6.52	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	2.68	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.448	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	3.05	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	36	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	15.5	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	23.8	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	18.7	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	26	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	19.6	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.45	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	18.6	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	7.9	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.67	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	44.8	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	3.48	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	50.5	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	8.67	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	16.3	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	26.4	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	39.4	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**			**Matrix: Sediment**		**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	72			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	87			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	106			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	87			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	50			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.647	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.05	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.87	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.14	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.36	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.471	0.078	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.554	0.058	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	2.65	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	29.7	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	13	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	16.4	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	13.1	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	15.4	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	15.8	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.665	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	38.4	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	9.93	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.646	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	16.9	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.956	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	29.9	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	3.76	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	23.8	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	8.3	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	18.7	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56380-R1	**B18-10065**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**9:14**	**Received: 11-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.819	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56381-R1	**B18-10066**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**10:38**	**Received: 11-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	19.2	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.81	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	4.37	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	6.66	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56382-R1	**B18-10067**		**Matrix: Sediment**			**Sampled: 10-Jul-18**	**11:55**	**Received: 11-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	1.82	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.3	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	1.3	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	2.86	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56383-R1	**B18-10068**		**Matrix: Sediment**			**Sampled: 10-Jul-18**		**13:45**	**Received: 11-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	2.48	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.421	0.21	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**					**Prepared: 04-Jan-19**			**Analyzed: 04-Jan-19**	
56375-B1	QAQC Procedural Blank	C-41074	ND	0.05	0.1	mg/dry kg									
56375-BS1	QAQC Procedural Blank	C-41074	21.6	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS				
56375-BS2	QAQC Procedural Blank	C-41074	21.7	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS	0	30	PASS	
56380-MS1	B18-10065	C-41074	58.6	0.05	0.1	mg/dry kg	18.3	50.9	42	80 - 120%	FAIL				SH
56380-MS2	B18-10065	C-41074	58	0.05	0.1	mg/dry kg	17.8	50.9	40	80 - 120%	FAIL	5	30	PASS	SH
56380-R2	B18-10065	C-41074	51.1	0.05	0.1	mg/dry kg						1	30	PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**					**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**	
56375-B1	QAQC Procedural Blank	C-39070	ND	0.02	0.03	mg/dry kg									
56375-BS1	QAQC Procedural Blank	C-39070	2	0.02	0.03	mg/dry kg	1.83	0	109	80 - 120%	PASS				
56375-BS2	QAQC Procedural Blank	C-39070	1.91	0.02	0.03	mg/dry kg	1.83	0	104	80 - 120%	PASS	5	30	PASS	
56380-MS1	B18-10065	C-39070	12.1	0.02	0.03	mg/dry kg	1.41	10.6	106	80 - 120%	PASS				
56380-MS2	B18-10065	C-39070	12.3	0.02	0.03	mg/dry kg	1.42	10.6	120	80 - 120%	PASS	12	30	PASS	
56380-R2	B18-10065	C-39070	10.8	0.02	0.03	mg/dry kg						4	30	PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**					**Prepared: 31-Dec-18**			**Analyzed: 31-Dec-18**	
56375-B1	QAQC Procedural Blank	C-35147	ND	0.1	0.1	%									
56380-R2	B18-10065	C-35147	64.1	0.1	0.1	%						2	30	PASS	
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**					**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
56375-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight									
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**					**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
56375-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight									
56377-CRM1	QAQC CRM - SRM 1944	O-19048	4.56	0.01	0.01	% dry weight	4.4		104	80 - 120%	PASS				
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**					**Prepared: 24-Dec-18**			**Analyzed: 05-Feb-19**	
56375-B1	QAQC Procedural Blank	E-14066	ND	0.016	0.05	µg/dry g									
56375-BS1	QAQC Procedural Blank	E-14066	47.6	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS				
56375-BS2	QAQC Procedural Blank	E-14066	47.3	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56380-MS1	B18-10065	E-14066	2240	0.016	0.05	µg/dry g	1460	606	112	80 - 120%	PASS				
56380-MS2	B18-10065	E-14066	2270	0.016	0.05	µg/dry g	1460	606	114	80 - 120%	PASS	2	30	PASS	
56380-R2	B18-10065	E-14066	586	0.016	0.05	µg/dry g						7	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19	
(PCB030)	NA	86			% Recovery	100	86	50 - 123%	PASS			
(PCB112)	NA	86			% Recovery	100	86	53 - 129%	PASS			
(PCB198)	NA	96			% Recovery	100	96	51 - 131%	PASS			
(TCMX)	NA	74			% Recovery	100	74	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(PCB030)	NA	84			% Recovery	100	0	84	50 - 123% PASS			
(PCB112)	NA	87			% Recovery	100	0	87	53 - 129% PASS			
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131% PASS			
(TCMX)	NA	68			% Recovery	100	0	68	45 - 117% PASS			
2,4'-DDD	NA	468	0.267	0.5	ng/dry g	500	0	94	60 - 140% PASS			
2,4'-DDE	NA	447	0.2	0.5	ng/dry g	500	0	89	60 - 140% PASS			
2,4'-DDT	NA	504	0.194	0.5	ng/dry g	500	0	101	60 - 140% PASS			
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140% PASS			
4,4'-DDE	NA	452	0.193	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDMU	NA	463	0.223	0.5	ng/dry g	500	0	93	60 - 140% PASS			
4,4'-DDT	NA	649	0.128	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Aldrin	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140% PASS			
BHC-alpha	NA	426	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
BHC-beta	NA	456	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140% PASS			
BHC-gamma	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-alpha	NA	424	0.187	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-gamma	NA	475	0.179	0.5	ng/dry g	500	0	95	60 - 140% PASS			
cis-Nonachlor	NA	424	0.192	0.5	ng/dry g	500	0	85	60 - 140% PASS			
DCPA (Dacthal)	NA	510	5	10	ng/dry g	500	0	102	60 - 140% PASS			
Dicofol	NA	273	2.5	5	ng/dry g	500	0	55	60 - 140% FAIL			Q
Dieldrin	NA	428	0.1	0.2	ng/dry g	500	0	86	60 - 140% PASS			
Endosulfan Sulfate	NA	375	0.25	0.5	ng/dry g	500	0	75	60 - 140% PASS			
Endosulfan-I	NA	61.5	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endosulfan-II	NA	183	0.25	0.5	ng/dry g	500	0	37	60 - 140% FAIL			Q
Endrin	NA	543	0.25	0.5	ng/dry g	500	0	109	60 - 140% PASS			
Endrin Aldehyde	NA	58.9	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endrin Ketone	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Heptachlor	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	470	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Hexachlorobenzene	NA	392	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS			
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	FAIL			Q
Mirex	NA	445	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS			
Oxychlordane	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Perthane	NA	647	5	10	ng/dry g	500	0	129	60 - 140%	PASS			
trans-Nonachlor	NA	424	0.186	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
Toxaphene	NA	5530	10	20	ng/dry g	5000	0	111	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19			
(PCB030)	NA	86			% Recovery	100	0	86	50 - 123%	PASS	2	30	PASS	
(PCB112)	NA	89			% Recovery	100	0	89	53 - 129%	PASS	2	30	PASS	
(PCB198)	NA	96			% Recovery	100	0	96	51 - 131%	PASS	1	30	PASS	
(TCMX)	NA	73			% Recovery	100	0	73	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	475	0.267	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
2,4'-DDE	NA	464	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
2,4'-DDT	NA	522	0.194	0.5	ng/dry g	500	0	104	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140%	PASS	0	30	PASS	
4,4'-DDE	NA	461	0.193	0.5	ng/dry g	500	0	92	60 - 140%	PASS	2	30	PASS	
4,4'-DDMU	NA	475	0.223	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	651	0.128	0.5	ng/dry g	500	0	130	60 - 140%	PASS	0	30	PASS	
Aldrin	NA	501	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	2	30	PASS	
BHC-alpha	NA	439	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-beta	NA	469	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	430	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
BHC-gamma	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Chlordane-alpha	NA	444	0.187	0.5	ng/dry g	500	0	89	60 - 140%	PASS	5	30	PASS	
Chlordane-gamma	NA	488	0.179	0.5	ng/dry g	500	0	98	60 - 140%	PASS	3	30	PASS	
cis-Nonachlor	NA	440	0.192	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
DCPA (Dacthal)	NA	516	5	10	ng/dry g	500	0	103	60 - 140%	PASS	1	30	PASS	
Dicofol	NA	257	2.5	5	ng/dry g	500	0	51	60 - 140%	FAIL	8	30	PASS	Q
Dieldrin	NA	465	0.1	0.2	ng/dry g	500	0	93	60 - 140%	PASS	8	30	PASS	
Endosulfan Sulfate	NA	384	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	69.8	0.25	0.5	ng/dry g	500	0	14	60 - 140%	FAIL	15	30	PASS	Q
Endosulfan-II	NA	200	0.25	0.5	ng/dry g	500	0	40	60 - 140%	FAIL	8	30	PASS	Q
Endrin	NA	597	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	9	30	PASS	
Endrin Aldehyde	NA	65	0.25	0.5	ng/dry g	500	0	13	60 - 140%	FAIL	8	30	PASS	Q
Endrin Ketone	NA	459	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	3	30	PASS	
Heptachlor	NA	540	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
Hexachlorobenzene	NA	412	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	FAIL	0	30	PASS	Q
Mirex	NA	467	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
Oxychlordane	NA	437	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
Perthane	NA	642	5	10	ng/dry g	500	0	128	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	436	0.186	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Toxaphene	NA	5380	10	20	ng/dry g	5000	0	108	60 - 140%	PASS	3	30	PASS	
Sample ID: 56377-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(PCB030)	NA	88			% Recovery	100		88	33 - 149%	PASS				
(PCB112)	NA	92			% Recovery	100		92	49 - 120%	PASS				
(PCB198)	NA	42			% Recovery	100		42	35 - 123%	PASS				
(TCMX)	NA	87			% Recovery	100		87	37 - 138%	PASS				
2,4'-DDD	NA	35.3	0.267	0.5	ng/dry g	38		93	60 - 140%	PASS				
2,4'-DDE	NA	19.4	0.2	0.5	ng/dry g	19		102	60 - 140%	PASS				
4,4'-DDD	NA	87	0.198	0.5	ng/dry g	108		81	60 - 140%	PASS				
4,4'-DDE	NA	92.8	0.193	0.5	ng/dry g	86		108	60 - 140%	PASS				
4,4'-DDT	NA	154	0.128	0.5	ng/dry g	170		91	60 - 140%	PASS				
Chlordane-alpha	NA	18.9	0.187	0.5	ng/dry g	16.5		115	60 - 140%	PASS				
Chlordane-gamma	NA	23.9	0.179	0.5	ng/dry g	19		126	60 - 140%	PASS				
cis-Nonachlor	NA	3.85	0.192	0.5	ng/dry g	3.7		104	60 - 140%	PASS				
Hexachlorobenzene	NA	5.38	0.25	0.5	ng/dry g	6		90	60 - 140%	PASS				
trans-Nonachlor	NA	10.2	0.186	0.5	ng/dry g	8.2		124	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18			Analyzed: 05-Feb-19		
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	85 - 121%	PASS		
Antimony (Sb)	NA	2.12	0.025	0.05	µg/dry g	2	0	106	84 - 120%	PASS		
Arsenic (As)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	85 - 115%	PASS		
Barium (Ba)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	80 - 120%	PASS		
Beryllium (Be)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	80 - 120%	PASS		
Cadmium (Cd)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	86 - 122%	PASS		
Chromium (Cr)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	83 - 113%	PASS		
Copper (Cu)	NA	2.19	0.0025	0.005	µg/dry g	2	0	110	83 - 114%	PASS		
Iron (Fe)	NA	2	1	5	µg/dry g	2	0	100	85 - 115%	PASS		
Lead (Pb)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	85 - 118%	PASS		
Nickel (Ni)	NA	2.17	0.01	0.02	µg/dry g	2	0	109	83 - 113%	PASS		
Selenium (Se)	NA	2.16	0.025	0.05	µg/dry g	2	0	108	72 - 118%	PASS		
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	79 - 118%	PASS		
Zinc (Zn)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	86 - 116%	PASS		
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19			Analyzed: 08-Jan-19		
Mercury (Hg)	NA	1010	0.00001	0.00002	µg/dry g	1000	0	101	82 - 118%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18					Analyzed: 05-Feb-19		
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	85 - 121%	PASS	0	30	PASS	
Antimony (Sb)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	84 - 120%	PASS	1	30	PASS	
Arsenic (As)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	85 - 115%	PASS	0	30	PASS	
Barium (Ba)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	80 - 120%	PASS	1	30	PASS	
Beryllium (Be)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	80 - 120%	PASS	0	30	PASS	
Cadmium (Cd)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	86 - 122%	PASS	1	30	PASS	
Chromium (Cr)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	83 - 113%	PASS	0	30	PASS	
Copper (Cu)	NA	2.17	0.0025	0.005	µg/dry g	2	0	109	83 - 114%	PASS	2	30	PASS	
Iron (Fe)	NA	1.93	1	5	µg/dry g	2	0	96	85 - 115%	PASS	4	30	PASS	
Lead (Pb)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	85 - 118%	PASS	0	30	PASS	
Nickel (Ni)	NA	2.16	0.01	0.02	µg/dry g	2	0	108	83 - 113%	PASS	0	30	PASS	
Selenium (Se)	NA	2.17	0.025	0.05	µg/dry g	2	0	109	72 - 118%	PASS	0	30	PASS	
Silver (Ag)	NA	0.204	0.01	0.02	µg/dry g	0.2	0	102	79 - 118%	PASS	0	30	PASS	
Zinc (Zn)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	86 - 116%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19					Analyzed: 08-Jan-19		
Mercury (Hg)	NA	993	0.00001	0.00002	µg/dry g	1000	0	99	82 - 118%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56376-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	11100	1	5	µg/dry g	10100		110	42 - 124%		PASS	
Antimony (Sb)	NA	130	0.025	0.05	µg/dry g	145		90	10 - 137%		PASS	
Arsenic (As)	NA	180	0.025	0.05	µg/dry g	171		105	66 - 122%		PASS	
Beryllium (Be)	NA	101	0.025	0.05	µg/dry g	102		99	72 - 120%		PASS	
Cadmium (Cd)	NA	218	0.0025	0.005	µg/dry g	225		97	70 - 117%		PASS	
Chromium (Cr)	NA	158	0.0025	0.005	µg/dry g	144		110	66 - 123%		PASS	
Copper (Cu)	NA	175	0.0025	0.005	µg/dry g	174		101	71 - 119%		PASS	
Iron (Fe)	NA	21200	1	5	µg/dry g	15000		141	33 - 155%		PASS	
Lead (Pb)	NA	109	0.0025	0.005	µg/dry g	111		98	71 - 129%		PASS	
Nickel (Ni)	NA	95.9	0.01	0.02	µg/dry g	98.3		98	65 - 121%		PASS	
Selenium (Se)	NA	226	0.025	0.05	µg/dry g	206		110	64 - 122%		PASS	
Silver (Ag)	NA	43	0.01	0.02	µg/dry g	45.5		95	66 - 124%		PASS	
Zinc (Zn)	NA	212	0.025	0.05	µg/dry g	207		102	67 - 125%		PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	9.75	0.00001	0.00002	µg/dry g	12		81	57 - 133%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56380-MS1	**B18-10065**				**Matrix: Sediment**			**Sampled: 10-Jul-18**				**Received: 11-Jul-18**	
	Method: EPA 6020				Batch ID: E-14066			Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	14500	1	5	µg/dry g	58.4	13400	1884	70 - 130%	FAIL			SH
Antimony (Sb)	NA	62.5	0.025	0.05	µg/dry g	58.4	0.167	107	70 - 130%	PASS			
Arsenic (As)	NA	71.5	0.025	0.05	µg/dry g	58.4	5.83	112	70 - 130%	PASS			
Barium (Ba)	NA	179	0.025	0.05	µg/dry g	58.4	109	120	70 - 130%	PASS			
Beryllium (Be)	NA	62.2	0.025	0.05	µg/dry g	58.4	0.345	106	70 - 130%	PASS			
Cadmium (Cd)	NA	60.6	0.0025	0.005	µg/dry g	58.4	0.152	104	70 - 130%	PASS			
Chromium (Cr)	NA	120	0.0025	0.005	µg/dry g	58.4	43.3	131	70 - 130%	FAIL			NH
Copper (Cu)	NA	201	0.0025	0.005	µg/dry g	58.4	139	106	70 - 130%	PASS			
Iron (Fe)	NA	14200	1	5	µg/dry g	58.4	13400	1370	70 - 130%	FAIL			SH
Lead (Pb)	NA	64.6	0.0025	0.005	µg/dry g	58.4	9.15	95	70 - 130%	PASS			
Nickel (Ni)	NA	76.9	0.01	0.02	µg/dry g	58.4	12.5	110	70 - 130%	PASS			
Selenium (Se)	NA	69.5	0.025	0.05	µg/dry g	58.4	0.494	118	70 - 130%	PASS			
Silver (Ag)	NA	6	0.01	0.02	µg/dry g	5.84	0.0923	101	70 - 130%	PASS			
Zinc (Zn)	NA	178	0.025	0.05	µg/dry g	58.4	109	118	70 - 130%	PASS			
	Method: EPA 245.7				Batch ID: E-15083			Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	0.194	0.00001	0.00002	µg/dry g	0.146	0.0211	118	70 - 130%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56380-MS2	**B18-10065**				**Matrix: Sediment**			**Sampled: 10-Jul-18**				**Received: 11-Jul-18**		
	Method: EPA 6020				Batch ID: E-14066			Prepared: 24-Dec-18				Analyzed: 05-Feb-19		
Aluminum (Al)	NA	14700	1	5	µg/dry g	58.4	13400	2226	70 - 130%	FAIL	17	30	PASS	SH
Antimony (Sb)	NA	63.6	0.025	0.05	µg/dry g	58.4	0.167	109	70 - 130%	PASS	2	30	PASS	
Arsenic (As)	NA	73.1	0.025	0.05	µg/dry g	58.4	5.83	115	70 - 130%	PASS	3	30	PASS	
Barium (Ba)	NA	183	0.025	0.05	µg/dry g	58.4	109	127	70 - 130%	PASS	6	30	PASS	
Beryllium (Be)	NA	64.3	0.025	0.05	µg/dry g	58.4	0.345	110	70 - 130%	PASS	4	30	PASS	
Cadmium (Cd)	NA	61.6	0.0025	0.005	µg/dry g	58.4	0.152	105	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	122	0.0025	0.005	µg/dry g	58.4	43.3	135	70 - 130%	FAIL	3	30	PASS	NH
Copper (Cu)	NA	207	0.0025	0.005	µg/dry g	58.4	139	116	70 - 130%	PASS	9	30	PASS	
Iron (Fe)	NA	14500	1	5	µg/dry g	58.4	13400	1884	70 - 130%	FAIL	32	30	FAIL	SH
Lead (Pb)	NA	66	0.0025	0.005	µg/dry g	58.4	9.15	97	70 - 130%	PASS	2	30	PASS	
Nickel (Ni)	NA	78.4	0.01	0.02	µg/dry g	58.4	12.5	113	70 - 130%	PASS	3	30	PASS	
Selenium (Se)	NA	71.7	0.025	0.05	µg/dry g	58.4	0.494	122	70 - 130%	PASS	3	30	PASS	
Silver (Ag)	NA	6.18	0.01	0.02	µg/dry g	5.84	0.0923	104	70 - 130%	PASS	3	30	PASS	
Zinc (Zn)	NA	182	0.025	0.05	µg/dry g	58.4	109	125	70 - 130%	PASS	6	30	PASS	
	Method: EPA 245.7				Batch ID: E-15083			Prepared: 08-Jan-19				Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.191	0.00001	0.00002	µg/dry g	0.146	0.0211	116	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56380-R2	**B18-10065**				**Matrix: Sediment**		**Sampled: 10-Jul-18**			**Received: 11-Jul-18**		
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18			Analyzed: 06-Feb-19		
Aluminum (Al)	NA	12600	1	5	µg/dry g					12	30 PASS	
Antimony (Sb)	NA	0.165	0.025	0.05	µg/dry g					2	30 PASS	
Arsenic (As)	NA	5.5	0.025	0.05	µg/dry g					11	30 PASS	
Barium (Ba)	NA	101	0.025	0.05	µg/dry g					15	30 PASS	
Beryllium (Be)	NA	0.363	0.025	0.05	µg/dry g					10	30 PASS	
Cadmium (Cd)	NA	0.146	0.0025	0.005	µg/dry g					8	30 PASS	
Chromium (Cr)	NA	32	0.0025	0.005	µg/dry g					52	30 FAIL	NH
Copper (Cu)	NA	136	0.0025	0.005	µg/dry g					4	30 PASS	
Iron (Fe)	NA	12900	1	5	µg/dry g					7	30 PASS	
Lead (Pb)	NA	9.01	0.0025	0.005	µg/dry g					3	30 PASS	
Nickel (Ni)	NA	12	0.01	0.02	µg/dry g					7	30 PASS	
Selenium (Se)	NA	0.476	0.025	0.05	µg/dry g					7	30 PASS	
Silver (Ag)	NA	0.0893	0.01	0.02	µg/dry g					7	30 PASS	
Zinc (Zn)	NA	106	0.025	0.05	µg/dry g					6	30 PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19			Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.021	0.00001	0.00002	µg/dry g					1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 08-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00866	0.0018	0.0036	µmol/dry g	0.0089	0	97	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0171	0.0062	0.0124	µmol/dry g	0.0157	0	109	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00486	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0179	0.0033	0.0066	µmol/dry g	0.017	0	105	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000854	0.0047	0.0094	µmol/dry g	0.0009	0	92	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0157	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS				
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00904	0.0018	0.0036	µmol/dry g	0.0089	0	102	70 - 130%	PASS	5	30	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	3	30	PASS	
Lead (Pb) - SEM	NA	0.00486	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS	0	30	PASS	
Nickel (Ni) - SEM	NA	0.0172	0.0033	0.0066	µmol/dry g	0.017	0	101	70 - 130%	PASS	4	30	PASS	
Silver (Ag) - SEM	NA	0.000881	0.0047	0.0094	µmol/dry g	0.0009	0	95	70 - 130%	PASS	3	30	PASS	
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56380-MS1	**B18-10065**				**Matrix: Sediment**		**Sampled: 10-Jul-18**			**Received: 11-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19			Analyzed: 08-Jan-19			
Cadmium (Cd) - SEM	NA	0.184	0.0018	0.0036	µmol/dry g	0.177	0	104	70 - 130%	PASS			
Copper (Cu) - SEM	NA	1.24	0.0062	0.0124	µmol/dry g	0.314	0.943	95	70 - 130%	PASS			
Lead (Pb) - SEM	NA	0.118	0.0002	0.0004	µmol/dry g	0.0961	0.0252	97	70 - 130%	PASS			
Nickel (Ni) - SEM	NA	0.348	0.0033	0.0066	µmol/dry g	0.339	0.0117	99	70 - 130%	PASS			
Silver (Ag) - SEM	NA	0.0147	0.0047	0.0094	µmol/dry g	0.0185	0	79	70 - 130%	PASS			
Zinc (Zn) - SEM	NA	1.24	0.0015	0.003	µmol/dry g	0.305	0.931	101	70 - 130%	PASS			
Sample ID: 56380-MS2	**B18-10065**				**Matrix: Sediment**		**Sampled: 10-Jul-18**			**Received: 11-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19			Analyzed: 08-Jan-19			
Cadmium (Cd) - SEM	NA	0.186	0.0018	0.0036	µmol/dry g	0.177	0	105	70 - 130%	PASS	1	30	PASS
Copper (Cu) - SEM	NA	1.26	0.0062	0.0124	µmol/dry g	0.314	0.943	101	70 - 130%	PASS	6	30	PASS
Lead (Pb) - SEM	NA	0.117	0.0002	0.0004	µmol/dry g	0.0961	0.0252	96	70 - 130%	PASS	1	30	PASS
Nickel (Ni) - SEM	NA	0.351	0.0033	0.0066	µmol/dry g	0.339	0.0117	100	70 - 130%	PASS	1	30	PASS
Silver (Ag) - SEM	NA	0.014	0.0047	0.0094	µmol/dry g	0.0185	0	76	70 - 130%	PASS	4	30	PASS
Zinc (Zn) - SEM	NA	1.25	0.0015	0.003	µmol/dry g	0.305	0.931	105	70 - 130%	PASS	4	30	PASS
Sample ID: 56380-R2	**B18-10065**				**Matrix: Sediment**		**Sampled: 10-Jul-18**			**Received: 11-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19			Analyzed: 08-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS
Copper (Cu) - SEM	NA	0.954	0.0062	0.0124	µmol/dry g						2	30	PASS
Lead (Pb) - SEM	NA	0.0254	0.0002	0.0004	µmol/dry g						1	30	PASS
Nickel (Ni) - SEM	NA	0.0113	0.0033	0.0066	µmol/dry g						8	30	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS
Zinc (Zn) - SEM	NA	0.942	0.0015	0.003	µmol/dry g						2	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 15-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 15-Jan-19	
Fipronil	NA	528	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Fipronil Desulfinyl	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS			
Fipronil Sulfide	NA	472	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Fipronil Sulfone	NA	455	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS			
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 15-Jan-19	
Fipronil	NA	523	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	1	30	PASS
Fipronil Desulfinyl	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS
Fipronil Sulfide	NA	465	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	1	30	PASS
Fipronil Sulfone	NA	431	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	6	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1106		Prepared: 28-Dec-18			Analyzed: 28-Dec-18		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56380-R2	**B18-10065**				**Matrix: Sediment**		**Sampled: 10-Jul-18**			**Received: 11-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1106		Prepared: 28-Dec-18			Analyzed: 28-Dec-18		
Gravel	NA	ND	0.1	0.1	%					0	20	PASS
Phi 0.0	NA	ND	0.1	0.1	%					0	20	PASS
Phi 0.5	NA	ND	0.1	0.1	%					0	20	PASS
Phi 1.0	NA	ND	0.1	0.1	%					0	20	PASS
Phi 1.5	NA	20.6	0.1	0.1	%					1	20	PASS
Phi 10.0	NA	0.3	0.1	0.1	%					0	20	PASS
Phi 10.5	NA	0.9	0.1	0.1	%					11	20	PASS
Phi 11.0	NA	ND	0.1	0.1	%					0	20	PASS
Phi 11.5	NA	ND	0.1	0.1	%					0	20	PASS
Phi 12.0	NA	ND	0.1	0.1	%					0	20	PASS
Phi 12.5	NA	ND	0.1	0.1	%					0	20	PASS
Phi 13.0	NA	ND	0.1	0.1	%					0	20	PASS
Phi 13.5	NA	ND	0.1	0.1	%					0	20	PASS
Phi 2.0	NA	15.7	0.1	0.1	%					5	20	PASS
Phi 2.5	NA	5.6	0.1	0.1	%					6	20	PASS
Phi 3.0	NA	3.9	0.1	0.1	%					3	20	PASS
Phi 3.5	NA	4.3	0.1	0.1	%					11	20	PASS
Phi 4.0	NA	5.1	0.1	0.1	%					2	20	PASS
Phi 4.5	NA	5.8	0.1	0.1	%					10	20	PASS
Phi 5.0	NA	7.4	0.1	0.1	%					5	20	PASS
Phi 5.5	NA	4.8	0.1	0.1	%					8	20	PASS
Phi 6.0	NA	7.2	0.1	0.1	%					4	20	PASS
Phi 6.5	NA	4.1	0.1	0.1	%					0	20	PASS
Phi 7.0	NA	4.6	0.1	0.1	%					0	20	PASS
Phi 7.5	NA	2.4	0.1	0.1	%					0	20	PASS
Phi 8.0	NA	2.6	0.1	0.1	%					4	20	PASS
Phi 8.5	NA	1.9	0.1	0.1	%					11	20	PASS
Phi 9.0	NA	1.6	0.1	0.1	%					0	20	PASS
Phi 9.5	NA	0.7	0.1	0.1	%					0	20	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	36.3	0.1	0.2	ng/dry g	50	0	73	60 - 140%		PASS	
PCB005	NA	42.1	0.1	0.2	ng/dry g	50	0	84	60 - 140%		PASS	
PCB008	NA	43.7	0.017	0.2	ng/dry g	50	0	87	60 - 140%		PASS	
PCB015	NA	46.9	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB018	NA	47.5	0.029	0.2	ng/dry g	50	0	95	60 - 140%		PASS	
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%		PASS	
PCB028	NA	46.9	0.023	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB029	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB031	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB033	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB037	NA	50.3	0.06	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB044	NA	50.3	0.028	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB049	NA	49.3	0.036	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB052	NA	50.7	0.012	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB056(060)	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB066	NA	54	0.027	0.2	ng/dry g	50	0	108	60 - 140%		PASS	
PCB070	NA	55	0.023	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB074	NA	52.5	0.021	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB077	NA	55	0.018	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB081	NA	53.7	0.084	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB087	NA	51.9	0.081	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB095	NA	48.8	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB097	NA	56.2	0.1	0.2	ng/dry g	50	0	112	60 - 140%		PASS	
PCB099	NA	50.8	0.028	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB101	NA	52	0.027	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB105	NA	45.3	0.047	0.2	ng/dry g	50	0	91	60 - 140%		PASS	
PCB110	NA	51.7	0.074	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB114	NA	51.1	0.072	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB118	NA	50.8	0.069	0.2	ng/dry g	50	0	102	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	52	0.071	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB123	NA	50.1	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB126	NA	48	0.086	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB128	NA	47.8	0.081	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB137	NA	44.3	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB138	NA	47.5	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB141	NA	44.5	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB149	NA	47.2	0.092	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB151	NA	55.4	0.073	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB153	NA	49.1	0.065	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB156	NA	54.7	0.089	0.2	ng/dry g	50	0	109	60 - 140%	PASS			
PCB157	NA	46.4	0.103	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB158	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB167	NA	52.1	0.049	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB168+132	NA	90.8	0.094	0.2	ng/dry g	100	0	91	60 - 140%	PASS			
PCB169	NA	56.5	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS			
PCB170	NA	48.3	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB174	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB177	NA	55.4	0.085	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB180	NA	51.5	0.154	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB183	NA	49.2	0.056	0.25	ng/dry g	50	0	98	60 - 140%	PASS			
PCB187	NA	53.4	0.168	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB189	NA	49.5	0.109	0.25	ng/dry g	50	0	99	60 - 140%	PASS			
PCB194	NA	54.8	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB195	NA	48.3	0.093	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB199(200)	NA	48.7	0.12	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB201	NA	44.3	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB206	NA	47.8	0.155	0.25	ng/dry g	50	0	96	60 - 140%	PASS			
PCB209	NA	50.1	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
PCB003	NA	38.8	0.1	0.2	ng/dry g	50	0	78	60 - 140%	PASS	7	30	PASS
PCB005	NA	44.2	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	5	30	PASS
PCB008	NA	44.5	0.017	0.2	ng/dry g	50	0	89	60 - 140%	PASS	2	30	PASS
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	7	30	PASS
PCB018	NA	47.8	0.029	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30	PASS
PCB027	NA	48.3	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30	PASS
PCB028	NA	47.4	0.023	0.2	ng/dry g	50	0	95	60 - 140%	PASS	1	30	PASS
PCB029	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS
PCB031	NA	49.9	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS
PCB037	NA	51.2	0.06	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30	PASS
PCB044	NA	52.6	0.028	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS
PCB049	NA	52.3	0.036	0.2	ng/dry g	50	0	105	60 - 140%	PASS	6	30	PASS
PCB052	NA	52.7	0.012	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS
PCB056(060)	NA	51.9	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	4	30	PASS
PCB066	NA	54.6	0.027	0.2	ng/dry g	50	0	109	60 - 140%	PASS	1	30	PASS
PCB070	NA	57	0.023	0.2	ng/dry g	50	0	114	60 - 140%	PASS	4	30	PASS
PCB074	NA	53.1	0.021	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS
PCB077	NA	55.6	0.018	0.2	ng/dry g	50	0	111	60 - 140%	PASS	1	30	PASS
PCB081	NA	54.2	0.084	0.2	ng/dry g	50	0	108	60 - 140%	PASS	1	30	PASS
PCB087	NA	54.3	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	5	30	PASS
PCB095	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	5	30	PASS
PCB097	NA	56	0.1	0.2	ng/dry g	50	0	112	60 - 140%	PASS	0	30	PASS
PCB099	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS	1	30	PASS
PCB101	NA	51.9	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	0	30	PASS
PCB105	NA	46	0.047	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS
PCB110	NA	51.2	0.074	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30	PASS
PCB114	NA	51	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS	0	30	PASS
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.6	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	0	30	PASS	
PCB126	NA	49.2	0.086	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB128	NA	49	0.081	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB137	NA	47.4	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB138	NA	47.3	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB141	NA	45.5	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB149	NA	49.2	0.092	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS	
PCB151	NA	55.1	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	1	30	PASS	
PCB153	NA	50.3	0.065	0.2	ng/dry g	50	0	101	60 - 140%	PASS	3	30	PASS	
PCB156	NA	56.5	0.089	0.2	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB157	NA	47.4	0.103	0.2	ng/dry g	50	0	95	60 - 140%	PASS	2	30	PASS	
PCB158	NA	48.2	0.074	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30	PASS	
PCB167	NA	52.3	0.049	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB168+132	NA	93.4	0.094	0.2	ng/dry g	100	0	93	60 - 140%	PASS	2	30	PASS	
PCB169	NA	56.3	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS	0	30	PASS	
PCB170	NA	48.7	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS	0	30	PASS	
PCB174	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	
PCB177	NA	57.9	0.085	0.25	ng/dry g	50	0	116	60 - 140%	PASS	4	30	PASS	
PCB180	NA	53.9	0.154	0.25	ng/dry g	50	0	108	60 - 140%	PASS	5	30	PASS	
PCB183	NA	51.1	0.056	0.25	ng/dry g	50	0	102	60 - 140%	PASS	4	30	PASS	
PCB187	NA	53.2	0.168	0.25	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS	
PCB189	NA	51.3	0.109	0.25	ng/dry g	50	0	103	60 - 140%	PASS	4	30	PASS	
PCB194	NA	55.1	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS	
PCB195	NA	51.5	0.093	0.25	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS	
PCB199(200)	NA	49.6	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	2	30	PASS	
PCB201	NA	47.2	0.104	0.25	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PCB203	NA	49.4	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	1	30	PASS	
PCB206	NA	52.6	0.155	0.25	ng/dry g	50	0	105	60 - 140%	PASS	9	30	PASS	
PCB209	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56377-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**					**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 25-Jan-19	
PCB008	NA	25.5	0.017	0.2	ng/dry g	22.3		114	60 - 140%	PASS			
PCB018	NA	43.9	0.029	0.2	ng/dry g	51		86	60 - 140%	PASS			
PCB028	NA	68	0.023	0.2	ng/dry g	80.8		84	60 - 140%	PASS			
PCB044	NA	39.9	0.028	0.2	ng/dry g	60.2		66	60 - 140%	PASS			
PCB049	NA	43.8	0.036	0.2	ng/dry g	53		83	60 - 140%	PASS			
PCB052	NA	60.8	0.012	0.2	ng/dry g	79.4		77	60 - 140%	PASS			
PCB066	NA	45.1	0.027	0.2	ng/dry g	71.9		63	60 - 140%	PASS			
PCB087	NA	19.9	0.081	0.2	ng/dry g	29.9		67	60 - 140%	PASS			
PCB099	NA	22.6	0.028	0.2	ng/dry g	37.5		60	60 - 140%	PASS			
PCB101	NA	55.8	0.027	0.2	ng/dry g	73.4		76	60 - 140%	PASS			
PCB105	NA	8.68	0.047	0.2	ng/dry g	24.5		35	60 - 140%	FAIL			1
PCB110	NA	44.1	0.074	0.2	ng/dry g	63.5		69	60 - 140%	PASS			
PCB118	NA	32.5	0.069	0.2	ng/dry g	58		56	60 - 140%	FAIL			1
PCB128	NA	1.62	0.081	0.2	ng/dry g	8.47		19	60 - 140%	FAIL			1
PCB138	NA	51.3	0.057	0.2	ng/dry g	62.1		83	60 - 140%	PASS			
PCB149	NA	37.8	0.092	0.2	ng/dry g	49.7		76	60 - 140%	PASS			
PCB151	NA	11.7	0.073	0.2	ng/dry g	16.9		69	60 - 140%	PASS			
PCB153	NA	51.3	0.065	0.2	ng/dry g	74		69	60 - 140%	PASS			
PCB156	NA	1.81	0.089	0.2	ng/dry g	6.52		28	60 - 140%	FAIL			1
PCB170	NA	19.9	0.118	0.25	ng/dry g	22.6		88	60 - 140%	PASS			
PCB180	NA	30.8	0.154	0.25	ng/dry g	44.3		70	60 - 140%	PASS			
PCB183	NA	9.96	0.056	0.25	ng/dry g	12.2		82	60 - 140%	PASS			
PCB187	NA	20.6	0.168	0.25	ng/dry g	25.1		82	60 - 140%	PASS			
PCB194	NA	9.07	0.164	0.25	ng/dry g	11.2		81	60 - 140%	PASS			
PCB195	NA	3.28	0.093	0.25	ng/dry g	3.75		86	60 - 140%	PASS			
PCB206	NA	4.85	0.155	0.25	ng/dry g	9.21		53	60 - 140%	FAIL			1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
(DFPBDE)	NA	109			% Recovery	100	109	63 - 146%	PASS			
(FTBDE)	NA	95			% Recovery	100	95	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
(DFPBDE)	NA	111			% Recovery	100	0	111	63 - 146% PASS			
(FTBDE)	NA	96			% Recovery	100	0	96	53 - 138% PASS			
PBDE017	NA	55	0.05	0.1	ng/dry g	50	0	110	60 - 140% PASS			
PBDE028	NA	59.6	0.05	0.1	ng/dry g	50	0	119	60 - 140% PASS			
PBDE047	NA	57.6	0.05	0.1	ng/dry g	50	0	115	60 - 140% PASS			
PBDE049	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140% PASS			
PBDE066	NA	62	0.05	0.1	ng/dry g	50	0	124	60 - 140% PASS			
PBDE085	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140% PASS			
PBDE099	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140% PASS			
PBDE100	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140% PASS			
PBDE138	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140% PASS			
PBDE153	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140% PASS			
PBDE154	NA	49.2	0.05	0.1	ng/dry g	50	0	98	60 - 140% PASS			
PBDE183	NA	41.1	0.05	0.1	ng/dry g	50	0	82	60 - 140% PASS			
PBDE190	NA	29.3	0.05	0.1	ng/dry g	50	0	59	60 - 140% FAIL			Q
PBDE209	NA	58	0.05	0.1	ng/dry g	250	0	23	60 - 140% FAIL			Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
(DFPBDE)	NA	109			% Recovery	100	0	109	63 - 146%	PASS	2	30	PASS	
(FTBDE)	NA	96			% Recovery	100	0	96	53 - 138%	PASS	0	30	PASS	
PBDE017	NA	55.8	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	2	30	PASS	
PBDE028	NA	58.3	0.05	0.1	ng/dry g	50	0	117	60 - 140%	PASS	2	30	PASS	
PBDE047	NA	60.7	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	5	30	PASS	
PBDE049	NA	55.6	0.05	0.1	ng/dry g	50	0	111	60 - 140%	PASS	0	30	PASS	
PBDE066	NA	61.7	0.05	0.1	ng/dry g	50	0	123	60 - 140%	PASS	1	30	PASS	
PBDE085	NA	60.3	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	1	30	PASS	
PBDE099	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140%	PASS	7	30	PASS	
PBDE100	NA	57.8	0.05	0.1	ng/dry g	50	0	116	60 - 140%	PASS	3	30	PASS	
PBDE138	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS	
PBDE153	NA	50.7	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30	PASS	
PBDE154	NA	57.5	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS	16	30	PASS	
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS	10	30	PASS	
PBDE190	NA	33.2	0.05	0.1	ng/dry g	50	0	66	60 - 140%	PASS	11	30	PASS	
PBDE209	NA	61.8	0.05	0.1	ng/dry g	250	0	25	60 - 140%	FAIL	8	30	PASS	Q
Sample ID: 56377-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
(DFPBDE)	NA	69			% Recovery	100		69	60 - 140%	PASS				
(FTBDE)	NA	127			% Recovery	100		127	60 - 140%	PASS				
PBDE047	NA	2.38	0.05	0.1	ng/dry g	1.72		138	60 - 140%	PASS				
PBDE099	NA	2.47	0.05	0.1	ng/dry g	1.98		124	60 - 140%	PASS				
PBDE100	NA	0.541	0.05	0.1	ng/dry g	0.447		135	60 - 140%	PASS				
PBDE153	NA	3.93	0.05	0.1	ng/dry g	6.44		61	60 - 140%	PASS				
PBDE154	NA	0.641	0.05	0.1	ng/dry g	1.06		60	60 - 140%	PASS				
PBDE183	NA	19.5	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS				
PBDE209	NA	69.1	0.05	0.1	ng/dry g	93.5		74	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19	
(d10-Acenaphthene)	NA	74			% Recovery	100	74	50 - 112%	PASS			
(d10-Phenanthrene)	NA	98			% Recovery	100	98	59 - 121%	PASS			
(d12-Chrysene)	NA	117			% Recovery	100	117	52 - 144%	PASS			
(d12-Perylene)	NA	91			% Recovery	100	91	50 - 150%	PASS			
(d8-Naphthalene)	NA	56			% Recovery	100	56	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	69			% Recovery	100	0	69	50 - 112% PASS			
(d10-Phenanthrene)	NA	101			% Recovery	100	0	101	59 - 121% PASS			
(d12-Chrysene)	NA	128			% Recovery	100	0	128	52 - 144% PASS			
(d12-Perylene)	NA	93			% Recovery	100	0	93	50 - 150% PASS			
(d8-Naphthalene)	NA	44			% Recovery	100	0	44	31 - 106% PASS			
1,6,7-Trimethylnapthalene	NA	367	0.059	0.5	ng/dry g	500	0	73	60 - 140% PASS			
1-Methylnaphthalene	NA	245	0.084	0.5	ng/dry g	500	0	49	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	605	0.076	0.5	ng/dry g	500	0	121	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	293	0.065	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
2-Methylnaphthalene	NA	250	0.106	0.5	ng/dry g	500	0	50	60 - 140% FAIL			Q
Acenaphthene	NA	300	0.078	0.5	ng/dry g	500	0	60	60 - 140% PASS			
Acenaphthylene	NA	293	0.058	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
Anthracene	NA	423	0.046	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Benz[a]anthracene	NA	747	0.107	0.5	ng/dry g	500	0	149	60 - 140% FAIL			Q
Benzo[a]pyrene	NA	443	0.106	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Benzo[b]fluoranthene	NA	568	0.063	0.5	ng/dry g	500	0	114	60 - 140% PASS			
Benzo[e]pyrene	NA	516	0.098	0.5	ng/dry g	500	0	103	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	459	0.093	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Benzo[k]fluoranthene	NA	484	0.111	0.5	ng/dry g	500	0	97	60 - 140% PASS			
Biphenyl	NA	275	0.092	0.5	ng/dry g	500	0	55	60 - 140% FAIL			Q
Chrysene	NA	501	0.067	0.5	ng/dry g	500	0	100	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	649	0.106	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Dibenzothiophene	NA	445	0.2	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Fluoranthene	NA	619	0.035	0.5	ng/dry g	500	0	124	60 - 140% PASS			
Fluorene	NA	366	0.068	0.5	ng/dry g	500	0	73	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	657	0.087	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Naphthalene	NA	205	0.187	0.5	ng/dry g	500	0	41	60 - 140% FAIL			Q
Perylene	NA	423	0.114	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Phenanthrene	NA	448	0.074	0.5	ng/dry g	500	0	90	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	613	0.048	0.5	ng/dry g	500	0	123	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19			
(d10-Acenaphthene)	NA	70			% Recovery	100	0	70	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	96			% Recovery	100	0	96	59 - 121%	PASS	5	30	PASS	
(d12-Chrysene)	NA	121			% Recovery	100	0	121	52 - 144%	PASS	6	30	PASS	
(d12-Perylene)	NA	91			% Recovery	100	0	91	50 - 150%	PASS	2	30	PASS	
(d8-Naphthalene)	NA	48			% Recovery	100	0	48	31 - 106%	PASS	9	30	PASS	
1,6,7-Trimethylnapthalene	NA	361	0.059	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	264	0.084	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	8	30	PASS	Q
1-Methylphenanthrene	NA	579	0.076	0.5	ng/dry g	500	0	116	60 - 140%	PASS	4	30	PASS	
2,6-Dimethylnaphthalene	NA	299	0.065	0.5	ng/dry g	500	0	60	60 - 140%	PASS	2	30	PASS	
2-Methylnaphthalene	NA	266	0.106	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	6	30	PASS	Q
Acenaphthene	NA	306	0.078	0.5	ng/dry g	500	0	61	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	306	0.058	0.5	ng/dry g	500	0	61	60 - 140%	PASS	3	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	5	30	PASS	
Benz[a]anthracene	NA	732	0.107	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Benzo[a]pyrene	NA	431	0.106	0.5	ng/dry g	500	0	86	60 - 140%	PASS	3	30	PASS	
Benzo[b]fluoranthene	NA	554	0.063	0.5	ng/dry g	500	0	111	60 - 140%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	521	0.098	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS	
Benzo[g,h,i]perylene	NA	452	0.093	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
Benzo[k]fluoranthene	NA	476	0.111	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	287	0.092	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	4	30	PASS	Q
Chrysene	NA	469	0.067	0.5	ng/dry g	500	0	94	60 - 140%	PASS	6	30	PASS	
Dibenz[a,h]anthracene	NA	637	0.106	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
Dibenzothiophene	NA	443	0.2	0.5	ng/dry g	500	0	89	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	592	0.035	0.5	ng/dry g	500	0	118	60 - 140%	PASS	5	30	PASS	
Fluorene	NA	359	0.068	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	641	0.087	0.5	ng/dry g	500	0	128	60 - 140%	PASS	2	30	PASS	
Naphthalene	NA	229	0.187	0.5	ng/dry g	500	0	46	60 - 140%	FAIL	11	30	PASS	Q
Perylene	NA	424	0.114	0.5	ng/dry g	500	0	85	60 - 140%	PASS	0	30	PASS	
Phenanthrene	NA	434	0.074	0.5	ng/dry g	500	0	87	60 - 140%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	585	0.048	0.5	ng/dry g	500	0	117	60 - 140%	PASS	5	30	PASS	
Sample ID: 56377-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 25-Jan-19			
(d10-Acenaphthene)	NA	91			% Recovery	100		91	44 - 144%	PASS				
(d10-Phenanthrene)	NA	99			% Recovery	100		99	60 - 134%	PASS				
(d12-Chrysene)	NA	65			% Recovery	100		65	27 - 158%	PASS				
(d12-Perylene)	NA	85			% Recovery	100		85	17 - 160%	PASS				
(d8-Naphthalene)	NA	63			% Recovery	100		63	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.416	0.106	0.5	ug/dry g	0.74		56	60 - 140%	FAIL				1
Benz[a]anthracene	NA	2.89	0.107	0.5	ng/dry g	4.72		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.92	0.106	0.5	ng/dry g	4.3		68	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	4.6	0.063	0.5	ng/dry g	3.87		119	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.48	0.098	0.5	ng/dry g	3.28		106	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.82	0.093	0.5	ng/dry g	2.84		99	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	4.14	0.111	0.5	ng/dry g	4.39		94	60 - 140%	PASS				
Chrysene	NA	4	0.067	0.5	ng/dry g	4.86		82	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.874	0.106	0.5	ng/dry g	0.924		95	60 - 140%	PASS				
Fluoranthene	NA	5.89	0.035	0.5	ng/dry g	8.92		66	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	1.8	0.087	0.5	ng/dry g	2.78		65	60 - 140%	PASS				
Perylene	NA	0.742	0.114	0.5	ng/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	3.4	0.074	0.5	ng/dry g	5.27		65	60 - 140%	PASS				
Pyrene	NA	5.96	0.048	0.5	ng/dry g	9.7		61	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 23-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 56375-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 24-Jan-19		
Allethrin	NA	644	0.28	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Bifenthrin	NA	527	0.22	0.5	ng/dry g	500	0	105	60 - 140%		PASS	
Cyfluthrin	NA	567	0.25	0.5	ng/dry g	500	0	113	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	647	0.23	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	611	0.21	0.5	ng/dry g	500	0	122	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Esfenvalerate	NA	452	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Fenvalerate	NA	489	0.25	0.5	ng/dry g	500	0	98	60 - 140%		PASS	
Fluvalinate	NA	446	0.23	0.5	ng/dry g	500	0	89	60 - 140%		PASS	
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%		PASS	
Permethrin, trans-	NA	402	0.22	0.5	ng/dry g	358	0	112	60 - 140%		PASS	
Prallethrin	NA	566	0.28	0.5	ng/dry g	500	0	113	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56375-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 24-Jan-19		
Allethrin	NA	629	0.28	0.5	ng/dry g	500	0	126	60 - 140%	PASS	2	30 PASS	
Bifenthrin	NA	545	0.22	0.5	ng/dry g	500	0	109	60 - 140%	PASS	4	30 PASS	
Cyfluthrin	NA	583	0.25	0.5	ng/dry g	500	0	117	60 - 140%	PASS	3	30 PASS	
Cyhalothrin, Total Lambda	NA	663	0.23	0.5	ng/dry g	500	0	133	60 - 140%	PASS	3	30 PASS	
Cypermethrin	NA	556	0.25	0.5	ng/dry g	500	0	111	60 - 140%	PASS	2	30 PASS	
Danitol (Fenpropathrin)	NA	630	0.21	0.5	ng/dry g	500	0	126	60 - 140%	PASS	3	30 PASS	
Deltamethrin/Tralomethrin	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30 PASS	
Esfenvalerate	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30 PASS	
Fenvalerate	NA	485	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS	1	30 PASS	
Fluvalinate	NA	450	0.23	0.5	ng/dry g	500	0	90	60 - 140%	PASS	1	30 PASS	
Permethrin, cis-	NA	158	0.17	0.5	ng/dry g	134	0	118	60 - 140%	PASS	3	30 PASS	
Permethrin, trans-	NA	412	0.22	0.5	ng/dry g	358	0	115	60 - 140%	PASS	3	30 PASS	
Prallethrin	NA	422	0.28	0.5	ng/dry g	500	0	84	60 - 140%	PASS	29	30 PASS	

CHAIN OF CUSTODY

1807003-002

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES
	7/10/18	0914	sediment	B18-10065	3	X
	↓	1038	sediment	B18-10066	3	X
		1155	sediment	B18-10067	3	X
		1345	sediment	B18-10068	3	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
	7/11/18 0940	7/11/18 0940
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Pyrethroid, OCP, PCB, Toxaphene, PAH, PBDE, FIP	Total Metals (1640)	Total Mercury (EPA 245.7)	Ammonia	Nitrate, Nitrite	Total Organic Carbon	Total Suspended Solids (TSS) (EPA 2540D)	TKN	Total Phosphorus	
	7/10/18	0715	DI	B18-SED-EB	9	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/11/18 0940	[signature] 7/11/18 09:40
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

a. Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

b. USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

c. Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

d. Includes cis-chlordane, trans-chlordane, o,p'-DDT, p,p'-DDT, o,p'-DDD, p,p'-DDD, o,p'-DDE, p,p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

e. Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

f. Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194,195, 200, 201, 203, 206, and 209.

g. Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-002

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/11/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 5	☐ BLUE ☑ WET ☐ DRY
Start 6:30 End 11:40 ☐ Other:	☐ Other :	☐ None 10.9 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

Picked up at the same time as 1807003-001.
See Temperature
Received a 2nd bag of sediment for each sample, says MEI FAWNA. - client asked for it back.
Received 1 sample B18-10068 cell assay, Alvina Mehinto. - client asked for it back.
Received all of the archived sediments. - client asked for it back.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 04, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-004

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/13/2018. A total of 13 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-004

2018 Regional Harbor Monitoring Program Total Samples: 13

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56417	B18-10015		7/12/2018	14:00	Sediment
56418	B18-10016		7/12/2018	12:15	Sediment
56419	B18-10438 (overdraw)		7/12/2018	15:57	Sediment
56420	B18-10020		7/12/2018	7:15	Sediment
56421	B18-10073		7/12/2018	11:08	Sediment
56422	B18-10074		7/12/2018	9:52	Sediment
56423	B18-10075		7/12/2018	8:30	Sediment
56424	B18-10017		7/13/2018	8:30	Sediment
56425	B18-10019		7/13/2018	6:55	Sediment
56426	B18-10069		7/11/2018	12:10	Sediment
56427	B18-10070		7/11/2018	10:55	Sediment
56428	B18-10071		7/11/2018	10:00	Sediment
56429	B18-10072		7/11/2018	13:45	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**14:00**	**Received: 13-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	74			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	73			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	70			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	67			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.27	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	1.07	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	1.37	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.616	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	1.08	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**12:15**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	52			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	49			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	61			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	48			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.217	0.193	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	58			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	63			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	54			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.302	0.193	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	0.325	0.25	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	84			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	80			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	95			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	77			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	78			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.399	0.193	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	50			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	51			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	61			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	46			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.387	0.193	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	67			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	77			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	62			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.89	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	60			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	57			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	67			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.649	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.218	0.187	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.257	0.179	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.195	0.186	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	82			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	78			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	96			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	75			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	57			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	54			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	55			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.554	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.6	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	61			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	59			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	72			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	58			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.89	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	72			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	70			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	83			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	66			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.561	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.58	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	69			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	65			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	78			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.86	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56417-R1	**B18-10015**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	39.1	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	13.6	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	59	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.62	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	599	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	
Sample ID: 56418-R1	**B18-10016**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**12:15**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	106	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	43.2	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	45.4	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.15	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.96	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	553	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	
Sample ID: 56419-R1	**B18-10438 (overdraw)**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**15:57**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	19.9	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	11.9	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	39.5	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.19	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.35	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	779	0.016	0.05	NA		E-14066	24-Dec-18	05-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56420-R1	**B18-10020**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	1.42	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	19.9	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	74.4	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.21	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	252	0.016	0.05	NA		E-14067	24-Dec-18	06-Feb-19	
Sample ID: 56421-R1	**B18-10073**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	222	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	51.6	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	42.2	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.18	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.03	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	649	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	
Sample ID: 56422-R1	**B18-10074**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	291	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	23.5	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	43.3	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.17	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.97	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	563	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56423-R1	**B18-10075**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	112	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	4.13	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	40.5	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.22	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.43	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	701	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	
Sample ID: 56424-R1	**B18-10017**			**Matrix: Sediment**		**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	118	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.75	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	38.4	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.17	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	2.04	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	798	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	
Sample ID: 56425-R1	**B18-10019**			**Matrix: Sediment**		**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	0.906	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.88	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	77.9	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.19	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	208	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56426-R1	**B18-10069**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	20.6	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	3.1	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	44.1	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.42	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	724	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	
Sample ID: 56427-R1	**B18-10070**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	42.3	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	4.13	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	44.9	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.14	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.75	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	727	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	
Sample ID: 56428-R1	**B18-10071**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	128	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	25.6	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	49.6	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.13	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.55	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	645	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56429-R1	**B18-10072**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	13	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	14.3	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19	11:00
Percent Solids	SM 2540 B	%	58.2	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.08	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	1.13	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	589	0.016	0.05	NA		E-14067	24-Dec-18	05-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**14:00**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	36900	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.291	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	12.1	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	94.7	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.856	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.272	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	44.6	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	35.7	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	34100	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	31.4	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0538	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 17:02
Nickel (Ni)	EPA 6020	µg/dry g	15.5	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.611	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.153	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	135	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**12:15**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	22300	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.189	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.92	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	61.1	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.472	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.276	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	33.5	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	25.3	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	22700	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.3	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0397	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 17:05
Nickel (Ni)	EPA 6020	µg/dry g	10.6	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.599	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.179	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	85.2	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	50700	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.295	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	14.2	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	184	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	1.08	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.295	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	70.8	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	80.2	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	49600	1	5	NA		E-14066	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	24.6	0.0025	0.005	NA		E-14066	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0624	0.00001	0.00002	NA		E-15083	08-Jan-19	08-Jan-19 17:07
Nickel (Ni)	EPA 6020	µg/dry g	22.1	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.855	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.245	0.01	0.02	NA		E-14066	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	174	0.025	0.05	NA		E-14066	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**			**Matrix: Sediment**		**Sampled: 12-Jul-18**	**7:15**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	5030	1	5	NA		E-14067	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0783	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	1.87	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	26.5	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.0836	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0932	0.0025	0.005	NA		E-14067	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	8.99	0.0025	0.005	NA		E-14067	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	4.08	0.0025	0.005	NA		E-14067	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	6100	1	5	NA		E-14067	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	2.41	0.0025	0.005	NA		E-14067	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0103	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:37
Nickel (Ni)	EPA 6020	µg/dry g	2.32	0.01	0.02	NA		E-14067	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.118	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0392	0.01	0.02	NA		E-14067	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	21.4	0.025	0.05	NA		E-14067	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**			**Matrix: Sediment**		**Sampled: 12-Jul-18**	**11:08**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	27500	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.188	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	102	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.585	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.272	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	47.3	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	38	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	30300	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.9	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0614	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:42
Nickel (Ni)	EPA 6020	µg/dry g	14.1	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.713	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.226	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	107	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**			**Matrix: Sediment**		**Sampled: 12-Jul-18**	**9:52**		**Received: 13-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	25400	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.187	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.35	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	92.1	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.464	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.234	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	43.2	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	71.2	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	27300	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.5	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0615	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:44
Nickel (Ni)	EPA 6020	µg/dry g	12.7	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.607	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.189	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	111	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**			**Matrix: Sediment**		**Sampled: 12-Jul-18**	**8:30**		**Received: 13-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	32000	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.278	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	10.4	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	128	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.623	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.245	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	54.9	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	108	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	34500	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	26.9	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.143	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:47
Nickel (Ni)	EPA 6020	µg/dry g	16.5	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.799	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.227	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	170	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**			**Matrix: Sediment**		**Sampled: 13-Jul-18**	**8:30**		**Received: 13-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	48200	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.352	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	16.4	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	117	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	1.38	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.274	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	59.7	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	50.6	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	46700	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	43.7	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0712	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:49
Nickel (Ni)	EPA 6020	µg/dry g	21.1	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.839	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.236	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	166	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**			**Matrix: Sediment**		**Sampled: 13-Jul-18**	**6:55**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	3160	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0664	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	1.68	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	15	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.0619	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0428	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	6.09	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	2.08	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	3940	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	1.75	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0053	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:52
Nickel (Ni)	EPA 6020	µg/dry g	1.47	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.116	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0353	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	12.1	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**			**Matrix: Sediment**		**Sampled: 11-Jul-18**	**12:10**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	47200	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.224	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	11.6	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	185	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.851	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.225	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	72.7	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	489	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	47600	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	24.4	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.373	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:54
Nickel (Ni)	EPA 6020	µg/dry g	26.3	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.612	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.203	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	331	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**			**Matrix: Sediment**		**Sampled: 11-Jul-18**	**10:55**	**Received: 13-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	37800	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.209	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	10.1	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	165	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.765	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.323	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	68.6	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	156	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	41500	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	14.2	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0727	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:57
Nickel (Ni)	EPA 6020	µg/dry g	26.8	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.697	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.145	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	202	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	27400	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.148	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.45	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	149	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.484	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.38	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	53.7	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	55.9	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	33200	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	8.8	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0251	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 17:59
Nickel (Ni)	EPA 6020	µg/dry g	21.6	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.551	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0962	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	127	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	29100	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.185	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.22	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	137	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.567	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.213	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	51.5	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	282	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	33400	1	5	NA		E-14067	24-Dec-18	05-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	16.5	0.0025	0.005	NA		E-14067	24-Dec-18	05-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.162	0.00001	0.00002	NA		E-15084	08-Jan-19	08-Jan-19 18:01
Nickel (Ni)	EPA 6020	µg/dry g	18.6	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.438	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.158	0.01	0.02	NA		E-14067	24-Dec-18	05-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	260	0.025	0.05	NA		E-14067	24-Dec-18	05-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.113	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0709	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0151	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.605	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19
Sample ID: 56418-R1	**B18-10016**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**12:15**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0931	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0391	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.013	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.382	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19
Sample ID: 56419-R1	**B18-10438 (overdraw)**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**15:57**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16153	08-Jan-19	08-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.354	0.0062	0.0124	NA		E-16153	08-Jan-19	08-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0655	0.0002	0.0004	NA		E-16153	08-Jan-19	08-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0239	0.0033	0.0066	NA		E-16153	08-Jan-19	08-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16153	08-Jan-19	08-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.957	0.0015	0.003	NA		E-16153	08-Jan-19	08-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0236	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.00663	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	ND	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.0941	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56421-R1	**B18-10073**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0375	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0402	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0138	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.406	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56422-R1	**B18-10074**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.025	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0348	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0101	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.54	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.393	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0809	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0168	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.11	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56424-R1	**B18-10017**			**Matrix: Sediment**		**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0988	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.107	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.023	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.79	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56425-R1	**B18-10019**			**Matrix: Sediment**		**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0158	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.00538	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	ND	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.0529	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	2.39	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.06	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.013	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.43	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.52	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0304	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0179	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.08	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0558	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0155	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0149	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.361	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**13:45**	**Received: 13-Jul-18**		
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16154	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.5	0.0062	0.0124	NA		E-16154	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0411	0.0002	0.0004	NA		E-16154	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0132	0.0033	0.0066	NA		E-16154	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16154	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.14	0.0015	0.003	NA		E-16154	08-Jan-19	09-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**12:15**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**15:57**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**13:45**	**Received: 13-Jul-18**		
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	11.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	15.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	8.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	7.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	4.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**12:15**	**Received: 13-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	25.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	14.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	6.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18 15:57**		**Received: 13-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	13.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	14.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	2.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	9.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	9.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	5.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	5.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18 7:15**			**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	13.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	22.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	20.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	18.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	10.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 1807003-004
Client: Wood Environment & Infrastructure Solutions, Inc.
Project: 2018 Regional Harbor Monitoring Program

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18 11:08**			**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	21.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	14.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	7.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	20.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	12.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	6.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	7.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18 8:30**			**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	21.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	13.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	6.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	7.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	14.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	22.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	3.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	10.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	3.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	12.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	26.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	23.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	10.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	0.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	0.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

PHYSIS Project ID: 1807003-004
Client: Wood Environment & Infrastructure Solutions, Inc.
Project: 2018 Regional Harbor Monitoring Program

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**12:10**	**Received: 13-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	19.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	14.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	0.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	7.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	9.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**10:55**	**Received: 13-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	11.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	12.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	9.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	16.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	9.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	7.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	9.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	9.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	5.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 1807003-004
Client: Wood Environment & Infrastructure Solutions, Inc.
Project: 2018 Regional Harbor Monitoring Program

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18 13:45**		**Received: 13-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 1.5	SM 2560 D	%	19.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 10.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.0	SM 2560 D	%	13.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 2.5	SM 2560 D	%	6.5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.0	SM 2560 D	%	5	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 3.5	SM 2560 D	%	6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 4.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.0	SM 2560 D	%	7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 6.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 7.0	SM 2560 D	%	4.4	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 8.5	SM 2560 D	%	2	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.0	SM 2560 D	%	1.7	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18
Phi 9.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1106	28-Dec-18	28-Dec-18

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	0.174	0.012	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.282	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.326	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	0.185	0.074	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.503	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.518	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.393	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	0.327	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**12:15**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.165	0.065	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	0.398	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	0.0662	0.023	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.218	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.318	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.599	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.317	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.433	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	0.253	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.123	0.094	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**7:15**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	ND	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**11:08**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.198	0.027	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.301	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.162	0.092	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.343	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.167	0.027	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.315	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.222	0.092	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.348	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	0.374	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	0.594	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	0.507	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.864	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	0.599	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	0.626	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	1.09	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	0.697	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	0.247	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	0.976	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	0.375	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	0.249	0.12	0.25	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	0.478	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.186	0.056	0.25	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	0.399	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	0.223	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	0.303	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.322	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	0.371	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	0.274	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	0.472	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	ND	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**12:10**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	0.17	0.1	0.2	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	0.14	0.017	0.2	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	0.325	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	2.58	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	0.755	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	8.09	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	4.64	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	4.85	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	2.54	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	96.5	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	186	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	224	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	18.6	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	196	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	203	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	36.8	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	11.3	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	5.68	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	145	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	440	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	201	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	340	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	554	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	64.8	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	486	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	4.5	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	470	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	29.5	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	12.9	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	1.97	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	93.1	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	18.7	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	401	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	44.3	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	297	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	73.5	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	276	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	46.9	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	6.75	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	34.7	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	13.8	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	102	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	41	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	26.6	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	18	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	53	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	13.3	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	24.4	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	1.87	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	2.92	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	1.04	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	2.82	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	0.374	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	2.84	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	0.712	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**10:55**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.281	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	0.542	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	0.264	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	0.419	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	0.147	0.092	0.2	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	0.263	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**13:45**	**Received: 13-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	0.49	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	0.59	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.731	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	0.504	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	0.627	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	1.06	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	0.747	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	0.979	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.207	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	0.277	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**14:00**	**Received: 13-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	69			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	102			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.372	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.463	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.105	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	8.17	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**12:15**	**Received: 13-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	66			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	71			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.68	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	75			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	7.05	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	103			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	99			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.276	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.336	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.134	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	82			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	90			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.11	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**9:52**	**Received: 13-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	73			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	76			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.27	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	81			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	93			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.587	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	13.8	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	67			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	79			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	7.89	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	110			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	104			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**12:10**	**Received: 13-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	97			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	104			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.743	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	19.7	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	82			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.293	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.7	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	97			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.499	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.472	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.31	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	129			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	1.93	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	2.31	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.498	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.126	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.146	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	19.7	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**14:00**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	85			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	97			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	85			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	48			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.08	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.41	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.44	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.38	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.615	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.859	0.058	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	2.8	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	70.2	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	49.2	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	71.3	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	56.3	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	65.9	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	62.1	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.839	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	49.4	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	24.8	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.71	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	93.8	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.33	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	109	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	5.83	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	13.9	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	23.3	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	90.9	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**12:15**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	47			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	83			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	63			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	32			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.71	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.34	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.35	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.939	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.38	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.247	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.707	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	13.9	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	4.8	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	7.64	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	5.71	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	7.09	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	6.21	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.538	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	7.42	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.01	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.381	0.2	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	11.6	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.721	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	17.7	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.98	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	1.66	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	5.6	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	11.4	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	52			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	60			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	79			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	65			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	41			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.979	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.36	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.81	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.81	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	5	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.74	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.346	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.94	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	46.8	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	25.5	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	26.2	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	20.5	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	21.4	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	27.9	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.03	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	27.3	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	10.5	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.768	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	40.6	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.56	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	54	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	6.36	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	5.72	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	14.6	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	40.2	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**7:15**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	80			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	93			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	123			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	94			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.57	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.64	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.17	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.03	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.26	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	ND	0.058	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.245	0.046	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	1.56	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	0.524	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	0.82	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	0.581	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	0.557	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	0.601	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.685	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	1.08	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	ND	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.414	0.2	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	3.42	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.666	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	1.26	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.23	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	0.248	0.114	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	4.33	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	2.8	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**11:08**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	60			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	74			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	98			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	83			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	45			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.04	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.77	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.21	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.46	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.54	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.339	0.078	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.381	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.8	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	35.6	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	14.7	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	18.3	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	14.2	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	13.4	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	17.4	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.877	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	18.2	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.51	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.809	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	23.8	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.09	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	37.3	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	6.27	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	4.4	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	9.39	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	22.8	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**			**Matrix: Sediment**		**Sampled: 12-Jul-18**		**9:52**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	43			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	55			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	81			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	66			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	28			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.734	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.37	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.62	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.956	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.62	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.328	0.078	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.322	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.919	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	22	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	9.2	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	10.7	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	8.83	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	8.71	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	10.1	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.737	0.092	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	10.6	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.37	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.545	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	19.1	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.775	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	22.7	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.6	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	2.43	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	7.21	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	18.4	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**			**Matrix: Sediment**		**Sampled: 12-Jul-18 8:30**			**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	62			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	77			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	104			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	83			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	49			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.19	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.28	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.33	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.68	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.54	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.667	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.873	0.058	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	3.02	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	51.9	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	23.1	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	30	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	23	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	25.9	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	27.9	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.2	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	28.9	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	10.1	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.51	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	39.6	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.4	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	53.8	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	6.78	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	6.5	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	15.7	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	39	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**			**Matrix: Sediment**		**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	55			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	66			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	99			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	72			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	40			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.06	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.16	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.46	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.42	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.51	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.511	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.408	0.058	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.23	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	31.4	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	14	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	18.8	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	16	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	18.5	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	17	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.948	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	18.2	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.67	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.06	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	31.1	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.21	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	40.5	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	7.03	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	3.95	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	13.6	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	32.1	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**6:55**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	77			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	91			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	123			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	93			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	56			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.405	0.059	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.664	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.11	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.536	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.25	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	ND	0.058	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.308	0.046	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	2.07	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	3.33	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	4.79	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	3.24	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	1.59	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	3.65	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.292	0.092	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	1.27	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	0.985	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.229	0.2	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	4.1	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.338	0.068	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	5.27	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.29	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	1.06	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	3.57	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	3.24	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	55			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	61			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	89			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	71			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	45			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.82	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.11	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.36	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.11	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.45	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.506	0.058	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.4	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	20.4	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	8.62	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	12.6	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	10.4	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	12.4	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	11.2	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.711	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	13.6	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.67	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.752	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	17.5	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.946	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	23.2	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.7	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	3.59	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	8.94	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	18.2	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	54			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	63			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	90			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	74			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	45			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.01	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.24	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.75	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.04	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.91	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.338	0.058	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.04	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	13.8	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	5.11	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	7.47	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	6.15	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	6.55	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	6.45	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.1	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	8.99	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	2.74	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.553	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	13.1	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.07	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	13.9	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	6.48	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	5.26	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	7.33	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	12.7	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**10:00**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	82			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	111			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	87			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	48			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.2	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.76	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.69	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.83	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.58	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.455	0.078	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.394	0.058	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.79	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	21.6	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	8.03	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	10.1	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	8.6	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	9.04	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	9.47	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.975	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	11.9	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.761	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	25.7	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.19	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	19.1	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	5.35	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	12	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	10.7	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	23.4	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	65			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	75			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	109			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	82			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	49			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.57	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.83	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.69	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.98	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	5.69	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.638	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.734	0.058	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	2.68	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	65.2	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	33.9	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	37.9	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	31	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	37.6	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	36.1	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.943	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	38.7	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	15.5	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.3	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	59.2	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.49	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	71.9	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	6.23	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	9.95	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	16.7	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	59.5	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56417-R1	**B18-10015**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**14:00**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	5.98	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	2.01	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	1.71	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	4.16	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56418-R1	**B18-10016**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**12:15**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.437	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56419-R1	**B18-10438 (overdraw)**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**15:57**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56420-R1	**B18-10020**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**7:15**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56421-R1	**B18-10073**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**11:08**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56422-R1	**B18-10074**		**Matrix: Sediment**			**Sampled: 12-Jul-18**	**9:52**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.254	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56423-R1	**B18-10075**		**Matrix: Sediment**			**Sampled: 12-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.297	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56424-R1	**B18-10017**		**Matrix: Sediment**			**Sampled: 13-Jul-18**		**8:30**	**Received: 13-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	1.44	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.22	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56425-R1	**B18-10019**		**Matrix: Sediment**			**Sampled: 13-Jul-18**	**6:55**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56426-R1	**B18-10069**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**12:10**	**Received: 13-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.41	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56427-R1	**B18-10070**			**Matrix: Sediment**		**Sampled: 11-Jul-18**		**10:55**	**Received: 13-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.383	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56428-R1	**B18-10071**		**Matrix: Sediment**			**Sampled: 11-Jul-18**	**10:00**	**Received: 13-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.951	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.697	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56429-R1	**B18-10072**		**Matrix: Sediment**			**Sampled: 11-Jul-18**		**13:45**	**Received: 13-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.302	0.22	0.5	NA	J	O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.835	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**			**Prepared: 04-Jan-19**			**Analyzed: 04-Jan-19**		
56413-B1	QAQC Procedural Blank	C-41074	ND	0.05	0.1	mg/dry kg								
56413-BS1	QAQC Procedural Blank	C-41074	21.6	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS			
56413-BS2	QAQC Procedural Blank	C-41074	21.7	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS	0	25	PASS
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**		
56413-B1	QAQC Procedural Blank	C-39070	ND	0.02	0.03	mg/dry kg								
56413-BS1	QAQC Procedural Blank	C-39070	2	0.02	0.03	mg/dry kg	1.83	0	109	80 - 120%	PASS			
56413-BS2	QAQC Procedural Blank	C-39070	1.91	0.02	0.03	mg/dry kg	1.83	0	104	80 - 120%	PASS	5	25	PASS
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**			**Prepared: 31-Dec-18**			**Analyzed: 31-Dec-18**		
56413-B1	QAQC Procedural Blank	C-35147	ND	0.1	0.1	%								
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**			**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**		
56413-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight								
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**			**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**		
56413-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight								
56415-CRM1	QAQC CRM - SRM 1944	O-19048	4.56	0.01	0.01	% dry weight	4.4		104	80 - 120%	PASS			
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**			**Prepared: 24-Dec-18**			**Analyzed: 05-Feb-19**		
20614-B1	QAQC Procedural Blank	E-14066	ND	0.016	0.05	µg/dry g								
20614-BS1	QAQC Procedural Blank	E-14066	47.6	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS			
20614-BS2	QAQC Procedural Blank	E-14066	47.3	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS	0	25	PASS
56413-B1	QAQC Procedural Blank	E-14067	ND	0.016	0.05	µg/dry g								
56413-BS1	QAQC Procedural Blank	E-14067	47.9	0.016	0.05	µg/dry g	50	0	96	80 - 120%	PASS			
56413-BS2	QAQC Procedural Blank	E-14067	46.9	0.016	0.05	µg/dry g	50	0	94	80 - 120%	PASS	2	25	PASS
56420-MS1	B18-10020	E-14067	1670	0.016	0.05	µg/dry g	1360	259	104	80 - 120%	PASS			
56420-MS2	B18-10020	E-14067	1670	0.016	0.05	µg/dry g	1360	259	104	80 - 120%	PASS	0	25	PASS
56420-R2	B18-10020	E-14067	267	0.016	0.05	µg/dry g						6	25	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19	
(PCB030)	NA	86			% Recovery	100	86	50 - 123%	PASS			
(PCB112)	NA	86			% Recovery	100	86	53 - 129%	PASS			
(PCB198)	NA	96			% Recovery	100	96	51 - 131%	PASS			
(TCMX)	NA	74			% Recovery	100	74	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(PCB030)	NA	84			% Recovery	100	0	84	50 - 123% PASS			
(PCB112)	NA	87			% Recovery	100	0	87	53 - 129% PASS			
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131% PASS			
(TCMX)	NA	68			% Recovery	100	0	68	45 - 117% PASS			
2,4'-DDD	NA	468	0.267	0.5	ng/dry g	500	0	94	60 - 140% PASS			
2,4'-DDE	NA	447	0.2	0.5	ng/dry g	500	0	89	60 - 140% PASS			
2,4'-DDT	NA	504	0.194	0.5	ng/dry g	500	0	101	60 - 140% PASS			
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140% PASS			
4,4'-DDE	NA	452	0.193	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDMU	NA	463	0.223	0.5	ng/dry g	500	0	93	60 - 140% PASS			
4,4'-DDT	NA	649	0.128	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Aldrin	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140% PASS			
BHC-alpha	NA	426	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
BHC-beta	NA	456	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140% PASS			
BHC-gamma	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-alpha	NA	424	0.187	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-gamma	NA	475	0.179	0.5	ng/dry g	500	0	95	60 - 140% PASS			
cis-Nonachlor	NA	424	0.192	0.5	ng/dry g	500	0	85	60 - 140% PASS			
DCPA (Dacthal)	NA	510	5	10	ng/dry g	500	0	102	60 - 140% PASS			
Dicofol	NA	273	2.5	5	ng/dry g	500	0	55	60 - 140% FAIL			Q
Dieldrin	NA	428	0.1	0.2	ng/dry g	500	0	86	60 - 140% PASS			
Endosulfan Sulfate	NA	375	0.25	0.5	ng/dry g	500	0	75	60 - 140% PASS			
Endosulfan-I	NA	61.5	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endosulfan-II	NA	183	0.25	0.5	ng/dry g	500	0	37	60 - 140% FAIL			Q
Endrin	NA	543	0.25	0.5	ng/dry g	500	0	109	60 - 140% PASS			
Endrin Aldehyde	NA	58.9	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endrin Ketone	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Heptachlor	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	470	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Hexachlorobenzene	NA	392	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS			
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	PASS			Q
Mirex	NA	445	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS			
Oxychlordane	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Perthane	NA	647	5	10	ng/dry g	500	0	129	60 - 140%	PASS			
trans-Nonachlor	NA	424	0.186	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
Toxaphene	NA	5530	10	20	ng/dry g	5000	0	111	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19			
(PCB030)	NA	86			% Recovery	100	0	86	50 - 123%	PASS	2	30	PASS	
(PCB112)	NA	89			% Recovery	100	0	89	53 - 129%	PASS	2	30	PASS	
(PCB198)	NA	96			% Recovery	100	0	96	51 - 131%	PASS	1	30	PASS	
(TCMX)	NA	73			% Recovery	100	0	73	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	475	0.267	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
2,4'-DDE	NA	464	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
2,4'-DDT	NA	522	0.194	0.5	ng/dry g	500	0	104	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140%	PASS	0	30	PASS	
4,4'-DDE	NA	461	0.193	0.5	ng/dry g	500	0	92	60 - 140%	PASS	2	30	PASS	
4,4'-DDMU	NA	475	0.223	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	651	0.128	0.5	ng/dry g	500	0	130	60 - 140%	PASS	0	30	PASS	
Aldrin	NA	501	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	2	30	PASS	
BHC-alpha	NA	439	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-beta	NA	469	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	430	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
BHC-gamma	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Chlordane-alpha	NA	444	0.187	0.5	ng/dry g	500	0	89	60 - 140%	PASS	5	30	PASS	
Chlordane-gamma	NA	488	0.179	0.5	ng/dry g	500	0	98	60 - 140%	PASS	3	30	PASS	
cis-Nonachlor	NA	440	0.192	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
DCPA (Dacthal)	NA	516	5	10	ng/dry g	500	0	103	60 - 140%	PASS	1	30	PASS	
Dicofol	NA	257	2.5	5	ng/dry g	500	0	51	60 - 140%	FAIL	8	30	PASS	Q
Dieldrin	NA	465	0.1	0.2	ng/dry g	500	0	93	60 - 140%	PASS	8	30	PASS	
Endosulfan Sulfate	NA	384	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	69.8	0.25	0.5	ng/dry g	500	0	14	60 - 140%	FAIL	15	30	PASS	Q
Endosulfan-II	NA	200	0.25	0.5	ng/dry g	500	0	40	60 - 140%	FAIL	8	30	PASS	Q
Endrin	NA	597	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	9	30	PASS	
Endrin Aldehyde	NA	65	0.25	0.5	ng/dry g	500	0	13	60 - 140%	FAIL	8	30	PASS	Q
Endrin Ketone	NA	459	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	3	30	PASS	
Heptachlor	NA	540	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
Hexachlorobenzene	NA	412	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	PASS	0	30	PASS	Q
Mirex	NA	467	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
Oxychlordane	NA	437	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
Perthane	NA	642	5	10	ng/dry g	500	0	128	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	436	0.186	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Toxaphene	NA	5380	10	20	ng/dry g	5000	0	108	60 - 140%	PASS	3	30	PASS	
Sample ID: 56415-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(PCB030)	NA	88			% Recovery	100		88	33 - 149%	PASS				
(PCB112)	NA	92			% Recovery	100		92	49 - 120%	PASS				
(PCB198)	NA	42			% Recovery	100		42	35 - 123%	PASS				
(TCMX)	NA	87			% Recovery	100		87	37 - 138%	PASS				
2,4'-DDD	NA	35.3	0.267	0.5	ng/dry g	38		93	60 - 140%	PASS				
2,4'-DDE	NA	19.4	0.2	0.5	ng/dry g	19		102	60 - 140%	PASS				
4,4'-DDD	NA	87	0.198	0.5	ng/dry g	108		81	60 - 140%	PASS				
4,4'-DDE	NA	92.8	0.193	0.5	ng/dry g	86		108	60 - 140%	PASS				
4,4'-DDT	NA	154	0.128	0.5	ng/dry g	170		91	60 - 140%	PASS				
Chlordane-alpha	NA	18.9	0.187	0.5	ng/dry g	16.5		115	60 - 140%	PASS				
Chlordane-gamma	NA	23.9	0.179	0.5	ng/dry g	19		126	60 - 140%	PASS				
cis-Nonachlor	NA	3.85	0.192	0.5	ng/dry g	3.7		104	60 - 140%	PASS				
Hexachlorobenzene	NA	5.38	0.25	0.5	ng/dry g	6		90	60 - 140%	PASS				
trans-Nonachlor	NA	10.2	0.186	0.5	ng/dry g	8.2		124	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20614-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20614-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18			Analyzed: 05-Feb-19		
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%		PASS	
Antimony (Sb)	NA	2.12	0.025	0.05	µg/dry g	2	0	106	70 - 130%		PASS	
Arsenic (As)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%		PASS	
Barium (Ba)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	70 - 130%		PASS	
Beryllium (Be)	NA	5890	0.025	0.05	µg/dry g	2	0	102	70 - 130%		PASS	
Cadmium (Cd)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%		PASS	
Chromium (Cr)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	70 - 130%		PASS	
Copper (Cu)	NA	2.19	0.0025	0.005	µg/dry g	2	0	110	70 - 130%		PASS	
Iron (Fe)	NA	2	1	5	µg/dry g	2	0	100	70 - 130%		PASS	
Lead (Pb)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%		PASS	
Nickel (Ni)	NA	2.17	0.01	0.02	µg/dry g	2	0	109	70 - 130%		PASS	
Selenium (Se)	NA	2.16	0.025	0.05	µg/dry g	2	0	108	70 - 130%		PASS	
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%		PASS	
Zinc (Zn)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%		PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19			Analyzed: 08-Jan-19		
Mercury (Hg)	NA	1010	0.00001	0.00002	µg/dry g	1000	0	101	70 - 130%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20614-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18					Analyzed: 05-Feb-19		
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS	0	30	PASS	
Antimony (Sb)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS	1	30	PASS	
Arsenic (As)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS	
Barium (Ba)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS	1	30	PASS	
Beryllium (Be)	NA	3400	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS	
Cadmium (Cd)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	2.17	0.0025	0.005	µg/dry g	2	0	109	70 - 130%	PASS	2	30	PASS	
Iron (Fe)	NA	1.93	1	5	µg/dry g	2	0	96	70 - 130%	PASS	4	30	PASS	
Lead (Pb)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS	
Nickel (Ni)	NA	2.16	0.01	0.02	µg/dry g	2	0	108	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	2.17	0.025	0.05	µg/dry g	2	0	109	70 - 130%	PASS	0	30	PASS	
Silver (Ag)	NA	0.204	0.01	0.02	µg/dry g	0.2	0	102	70 - 130%	PASS	0	30	PASS	
Zinc (Zn)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19					Analyzed: 08-Jan-19		
Mercury (Hg)	NA	993	0.00001	0.00002	µg/dry g	1000	0	99	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
		Method: EPA 6020			Batch ID: E-14067		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7			Batch ID: E-15084		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14067		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	1.74	1	5	µg/dry g	2	0	87	70 - 130%	PASS		
Antimony (Sb)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS		
Arsenic (As)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS		
Barium (Ba)	NA	2.09	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Beryllium (Be)	NA	5960	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Cadmium (Cd)	NA	2.07	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS		
Chromium (Cr)	NA	2.1	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS		
Copper (Cu)	NA	2.21	0.0025	0.005	µg/dry g	2	0	111	70 - 130%	PASS		
Iron (Fe)	NA	2	1	5	µg/dry g	2	0	100	70 - 130%	PASS		
Lead (Pb)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Nickel (Ni)	NA	2.17	0.01	0.02	µg/dry g	2	0	109	70 - 130%	PASS		
Selenium (Se)	NA	2.22	0.025	0.05	µg/dry g	2	0	111	70 - 130%	PASS		
Silver (Ag)	NA	0.2	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15084		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	1030	0.00001	0.00002	µg/dry g	1000	0	103	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 6020				Batch ID: E-14067		Prepared: 24-Dec-18				Analyzed: 05-Feb-19		
Aluminum (Al)	NA	1.68	1	5	µg/dry g	2	0	84	70 - 130%	PASS	4	30	PASS
Antimony (Sb)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS	0	30	PASS
Arsenic (As)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Barium (Ba)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	0	30	PASS
Beryllium (Be)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	2	30	PASS
Cadmium (Cd)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	2	30	PASS
Chromium (Cr)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	1	30	PASS
Copper (Cu)	NA	2.16	0.0025	0.005	µg/dry g	2	0	108	70 - 130%	PASS	2	30	PASS
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS	4	30	PASS
Lead (Pb)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS
Nickel (Ni)	NA	2.14	0.01	0.02	µg/dry g	2	0	107	70 - 130%	PASS	1	30	PASS
Selenium (Se)	NA	2.2	0.025	0.05	µg/dry g	2	0	110	70 - 130%	PASS	1	30	PASS
Silver (Ag)	NA	0.2	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS	0	30	PASS
Zinc (Zn)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	2	30	PASS
	Method: EPA 245.7				Batch ID: E-15084		Prepared: 08-Jan-19				Analyzed: 08-Jan-19		
Mercury (Hg)	NA	1040	0.00001	0.00002	µg/dry g	1000	0	104	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56414-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14067		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	10800	1	5	µg/dry g	10100		107	42 - 124%		PASS	
Antimony (Sb)	NA	116	0.025	0.05	µg/dry g	145		80	10 - 137%		PASS	
Arsenic (As)	NA	191	0.025	0.05	µg/dry g	171		112	66 - 122%		PASS	
Beryllium (Be)	NA	106	0.025	0.05	µg/dry g	102		104	72 - 120%		PASS	
Cadmium (Cd)	NA	216	0.0025	0.005	µg/dry g	225		96	70 - 117%		PASS	
Chromium (Cr)	NA	170	0.0025	0.005	µg/dry g	144		118	66 - 123%		PASS	
Copper (Cu)	NA	190	0.0025	0.005	µg/dry g	174		109	71 - 119%		PASS	
Iron (Fe)	NA	22500	1	5	µg/dry g	15000		150	33 - 155%		PASS	
Lead (Pb)	NA	114	0.0025	0.005	µg/dry g	111		103	71 - 129%		PASS	
Nickel (Ni)	NA	104	0.01	0.02	µg/dry g	98.3		106	65 - 121%		PASS	
Selenium (Se)	NA	245	0.025	0.05	µg/dry g	206		119	64 - 122%		PASS	
Silver (Ag)	NA	43.5	0.01	0.02	µg/dry g	45.5		96	66 - 124%		PASS	
Zinc (Zn)	NA	222	0.025	0.05	µg/dry g	207		107	67 - 125%		PASS	
	Method: EPA 245.7				Batch ID: E-15084		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	10.3	0.00001	0.00002	µg/dry g	12		86	57 - 133%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56420-MS1	**B18-10020**				**Matrix: Sediment**		**Sampled: 12-Jul-18**				**Received: 13-Jul-18**	
	Method: EPA 6020				Batch ID: E-14067		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	4720	1	5	µg/dry g	54.2	4680	74	70 - 130%	PASS		
Antimony (Sb)	NA	57.9	0.025	0.05	µg/dry g	54.2	0.0718	107	70 - 130%	PASS		
Arsenic (As)	NA	62.3	0.025	0.05	µg/dry g	54.2	1.79	112	70 - 130%	PASS		
Barium (Ba)	NA	81.1	0.025	0.05	µg/dry g	54.2	25.2	103	70 - 130%	PASS		
Beryllium (Be)	NA	57	0.025	0.05	µg/dry g	54.2	0.0786	105	70 - 130%	PASS		
Cadmium (Cd)	NA	56	0.0025	0.005	µg/dry g	54.2	0.0818	103	70 - 130%	PASS		
Chromium (Cr)	NA	68.6	0.0025	0.005	µg/dry g	54.2	8.69	111	70 - 130%	PASS		
Copper (Cu)	NA	62.1	0.0025	0.005	µg/dry g	54.2	3.73	108	70 - 130%	PASS		
Iron (Fe)	NA	6050	1	5	µg/dry g	54.2	5910	258	70 - 130%	FAIL		SH
Lead (Pb)	NA	55.5	0.0025	0.005	µg/dry g	54.2	2.33	98	70 - 130%	PASS		
Nickel (Ni)	NA	61.7	0.01	0.02	µg/dry g	54.2	2.21	110	70 - 130%	PASS		
Selenium (Se)	NA	65.7	0.025	0.05	µg/dry g	54.2	0.126	121	70 - 130%	PASS		
Silver (Ag)	NA	5.47	0.01	0.02	µg/dry g	5.42	0.038	100	70 - 130%	PASS		
Zinc (Zn)	NA	76.5	0.025	0.05	µg/dry g	54.2	20.4	104	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15084		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	0.166	0.00001	0.00002	µg/dry g	0.136	0.0092	115	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56420-MS2	**B18-10020**				**Matrix: Sediment**			**Sampled: 12-Jul-18**				**Received: 13-Jul-18**		
	Method: EPA 6020				Batch ID: E-14067			Prepared: 24-Dec-18				Analyzed: 05-Feb-19		
Aluminum (Al)	NA	4720	1	5	µg/dry g	54.2	4680	74	70 - 130%	PASS	0	30	PASS	
Antimony (Sb)	NA	58.1	0.025	0.05	µg/dry g	54.2	0.0718	107	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	61.9	0.025	0.05	µg/dry g	54.2	1.79	111	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	81.1	0.025	0.05	µg/dry g	54.2	25.2	103	70 - 130%	PASS	0	30	PASS	
Beryllium (Be)	NA	58	0.025	0.05	µg/dry g	54.2	0.0786	107	70 - 130%	PASS	2	30	PASS	
Cadmium (Cd)	NA	56.2	0.0025	0.005	µg/dry g	54.2	0.0818	104	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	69.1	0.0025	0.005	µg/dry g	54.2	8.69	111	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	62.1	0.0025	0.005	µg/dry g	54.2	3.73	108	70 - 130%	PASS	0	30	PASS	
Iron (Fe)	NA	6050	1	5	µg/dry g	54.2	5910	258	70 - 130%	FAIL	0	30	PASS	SH
Lead (Pb)	NA	55.9	0.0025	0.005	µg/dry g	54.2	2.33	99	70 - 130%	PASS	1	30	PASS	
Nickel (Ni)	NA	61.7	0.01	0.02	µg/dry g	54.2	2.21	110	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	67	0.025	0.05	µg/dry g	54.2	0.126	123	70 - 130%	PASS	2	30	PASS	
Silver (Ag)	NA	5.52	0.01	0.02	µg/dry g	5.42	0.038	101	70 - 130%	PASS	1	30	PASS	
Zinc (Zn)	NA	76.6	0.025	0.05	µg/dry g	54.2	20.4	104	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15084			Prepared: 08-Jan-19				Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.165	0.00001	0.00002	µg/dry g	0.136	0.0092	115	70 - 130%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56420-R2	**B18-10020**				**Matrix: Sediment**		**Sampled: 12-Jul-18**			**Received: 13-Jul-18**		
	Method: EPA 6020				Batch ID: E-14067		Prepared: 24-Dec-18			Analyzed: 06-Feb-19		
Aluminum (Al)	NA	4330	1	5	µg/dry g					15	30	PASS
Antimony (Sb)	NA	0.0653	0.025	0.05	µg/dry g					18	30	PASS
Arsenic (As)	NA	1.72	0.025	0.05	µg/dry g					8	30	PASS
Barium (Ba)	NA	23.9	0.025	0.05	µg/dry g					10	30	PASS
Beryllium (Be)	NA	0.0736	0.025	0.05	µg/dry g					13	30	PASS
Cadmium (Cd)	NA	0.0704	0.0025	0.005	µg/dry g					28	30	PASS
Chromium (Cr)	NA	8.4	0.0025	0.005	µg/dry g					7	30	PASS
Copper (Cu)	NA	3.38	0.0025	0.005	µg/dry g					19	30	PASS
Iron (Fe)	NA	5730	1	5	µg/dry g					6	30	PASS
Lead (Pb)	NA	2.26	0.0025	0.005	µg/dry g					6	30	PASS
Nickel (Ni)	NA	2.09	0.01	0.02	µg/dry g					10	30	PASS
Selenium (Se)	NA	0.134	0.025	0.05	µg/dry g					13	30	PASS
Silver (Ag)	NA	0.0369	0.01	0.02	µg/dry g					6	30	PASS
Zinc (Zn)	NA	19.5	0.025	0.05	µg/dry g					9	30	PASS
	Method: EPA 245.7				Batch ID: E-15084		Prepared: 08-Jan-19			Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.0081	0.00001	0.00002	µg/dry g					24	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 60149-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14066		Prepared: 24-Dec-18				Analyzed: 05-Feb-19	
Aluminum (Al)	NA	11100	1	5	µg/dry g	10100		110	42 - 124%		PASS	
Antimony (Sb)	NA	130	0.025	0.05	µg/dry g	145		90	10 - 137%		PASS	
Arsenic (As)	NA	180	0.025	0.05	µg/dry g	171		105	66 - 122%		PASS	
Beryllium (Be)	NA	101	0.025	0.05	µg/dry g	102		99	72 - 120%		PASS	
Cadmium (Cd)	NA	218	0.0025	0.005	µg/dry g	225		97	70 - 117%		PASS	
Chromium (Cr)	NA	158	0.0025	0.005	µg/dry g	144		110	66 - 123%		PASS	
Copper (Cu)	NA	175	0.0025	0.005	µg/dry g	174		101	71 - 119%		PASS	
Iron (Fe)	NA	21200	1	5	µg/dry g	15000		141	33 - 155%		PASS	
Lead (Pb)	NA	109	0.0025	0.005	µg/dry g	111		98	71 - 129%		PASS	
Nickel (Ni)	NA	95.9	0.01	0.02	µg/dry g	98.3		98	65 - 121%		PASS	
Selenium (Se)	NA	226	0.025	0.05	µg/dry g	206		110	64 - 122%		PASS	
Silver (Ag)	NA	43	0.01	0.02	µg/dry g	45.5		95	66 - 124%		PASS	
Zinc (Zn)	NA	212	0.025	0.05	µg/dry g	207		102	67 - 125%		PASS	
	Method: EPA 245.7				Batch ID: E-15083		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	9.75	0.00001	0.00002	µg/dry g	12		81	57 - 133%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20614-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 08-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 20614-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00866	0.0018	0.0036	µmol/dry g	0.0089	0	97	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0171	0.0062	0.0124	µmol/dry g	0.0157	0	109	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00486	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0179	0.0033	0.0066	µmol/dry g	0.017	0	105	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000854	0.0047	0.0094	µmol/dry g	0.0009	0	92	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0157	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS				
Sample ID: 20614-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16153		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00904	0.0018	0.0036	µmol/dry g	0.0089	0	102	70 - 130%	PASS	5	30	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	3	30	PASS	
Lead (Pb) - SEM	NA	0.00486	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS	0	30	PASS	
Nickel (Ni) - SEM	NA	0.0172	0.0033	0.0066	µmol/dry g	0.017	0	101	70 - 130%	PASS	4	30	PASS	
Silver (Ag) - SEM	NA	0.000881	0.0047	0.0094	µmol/dry g	0.0009	0	95	70 - 130%	PASS	3	30	PASS	
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00893	0.0018	0.0036	µmol/dry g	0.0089	0	100	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0168	0.0062	0.0124	µmol/dry g	0.0157	0	107	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00495	0.0002	0.0004	µmol/dry g	0.0048	0	102	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000874	0.0047	0.0094	µmol/dry g	0.0009	0	94	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0155	0.0015	0.003	µmol/dry g	0.0153	0	101	70 - 130%	PASS				
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00908	0.0018	0.0036	µmol/dry g	0.0089	0	102	70 - 130%	PASS	2	30	PASS	
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	1	30	PASS	
Lead (Pb) - SEM	NA	0.00489	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.0175	0.0033	0.0066	µmol/dry g	0.017	0	103	70 - 130%	PASS	4	30	PASS	
Silver (Ag) - SEM	NA	0.000901	0.0047	0.0094	µmol/dry g	0.0009	0	97	70 - 130%	PASS	3	30	PASS	
Zinc (Zn) - SEM	NA	0.0157	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56420-MS1	**B18-10020**				**Matrix: Sediment**		**Sampled: 12-Jul-18**			**Received: 13-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	0.0678	0.0018	0.0036	µmol/dry g	0.0647	0	105	70 - 130%	PASS			
Copper (Cu) - SEM	NA	0.136	0.0062	0.0124	µmol/dry g	0.114	0.0238	98	70 - 130%	PASS			
Lead (Pb) - SEM	NA	0.0396	0.0002	0.0004	µmol/dry g	0.0351	0.00662	94	70 - 130%	PASS			
Nickel (Ni) - SEM	NA	0.128	0.0033	0.0066	µmol/dry g	0.124	0	103	70 - 130%	PASS			
Silver (Ag) - SEM	NA	0.0058	0.0047	0.0094	µmol/dry g	0.0067	0	86	70 - 130%	PASS			
Zinc (Zn) - SEM	NA	0.208	0.0015	0.003	µmol/dry g	0.111	0.0931	104	70 - 130%	PASS			
Sample ID: 56420-MS2	**B18-10020**				**Matrix: Sediment**		**Sampled: 12-Jul-18**			**Received: 13-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	0.0677	0.0018	0.0036	µmol/dry g	0.0647	0	105	70 - 130%	PASS	0	30	PASS
Copper (Cu) - SEM	NA	0.137	0.0062	0.0124	µmol/dry g	0.114	0.0238	99	70 - 130%	PASS	1	30	PASS
Lead (Pb) - SEM	NA	0.0402	0.0002	0.0004	µmol/dry g	0.0351	0.00662	96	70 - 130%	PASS	2	30	PASS
Nickel (Ni) - SEM	NA	0.128	0.0033	0.0066	µmol/dry g	0.124	0	103	70 - 130%	PASS	0	30	PASS
Silver (Ag) - SEM	NA	0.00526	0.0047	0.0094	µmol/dry g	0.0067	0	78	70 - 130%	PASS	10	30	PASS
Zinc (Zn) - SEM	NA	0.207	0.0015	0.003	µmol/dry g	0.111	0.0931	103	70 - 130%	PASS	1	30	PASS
Sample ID: 56420-R2	**B18-10020**				**Matrix: Sediment**		**Sampled: 12-Jul-18**			**Received: 13-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16154		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS
Copper (Cu) - SEM	NA	0.0241	0.0062	0.0124	µmol/dry g						2	30	PASS
Lead (Pb) - SEM	NA	0.0066	0.0002	0.0004	µmol/dry g						0	30	PASS
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g						0	30	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS
Zinc (Zn) - SEM	NA	0.0922	0.0015	0.003	µmol/dry g						2	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
Fipronil	NA	528	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Fipronil Desulfinyl	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS			
Fipronil Sulfide	NA	472	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Fipronil Sulfone	NA	455	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS			
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
Fipronil	NA	523	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	1	30	PASS
Fipronil Desulfinyl	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS
Fipronil Sulfide	NA	465	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	1	30	PASS
Fipronil Sulfone	NA	431	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	6	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**					**Matrix: DI Water**		**Sampled:**		**Received:**		
	Method: SM 2560 D					Batch ID: P-1106		Prepared: 28-Dec-18		Analyzed: 28-Dec-18		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56417-R2	**B18-10015**				**Matrix: Sediment**		**Sampled: 12-Jul-18**			**Received: 13-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1106		Prepared: 28-Dec-18			Analyzed: 28-Dec-18		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.5	NA	7.5	0.1	0.1	%					44	20 FAIL	NH
Phi 10.0	NA	1	0.1	0.1	%					11	20 PASS	
Phi 10.5	NA	1.4	0.1	0.1	%					7	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	16.4	0.1	0.1	%					5	20 PASS	
Phi 2.5	NA	2.2	0.1	0.1	%					20	20 PASS	
Phi 3.0	NA	3.3	0.1	0.1	%					16	20 PASS	
Phi 3.5	NA	6.9	0.1	0.1	%					8	20 PASS	
Phi 4.0	NA	9.2	0.1	0.1	%					6	20 PASS	
Phi 4.5	NA	8.3	0.1	0.1	%					5	20 PASS	
Phi 5.0	NA	7.8	0.1	0.1	%					7	20 PASS	
Phi 5.5	NA	4.7	0.1	0.1	%					7	20 PASS	
Phi 6.0	NA	6.7	0.1	0.1	%					5	20 PASS	
Phi 6.5	NA	4.2	0.1	0.1	%					2	20 PASS	
Phi 7.0	NA	5.6	0.1	0.1	%					6	20 PASS	
Phi 7.5	NA	3.3	0.1	0.1	%					3	20 PASS	
Phi 8.0	NA	4.2	0.1	0.1	%					7	20 PASS	
Phi 8.5	NA	3.2	0.1	0.1	%					3	20 PASS	
Phi 9.0	NA	2.9	0.1	0.1	%					4	20 PASS	
Phi 9.5	NA	1.4	0.1	0.1	%					7	20 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	36.3	0.1	0.2	ng/dry g	50	0	73	60 - 140%		PASS	
PCB005	NA	42.1	0.1	0.2	ng/dry g	50	0	84	60 - 140%		PASS	
PCB008	NA	43.7	0.017	0.2	ng/dry g	50	0	87	60 - 140%		PASS	
PCB015	NA	46.9	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB018	NA	47.5	0.029	0.2	ng/dry g	50	0	95	60 - 140%		PASS	
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%		PASS	
PCB028	NA	46.9	0.023	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB029	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB031	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB033	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB037	NA	50.3	0.06	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB044	NA	50.3	0.028	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB049	NA	49.3	0.036	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB052	NA	50.7	0.012	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB056(060)	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB066	NA	54	0.027	0.2	ng/dry g	50	0	108	60 - 140%		PASS	
PCB070	NA	55	0.023	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB074	NA	52.5	0.021	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB077	NA	55	0.018	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB081	NA	53.7	0.084	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB087	NA	51.9	0.081	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB095	NA	48.8	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB097	NA	56.2	0.1	0.2	ng/dry g	50	0	112	60 - 140%		PASS	
PCB099	NA	50.8	0.028	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB101	NA	52	0.027	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB105	NA	45.3	0.047	0.2	ng/dry g	50	0	91	60 - 140%		PASS	
PCB110	NA	51.7	0.074	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB114	NA	51.1	0.072	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB118	NA	50.8	0.069	0.2	ng/dry g	50	0	102	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	52	0.071	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB123	NA	50.1	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB126	NA	48	0.086	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB128	NA	47.8	0.081	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB137	NA	44.3	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB138	NA	47.5	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB141	NA	44.5	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB149	NA	47.2	0.092	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB151	NA	55.4	0.073	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB153	NA	49.1	0.065	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB156	NA	54.7	0.089	0.2	ng/dry g	50	0	109	60 - 140%	PASS			
PCB157	NA	46.4	0.103	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB158	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB167	NA	52.1	0.049	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB168+132	NA	90.8	0.094	0.2	ng/dry g	100	0	91	60 - 140%	PASS			
PCB169	NA	56.5	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS			
PCB170	NA	48.3	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB174	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB177	NA	55.4	0.085	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB180	NA	51.5	0.154	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB183	NA	49.2	0.056	0.25	ng/dry g	50	0	98	60 - 140%	PASS			
PCB187	NA	53.4	0.168	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB189	NA	49.5	0.109	0.25	ng/dry g	50	0	99	60 - 140%	PASS			
PCB194	NA	54.8	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB195	NA	48.3	0.093	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB199(200)	NA	48.7	0.12	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB201	NA	44.3	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB206	NA	47.8	0.155	0.25	ng/dry g	50	0	96	60 - 140%	PASS			
PCB209	NA	50.1	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
PCB003	NA	38.8	0.1	0.2	ng/dry g	50	0	78	60 - 140%	PASS	7	30	PASS
PCB005	NA	44.2	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	5	30	PASS
PCB008	NA	44.5	0.017	0.2	ng/dry g	50	0	89	60 - 140%	PASS	2	30	PASS
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	7	30	PASS
PCB018	NA	47.8	0.029	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30	PASS
PCB027	NA	48.3	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30	PASS
PCB028	NA	47.4	0.023	0.2	ng/dry g	50	0	95	60 - 140%	PASS	1	30	PASS
PCB029	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS
PCB031	NA	49.9	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS
PCB037	NA	51.2	0.06	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30	PASS
PCB044	NA	52.6	0.028	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS
PCB049	NA	52.3	0.036	0.2	ng/dry g	50	0	105	60 - 140%	PASS	6	30	PASS
PCB052	NA	52.7	0.012	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS
PCB056(060)	NA	51.9	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	4	30	PASS
PCB066	NA	54.6	0.027	0.2	ng/dry g	50	0	109	60 - 140%	PASS	1	30	PASS
PCB070	NA	57	0.023	0.2	ng/dry g	50	0	114	60 - 140%	PASS	4	30	PASS
PCB074	NA	53.1	0.021	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS
PCB077	NA	55.6	0.018	0.2	ng/dry g	50	0	111	60 - 140%	PASS	1	30	PASS
PCB081	NA	54.2	0.084	0.2	ng/dry g	50	0	108	60 - 140%	PASS	1	30	PASS
PCB087	NA	54.3	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	5	30	PASS
PCB095	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	5	30	PASS
PCB097	NA	56	0.1	0.2	ng/dry g	50	0	112	60 - 140%	PASS	0	30	PASS
PCB099	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS	1	30	PASS
PCB101	NA	51.9	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	0	30	PASS
PCB105	NA	46	0.047	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS
PCB110	NA	51.2	0.074	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30	PASS
PCB114	NA	51	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS	0	30	PASS
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.6	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	0	30	PASS	
PCB126	NA	49.2	0.086	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB128	NA	49	0.081	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB137	NA	47.4	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB138	NA	47.3	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB141	NA	45.5	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB149	NA	49.2	0.092	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS	
PCB151	NA	55.1	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	1	30	PASS	
PCB153	NA	50.3	0.065	0.2	ng/dry g	50	0	101	60 - 140%	PASS	3	30	PASS	
PCB156	NA	56.5	0.089	0.2	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB157	NA	47.4	0.103	0.2	ng/dry g	50	0	95	60 - 140%	PASS	2	30	PASS	
PCB158	NA	48.2	0.074	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30	PASS	
PCB167	NA	52.3	0.049	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB168+132	NA	93.4	0.094	0.2	ng/dry g	100	0	93	60 - 140%	PASS	2	30	PASS	
PCB169	NA	56.3	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS	0	30	PASS	
PCB170	NA	48.7	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS	0	30	PASS	
PCB174	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	
PCB177	NA	57.9	0.085	0.25	ng/dry g	50	0	116	60 - 140%	PASS	4	30	PASS	
PCB180	NA	53.9	0.154	0.25	ng/dry g	50	0	108	60 - 140%	PASS	5	30	PASS	
PCB183	NA	51.1	0.056	0.25	ng/dry g	50	0	102	60 - 140%	PASS	4	30	PASS	
PCB187	NA	53.2	0.168	0.25	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS	
PCB189	NA	51.3	0.109	0.25	ng/dry g	50	0	103	60 - 140%	PASS	4	30	PASS	
PCB194	NA	55.1	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS	
PCB195	NA	51.5	0.093	0.25	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS	
PCB199(200)	NA	49.6	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	2	30	PASS	
PCB201	NA	47.2	0.104	0.25	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PCB203	NA	49.4	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	1	30	PASS	
PCB206	NA	52.6	0.155	0.25	ng/dry g	50	0	105	60 - 140%	PASS	9	30	PASS	
PCB209	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56415-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB008	NA	25.5	0.017	0.2	ng/dry g	22.3		114	60 - 140% PASS			
PCB018	NA	43.9	0.029	0.2	ng/dry g	51		86	60 - 140% PASS			
PCB028	NA	68	0.023	0.2	ng/dry g	80.8		84	60 - 140% PASS			
PCB044	NA	39.9	0.028	0.2	ng/dry g	60.2		66	60 - 140% PASS			
PCB049	NA	43.8	0.036	0.2	ng/dry g	53		83	60 - 140% PASS			
PCB052	NA	60.8	0.012	0.2	ng/dry g	79.4		77	60 - 140% PASS			
PCB066	NA	45.1	0.027	0.2	ng/dry g	71.9		63	60 - 140% PASS			
PCB087	NA	19.9	0.081	0.2	ng/dry g	29.9		67	60 - 140% PASS			
PCB099	NA	22.6	0.028	0.2	ng/dry g	37.5		60	60 - 140% PASS			
PCB101	NA	55.8	0.027	0.2	ng/dry g	73.4		76	60 - 140% PASS			
PCB105	NA	8.68	0.047	0.2	ng/dry g	24.5		35	60 - 140% FAIL			1
PCB110	NA	44.1	0.074	0.2	ng/dry g	63.5		69	60 - 140% PASS			
PCB118	NA	35.5	0.069	0.2	ng/dry g	58		61	60 - 140% PASS			
PCB128	NA	1.62	0.081	0.2	ng/dry g	8.5		19	60 - 140% FAIL			1
PCB138	NA	51.3	0.057	0.2	ng/dry g	62.1		83	60 - 140% PASS			
PCB149	NA	37.8	0.092	0.2	ng/dry g	49.7		76	60 - 140% PASS			
PCB151	NA	11.7	0.073	0.2	ng/dry g	16.9		69	60 - 140% PASS			
PCB153	NA	51.3	0.065	0.2	ng/dry g	74		69	60 - 140% PASS			
PCB156	NA	1.81	0.089	0.2	ng/dry g	6.5		28	60 - 140% FAIL			1
PCB174	NA	15.5	0.12	0.25	ng/dry g	16		97	60 - 140% PASS			
PCB180	NA	30.8	0.154	0.25	ng/dry g	44.3		70	60 - 140% PASS			
PCB183	NA	9.96	0.056	0.25	ng/dry g	12.2		82	60 - 140% PASS			
PCB187	NA	20.6	0.168	0.25	ng/dry g	25.1		82	60 - 140% PASS			
PCB194	NA	9.07	0.164	0.25	ng/dry g	11.2		81	60 - 140% PASS			
PCB195	NA	3.28	0.093	0.25	ng/dry g	3.8		86	60 - 140% PASS			
PCB206	NA	4.85	0.155	0.25	ng/dry g	9.2		53	60 - 140% FAIL			1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB209	NA	3.36	0.12	0.25	ng/dry g	6.8		49	60 - 140%	FAIL			1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
(DFPBDE)	NA	109			% Recovery	100	109	63 - 146%	PASS			
(FTBDE)	NA	95			% Recovery	100	95	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
(DFPBDE)	NA	111			% Recovery	100	0	111	63 - 146% PASS			
(FTBDE)	NA	96			% Recovery	100	0	96	53 - 138% PASS			
PBDE017	NA	55	0.05	0.1	ng/dry g	50	0	110	60 - 140% PASS			
PBDE028	NA	59.6	0.05	0.1	ng/dry g	50	0	119	60 - 140% PASS			
PBDE047	NA	57.6	0.05	0.1	ng/dry g	50	0	115	60 - 140% PASS			
PBDE049	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140% PASS			
PBDE066	NA	62	0.05	0.1	ng/dry g	50	0	124	60 - 140% PASS			
PBDE085	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140% PASS			
PBDE099	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140% PASS			
PBDE100	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140% PASS			
PBDE138	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140% PASS			
PBDE153	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140% PASS			
PBDE154	NA	49.2	0.05	0.1	ng/dry g	50	0	98	60 - 140% PASS			
PBDE183	NA	41.1	0.05	0.1	ng/dry g	50	0	82	60 - 140% PASS			
PBDE190	NA	29.3	0.05	0.1	ng/dry g	50	0	59	60 - 140% PASS			
PBDE209	NA	58	0.05	0.1	ng/dry g	250	0	23	60 - 140% FAIL			Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19			
(DFPBDE)	NA	109			% Recovery	100	0	109	60 - 140%	PASS	2	30	PASS	
(FTBDE)	NA	96			% Recovery	100	0	96	60 - 140%	PASS	0	30	PASS	
PBDE017	NA	55.8	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	2	25	PASS	
PBDE028	NA	58.3	0.05	0.1	ng/dry g	50	0	117	60 - 140%	PASS	2	25	PASS	
PBDE047	NA	60.7	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	5	25	PASS	
PBDE049	NA	55.6	0.05	0.1	ng/dry g	50	0	111	60 - 140%	PASS	0	25	PASS	
PBDE066	NA	61.7	0.05	0.1	ng/dry g	50	0	123	60 - 140%	PASS	1	25	PASS	
PBDE085	NA	60.3	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	1	25	PASS	
PBDE099	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140%	PASS	7	25	PASS	
PBDE100	NA	57.8	0.05	0.1	ng/dry g	50	0	116	60 - 140%	PASS	3	25	PASS	
PBDE138	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	7	25	PASS	
PBDE153	NA	50.7	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	25	PASS	
PBDE154	NA	57.5	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS	16	25	PASS	
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS	10	25	PASS	
PBDE190	NA	33.2	0.05	0.1	ng/dry g	50	0	66	60 - 140%	PASS	11	25	PASS	
PBDE209	NA	61.8	0.05	0.1	ng/dry g	250	0	25	60 - 140%	FAIL	8	25	PASS	Q
Sample ID: 56415-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**				**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19			
(DFPBDE)	NA	69			% Recovery	100		69	60 - 140%	PASS				
(FTBDE)	NA	127			% Recovery	100		127	60 - 140%	PASS				
PBDE047	NA	2.38	0.05	0.1	ng/dry g	1.72		138	60 - 140%	PASS				
PBDE099	NA	2.47	0.05	0.1	ng/dry g	2		124	60 - 140%	PASS				
PBDE100	NA	0.541	0.05	0.1	ng/dry g	0.4		135	60 - 140%	PASS				
PBDE153	NA	3.93	0.05	0.1	ng/dry g	6.44		61	60 - 140%	PASS				
PBDE154	NA	0.641	0.05	0.1	ng/dry g	1.06		60	60 - 140%	PASS				
PBDE183	NA	19.5	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS				
PBDE209	NA	69.1	0.05	0.1	ng/dry g	93.5		74	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19	
(d10-Acenaphthene)	NA	74			% Recovery	100	74	50 - 112%	PASS			
(d10-Phenanthrene)	NA	98			% Recovery	100	98	59 - 121%	PASS			
(d12-Chrysene)	NA	117			% Recovery	100	117	52 - 144%	PASS			
(d12-Perylene)	NA	91			% Recovery	100	91	50 - 150%	PASS			
(d8-Naphthalene)	NA	56			% Recovery	100	56	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	69			% Recovery	100	0	69	50 - 112% PASS			
(d10-Phenanthrene)	NA	101			% Recovery	100	0	101	59 - 121% PASS			
(d12-Chrysene)	NA	128			% Recovery	100	0	128	52 - 144% PASS			
(d12-Perylene)	NA	93			% Recovery	100	0	93	50 - 150% PASS			
(d8-Naphthalene)	NA	44			% Recovery	100	0	44	31 - 106% PASS			
1,6,7-Trimethylnapthalene	NA	367	0.059	0.5	ng/dry g	500	0	73	60 - 140% PASS			
1-Methylnaphthalene	NA	245	0.084	0.5	ng/dry g	500	0	49	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	605	0.076	0.5	ng/dry g	500	0	121	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	293	0.065	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
2-Methylnaphthalene	NA	250	0.106	0.5	ng/dry g	500	0	50	60 - 140% FAIL			Q
Acenaphthene	NA	300	0.078	0.5	ng/dry g	500	0	60	60 - 140% PASS			
Acenaphthylene	NA	293	0.058	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
Anthracene	NA	423	0.046	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Benz[a]anthracene	NA	747	0.107	0.5	ng/dry g	500	0	149	60 - 140% FAIL			Q
Benzo[a]pyrene	NA	443	0.106	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Benzo[b]fluoranthene	NA	568	0.063	0.5	ng/dry g	500	0	114	60 - 140% PASS			
Benzo[e]pyrene	NA	516	0.098	0.5	ng/dry g	500	0	103	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	459	0.093	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Benzo[k]fluoranthene	NA	484	0.111	0.5	ng/dry g	500	0	97	60 - 140% PASS			
Biphenyl	NA	275	0.092	0.5	ng/dry g	500	0	55	60 - 140% FAIL			Q
Chrysene	NA	501	0.067	0.5	ng/dry g	500	0	100	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	649	0.106	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Dibenzothiophene	NA	445	0.2	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Fluoranthene	NA	619	0.035	0.5	ng/dry g	500	0	124	60 - 140% PASS			
Fluorene	NA	366	0.068	0.5	ng/dry g	500	0	73	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	657	0.087	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Naphthalene	NA	205	0.187	0.5	ng/dry g	500	0	41	60 - 140% FAIL			Q
Perylene	NA	423	0.114	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Phenanthrene	NA	448	0.074	0.5	ng/dry g	500	0	90	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	613	0.048	0.5	ng/dry g	500	0	123	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	70			% Recovery	100	0	70	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	96			% Recovery	100	0	96	59 - 121%	PASS	5	30	PASS	
(d12-Chrysene)	NA	121			% Recovery	100	0	121	52 - 144%	PASS	6	30	PASS	
(d12-Perylene)	NA	91			% Recovery	100	0	91	50 - 150%	PASS	2	30	PASS	
(d8-Naphthalene)	NA	48			% Recovery	100	0	48	31 - 106%	PASS	9	30	PASS	
1,6,7-Trimethylnapthalene	NA	361	0.059	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	264	0.084	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	8	30	PASS	Q
1-Methylphenanthrene	NA	579	0.076	0.5	ng/dry g	500	0	116	60 - 140%	PASS	4	30	PASS	
2,6-Dimethylnaphthalene	NA	299	0.065	0.5	ng/dry g	500	0	60	60 - 140%	PASS	2	30	PASS	
2-Methylnaphthalene	NA	266	0.106	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	6	30	PASS	Q
Acenaphthene	NA	306	0.078	0.5	ng/dry g	500	0	61	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	306	0.058	0.5	ng/dry g	500	0	61	60 - 140%	PASS	3	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	5	30	PASS	
Benz[a]anthracene	NA	732	0.107	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Benzo[a]pyrene	NA	431	0.106	0.5	ng/dry g	500	0	86	60 - 140%	PASS	3	30	PASS	
Benzo[b]fluoranthene	NA	554	0.063	0.5	ng/dry g	500	0	111	60 - 140%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	521	0.098	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS	
Benzo[g,h,i]perylene	NA	452	0.093	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
Benzo[k]fluoranthene	NA	476	0.111	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	287	0.092	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	4	30	PASS	Q
Chrysene	NA	469	0.067	0.5	ng/dry g	500	0	94	60 - 140%	PASS	6	30	PASS	
Dibenz[a,h]anthracene	NA	637	0.106	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
Dibenzothiophene	NA	443	0.2	0.5	ng/dry g	500	0	89	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	592	0.035	0.5	ng/dry g	500	0	118	60 - 140%	PASS	5	30	PASS	
Fluorene	NA	359	0.068	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	641	0.087	0.5	ng/dry g	500	0	128	60 - 140%	PASS	2	30	PASS	
Naphthalene	NA	229	0.187	0.5	ng/dry g	500	0	46	60 - 140%	FAIL	11	30	PASS	Q
Perylene	NA	424	0.114	0.5	ng/dry g	500	0	85	60 - 140%	PASS	0	30	PASS	
Phenanthrene	NA	434	0.074	0.5	ng/dry g	500	0	87	60 - 140%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	585	0.048	0.5	ng/dry g	500	0	117	60 - 140%	PASS	5	30	PASS	
Sample ID: 56415-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	91			% Recovery	100		91	44 - 144%	PASS				
(d10-Phenanthrene)	NA	99			% Recovery	100		99	60 - 134%	PASS				
(d12-Chrysene)	NA	65			% Recovery	100		65	27 - 158%	PASS				
(d12-Perylene)	NA	85			% Recovery	100		85	17 - 160%	PASS				
(d8-Naphthalene)	NA	63			% Recovery	100		63	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.416	0.106	0.5	ug/dry g	0.74		56	60 - 140%	FAIL				1
Benz[a]anthracene	NA	2.89	0.107	0.5	ug/dry g	4.72		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.92	0.106	0.5	ug/dry g	4.3		68	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	4.6	0.063	0.5	ug/dry g	3.87		119	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.48	0.098	0.5	ug/dry g	3.28		106	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.82	0.093	0.5	ug/dry g	2.84		99	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	4.14	0.111	0.5	ug/dry g	4.39		94	60 - 140%	PASS				
Chrysene	NA	4	0.067	0.5	ug/dry g	4.86		82	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.874	0.106	0.5	ug/dry g	0.924		95	60 - 140%	PASS				
Fluoranthene	NA	5.89	0.035	0.5	ug/dry g	8.92		66	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	1.8	0.087	0.5	ug/dry g	2.78		65	60 - 140%	PASS				
Perylene	NA	0.742	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	3.4	0.074	0.5	ug/dry g	5.27		65	60 - 140%	PASS				
Pyrene	NA	5.96	0.048	0.5	ug/dry g	9.7		61	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 23-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 56413-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 24-Jan-19		
Allethrin	NA	644	0.28	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Bifenthrin	NA	527	0.22	0.5	ng/dry g	500	0	105	60 - 140%		PASS	
Cyfluthrin	NA	567	0.25	0.5	ng/dry g	500	0	113	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	647	0.23	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	611	0.21	0.5	ng/dry g	500	0	122	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Esfenvalerate	NA	452	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Fenvalerate	NA	489	0.25	0.5	ng/dry g	500	0	98	60 - 140%		PASS	
Fluvalinate	NA	446	0.23	0.5	ng/dry g	500	0	89	60 - 140%		PASS	
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%		PASS	
Permethrin, trans-	NA	402	0.22	0.5	ng/dry g	358	0	112	60 - 140%		PASS	
Prallethrin	NA	566	0.28	0.5	ng/dry g	500	0	113	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56413-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 24-Jan-19	
Allethrin	NA	629	0.28	0.5	ng/dry g	500	0	126	60 - 140%	PASS	2	30 PASS	
Bifenthrin	NA	545	0.22	0.5	ng/dry g	500	0	109	60 - 140%	PASS	4	30 PASS	
Cyfluthrin	NA	583	0.25	0.5	ng/dry g	500	0	117	60 - 140%	PASS	3	30 PASS	
Cyhalothrin, Total Lambda	NA	663	0.23	0.5	ng/dry g	500	0	133	60 - 140%	PASS	3	30 PASS	
Cypermethrin	NA	556	0.25	0.5	ng/dry g	500	0	111	60 - 140%	PASS	2	30 PASS	
Danitol (Fenpropathrin)	NA	630	0.21	0.5	ng/dry g	500	0	126	60 - 140%	PASS	3	30 PASS	
Deltamethrin/Tralomethrin	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30 PASS	
Esfenvalerate	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30 PASS	
Fenvalerate	NA	485	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS	1	30 PASS	
Fluvalinate	NA	450	0.23	0.5	ng/dry g	500	0	90	60 - 140%	PASS	1	30 PASS	
Permethrin, cis-	NA	158	0.17	0.5	ng/dry g	134	0	118	60 - 140%	PASS	3	30 PASS	
Permethrin, trans-	NA	412	0.22	0.5	ng/dry g	358	0	115	60 - 140%	PASS	3	30 PASS	
Prallethrin	NA	422	0.28	0.5	ng/dry g	500	0	84	60 - 140%	PASS	29	30 PASS	

CHAIN OF CUSTODY

1807003-004

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSES REQUESTED: SEE ATTACHED LIST OF ANALYTES
	7/12/2018	14:00	sediment	B18-10015	3	X
	7/12/2018	12:15	sediment	B18-10016	3	X
	7/12/2018	15:57	sediment	B18-10438 (overdraw)	3	X
	7/12/2018	07:15	sediment	B18-10020	3	X
	7/12/2018	11:08	sediment	B18-10073	3	X
	7/12/2018	09:52	sediment	B18-10074	3	X
	7/12/2018	08:30	sediment	B18-10075	3	X
	7/13/2018	08:30	sediment	B18-10017	3	X
	7/13/2018	06:55	sediment	B18-10019	3	X

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Mark Sinsel	07/13/18 13:58	RHS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSES REQUESTED: SEE ATTACHED LIST OF ANALYTES	COMMENTS
	7/11/2018	12:10	sediment	B18-10069	3	X	
	7/11/2018	10:55	sediment	B18-10070	3	X	
	7/11/2018	10:00	sediment	B18-10071	3	X	
	7/11/2018	13:45	sediment	B18-10072	3	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Marin Arishi	07/13/18 13:58	RBS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

a. Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

b. USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

c. Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2.3,5-Trimethylnaphthalene.

d. Includes cis-chlordane, trans-chlordane, o.p'-DDT, p,p'-DDT, o.p'-DDD, p,p'-DDD, o.p'-DDE, p.p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

e. Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

f. Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194,195, 200, 201, 203, 206, and 209.

g. Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-004

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/13/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 6	☐ BLUE ☑ WET ☐ DRY
Start 11:45 End 16:00 ☐ Other:	☐ Other :	☐ None 6 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 05, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-006

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/18/2018. A total of 10 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-006

2018 Regional Harbor Monitoring Program Total Samples: 10

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56514	B18-10023		7/16/2018	12:30	Sediment
56515	B18-10030		7/16/2018	14:37	Sediment
56516	B18-10078		7/16/2018	10:24	Sediment
56517	B18-10079		7/16/2018	9:24	Sediment
56518	B18-10117		7/16/2018	7:39	Sediment
56519	B18-10080		7/17/2018	8:15	Sediment
56520	B18-10081		7/17/2018	7:22	Sediment
56521	B18-10082		7/17/2018	9:20	Sediment
56522	B18-10083		7/17/2018	10:20	Sediment
56523	B18-10084		7/17/2018	11:15	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	79			NA		O-21008	02-Jan-19	26-Jan-19
(PCB112)	EPA 8270D	% Recovery	76			NA		O-21008	02-Jan-19	26-Jan-19
(PCB198)	EPA 8270D	% Recovery	92			NA		O-21008	02-Jan-19	26-Jan-19
(TCMX)	EPA 8270D	% Recovery	71			NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	26-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	26-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	26-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	26-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	26-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	15-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	83			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	80			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	98			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	77			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**10:24**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	76			NA		O-21008	02-Jan-19	27-Jan-19
(PCB112)	EPA 8270D	% Recovery	68			NA		O-21008	02-Jan-19	27-Jan-19
(PCB198)	EPA 8270D	% Recovery	82			NA		O-21008	02-Jan-19	27-Jan-19
(TCMX)	EPA 8270D	% Recovery	71			NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.975	0.198	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.69	0.193	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21008	02-Jan-19	27-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21008	02-Jan-19	27-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21008	02-Jan-19	27-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21008	02-Jan-19	27-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21008	02-Jan-19	27-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21008	02-Jan-19	16-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**9:24**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	68			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	73			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.614	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**7:39**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	57			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	66			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	65			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	54			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.671	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**8:15**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	51			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	53			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	54			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	48			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.736	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**7:22**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	72			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	61			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.972	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.23	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	1.08	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	1.6	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.699	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.888	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**9:20**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	55			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	65			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	51			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.517	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	52			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	55			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	49			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.689	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**11:15**	**Received: 18-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	44			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	48			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	49			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	43			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.779	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56514-R1	**B18-10023**			**Matrix: Sediment**		**Sampled: 16-Jul-18**		**12:30**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	23.9	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.24	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	71.2	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.02	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.32	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	272	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Sample ID: 56515-R1	**B18-10030**			**Matrix: Sediment**		**Sampled: 16-Jul-18**		**14:37**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	2.04	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	16	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	79.7	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.17	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	187	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Sample ID: 56516-R1	**B18-10078**			**Matrix: Sediment**		**Sampled: 16-Jul-18**		**10:24**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	12.2	0.05	0.1	NA		C-41074	04-Jan-19	04-Jan-19	10:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	12.7	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	55.2	0.1	0.1	NA		C-35147	31-Dec-18	31-Dec-18	9:35
Total Nitrogen	EPA 9060	% dry weight	0.07	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Organic Carbon	EPA 9060	% dry weight	0.92	0.01	0.01	NA		O-19048	10-Jan-19	10-Jan-19	17:20
Total Phosphorus	EPA 6020	µg/dry g	570	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**9:24**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	5.74	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.84	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	64.8	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.06	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	0.71	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	511	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Sample ID: 56518-R1	**B18-10117**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**7:39**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	266	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	32.1	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	47.7	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.22	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	1.89	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	847	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Sample ID: 56519-R1	**B18-10080**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**8:15**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	2.41	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	7.85	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	47.9	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	1.32	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	784	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**7:22**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	5.04	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.29	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	53.6	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	1.16	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	596	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Sample ID: 56521-R1	**B18-10082**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**9:20**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	3.37	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.88	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	54	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	0.98	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	600	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Sample ID: 56522-R1	**B18-10083**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	14.8	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19 13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	17.4	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19 11:30
Percent Solids	SM 2540 B	%	54.5	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19 8:00
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Organic Carbon	EPA 9060	% dry weight	1.22	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19 13:00
Total Phosphorus	EPA 6020	µg/dry g	569	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56523-R1	**B18-10084**			**Matrix: Sediment**		**Sampled: 17-Jul-18**		**11:15**	**Received: 18-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	3.19	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.4	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	48.2	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.14	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.43	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	719	0.016	0.05	NA		E-14068	24-Dec-18	06-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	10200	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.152	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	2.95	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	33.1	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.133	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0708	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	16.6	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	19.4	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	10900	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	7.82	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0627	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:31
Nickel (Ni)	EPA 6020	µg/dry g	4.19	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.143	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.112	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	46.9	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**14:37**		**Received: 18-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	2860	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0877	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	2.46	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	8.67	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.0418	0.025	0.05	NA	J	E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.025	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	5.36	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	3.17	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	4060	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	2.65	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0086	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:36
Nickel (Ni)	EPA 6020	µg/dry g	1.2	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.0969	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0407	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	10.8	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**10:24**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	26000	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	1.64	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.47	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	75.2	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.503	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.17	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	47.2	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	158	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	24700	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	34.1	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	1.07	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:39
Nickel (Ni)	EPA 6020	µg/dry g	11.8	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.386	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.479	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	170	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**9:24**		**Received: 18-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	20100	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.241	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.18	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	63.1	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.333	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.147	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	34.9	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	92.8	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	20100	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	22.7	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.516	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:41
Nickel (Ni)	EPA 6020	µg/dry g	9.01	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.278	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.352	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	119	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**7:39**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	31100	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.263	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.45	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	111	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.657	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.512	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	48	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	79.3	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	31100	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	20.4	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.174	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:44
Nickel (Ni)	EPA 6020	µg/dry g	16.6	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.695	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.341	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	159	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**8:15**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	39800	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.245	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	14.6	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	97.4	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.807	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.258	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	66	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	242	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	40600	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	51.7	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	1.84	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:46
Nickel (Ni)	EPA 6020	µg/dry g	18	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.507	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.42	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	268	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**7:22**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	30000	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.335	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.91	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	90.4	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.651	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.15	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	49.8	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	219	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	29500	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	41.3	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	1.43	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:48
Nickel (Ni)	EPA 6020	µg/dry g	13	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.397	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.324	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	203	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56521-R1	**B18-10082**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**9:20**		**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	28500	1	5	NA		E-14068	24-Dec-18	06-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.215	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	10.3	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	81.5	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.568	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.127	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	47.8	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	164	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	28700	1	5	NA		E-14068	24-Dec-18	06-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	32.2	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.887	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19	18:51
Nickel (Ni)	EPA 6020	µg/dry g	12.2	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.355	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.27	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	178	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	25600	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.208	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.81	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	72.4	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.529	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.157	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	44.8	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	173	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	25600	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	27	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.616	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:53
Nickel (Ni)	EPA 6020	µg/dry g	12.2	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.415	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.337	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	169	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**11:15**	**Received: 18-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	30100	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.24	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	10.1	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	94.2	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.547	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.184	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	53.6	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	149	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	31300	1	5	NA		E-14068	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	29.6	0.0025	0.005	NA		E-14068	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.641	0.00001	0.00002	NA		E-15085	08-Jan-19	08-Jan-19 18:56
Nickel (Ni)	EPA 6020	µg/dry g	15.2	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.478	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.478	0.01	0.02	NA		E-14068	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	178	0.025	0.05	NA		E-14068	24-Dec-18	06-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**12:30**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0775	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0226	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00607	0.0033	0.0066	NA	J	E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.326	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**14:37**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0168	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0041	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	ND	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.0375	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**10:24**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.94	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.109	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0124	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.53	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**			**Matrix: Sediment**		**Sampled: 16-Jul-18**		**9:24**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.568	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0755	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0105	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.01	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56518-R1	**B18-10117**			**Matrix: Sediment**		**Sampled: 16-Jul-18**		**7:39**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.0026	0.0018	0.0036	NA	J	E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.068	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0572	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0266	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.08	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56519-R1	**B18-10080**			**Matrix: Sediment**		**Sampled: 17-Jul-18**		**8:15**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	2.23	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.166	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0298	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.67	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**			**Matrix: Sediment**		**Sampled: 17-Jul-18**		**7:22**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.93	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.153	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0115	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.98	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56521-R1	**B18-10082**			**Matrix: Sediment**		**Sampled: 17-Jul-18**		**9:20**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.55	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0987	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0106	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.64	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19
Sample ID: 56522-R1	**B18-10083**			**Matrix: Sediment**		**Sampled: 17-Jul-18**		**10:20**	**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.34	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0951	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0131	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.55	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**			**Matrix: Sediment**		**Sampled: 17-Jul-18**	**11:15**		**Received: 18-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16155	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	1.43	0.0062	0.0124	NA		E-16155	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.118	0.0002	0.0004	NA		E-16155	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0211	0.0033	0.0066	NA		E-16155	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16155	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.77	0.0015	0.003	NA		E-16155	08-Jan-19	09-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**12:30**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	15-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	0.423	0.25	0.5	NA	J	O-21008	02-Jan-19	15-Jan-19
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**14:37**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**10:24**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	16-Jan-19
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**9:24**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**7:39**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**8:15**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**7:22**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**9:20**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**10:20**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**11:15**	**Received: 18-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18 12:30**			**Received: 18-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	12.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	21	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	23.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	16.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
Gravel	SM 2560 D	%	55.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	3.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	9.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	12.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**10:24**	**Received: 18-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	13.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	14.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	11.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	3.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18 9:24**			**Received: 18-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	10.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	10.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	13.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	11.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	8.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**7:39**	**Received: 18-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	9.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	13	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	7.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	8.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	7.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	7.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**8:15**	**Received: 18-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	7.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	17.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	5.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	7.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18 7:22**			**Received: 18-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	16.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	7.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	7.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	6.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**9:20**	**Received: 18-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	10.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	14.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18 10:20**			**Received: 18-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	10.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	14.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18 11:15**		**Received: 18-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	15.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	9.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB095	EPA 8270D	ng/dry g	0.102	0.1	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.175	0.027	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB138	EPA 8270D	ng/dry g	0.315	0.057	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB149	EPA 8270D	ng/dry g	0.174	0.092	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB153	EPA 8270D	ng/dry g	0.336	0.065	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB158	EPA 8270D	ng/dry g	0.175	0.074	0.2	NA	J	O-21008	02-Jan-19	26-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	26-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	26-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	26-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	ND	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**10:24**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB028	EPA 8270D	ng/dry g	0.976	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB031	EPA 8270D	ng/dry g	0.396	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB044	EPA 8270D	ng/dry g	4.19	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB049	EPA 8270D	ng/dry g	2.48	0.036	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB052	EPA 8270D	ng/dry g	11.4	0.012	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	1.78	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB066	EPA 8270D	ng/dry g	4.86	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB070	EPA 8270D	ng/dry g	7.98	0.023	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB074	EPA 8270D	ng/dry g	2.16	0.021	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB077	EPA 8270D	ng/dry g	0.623	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB087	EPA 8270D	ng/dry g	9.63	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB095	EPA 8270D	ng/dry g	16.7	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB097	EPA 8270D	ng/dry g	8.13	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB099	EPA 8270D	ng/dry g	9.92	0.028	0.2	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	22.5	0.027	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB105	EPA 8270D	ng/dry g	4.25	0.047	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB110	EPA 8270D	ng/dry g	21.4	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB118	EPA 8270D	ng/dry g	18.8	0.069	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB128	EPA 8270D	ng/dry g	3.44	0.081	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB137	EPA 8270D	ng/dry g	0.785	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB138	EPA 8270D	ng/dry g	22.7	0.057	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB141	EPA 8270D	ng/dry g	2.54	0.1	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB149	EPA 8270D	ng/dry g	13.3	0.092	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB151	EPA 8270D	ng/dry g	3.92	0.073	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB153	EPA 8270D	ng/dry g	14.7	0.065	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB156	EPA 8270D	ng/dry g	1.91	0.089	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB158	EPA 8270D	ng/dry g	2.32	0.074	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB167	EPA 8270D	ng/dry g	0.784	0.049	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB168+132	EPA 8270D	ng/dry g	4.57	0.094	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21008	02-Jan-19	27-Jan-19
PCB170	EPA 8270D	ng/dry g	2.17	0.118	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB174	EPA 8270D	ng/dry g	2.31	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB177	EPA 8270D	ng/dry g	1.72	0.085	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB180	EPA 8270D	ng/dry g	6.73	0.154	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.55	0.056	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB187	EPA 8270D	ng/dry g	2.88	0.168	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB194	EPA 8270D	ng/dry g	1.25	0.164	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	1.25	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB201	EPA 8270D	ng/dry g	0.176	0.104	0.25	NA	J	O-21008	02-Jan-19	27-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB206	EPA 8270D	ng/dry g	0.907	0.155	0.25	NA		O-21008	02-Jan-19	27-Jan-19
PCB209	EPA 8270D	ng/dry g	0.663	0.12	0.25	NA		O-21008	02-Jan-19	27-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**9:24**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	0.707	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	0.424	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	1.3	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	1.14	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.444	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	1.4	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	1.74	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	1.73	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.37	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	0.844	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	3.07	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	3.75	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	0.316	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	5.48	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	0.537	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	2.67	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.897	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	3.98	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	0.544	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.602	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	1.02	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.618	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.524	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	1.48	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.503	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	1.07	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.602	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.952	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**7:39**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.287	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.37	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.477	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.343	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.489	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	0.825	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.396	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	0.797	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.2	0.12	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.124	0.056	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.403	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**8:15**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	0.33	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	0.641	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	0.292	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	0.553	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	1.04	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	0.436	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	1.27	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	0.746	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.419	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.914	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.978	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	1.41	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.852	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	1.14	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	1.45	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	1.08	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.475	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	1.7	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.319	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.374	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	0.342	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.422	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.376	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	0.914	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.343	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.744	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.406	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.265	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**7:22**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	0.311	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	0.636	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	0.389	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	1.95	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	0.626	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.563	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	0.345	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	1.47	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	0.575	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	1.86	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	2.4	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	1.54	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	1.87	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	4.1	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	2.25	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.906	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	3.58	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.375	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.603	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.802	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.656	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	2.4	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.631	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	1.67	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.847	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.644	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**9:20**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	0.221	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	0.618	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	0.367	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.171	0.021	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.557	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.67	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.972	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.484	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.661	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	1.47	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.84	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.429	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	1.45	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.173	0.074	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.264	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.311	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.23	0.085	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	0.881	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.304	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.665	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.479	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.344	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	0.233	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	0.38	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.347	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.579	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.68	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.412	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.445	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	1.5	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.908	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.344	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	1.78	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.303	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.326	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	0.332	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.375	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.412	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	1.08	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.304	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.69	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.3	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.147	0.12	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**11:15**	**Received: 18-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.333	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.337	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.549	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.366	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.431	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	1.24	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.673	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.22	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	1.2	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.154	0.094	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.346	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.29	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	0.709	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.244	0.056	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.551	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.342	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.208	0.12	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**12:30**	**Received: 18-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	94			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	94			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.229	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.667	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	108			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	104			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.201	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**10:24**	**Received: 18-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	93			NA		O-21008	02-Jan-19	16-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	98			NA		O-21008	02-Jan-19	16-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.298	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.307	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	5.39	0.05	0.1	NA		O-21008	02-Jan-19	16-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**9:24**	**Received: 18-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	96			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.92	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**7:39**	**Received: 18-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	62			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	94			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.944	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**8:15**	**Received: 18-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	65			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	81			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**7:22**	**Received: 18-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	74			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	90			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.431	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.369	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.31	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18**		**9:20**	**Received: 18-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	72			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	86			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.411	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.469	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.325	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	61			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	78			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.904	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**11:15**	**Received: 18-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	61			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	67			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.34	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.02	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**		**12:30**	**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69			NA		O-21008	02-Jan-19	26-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	88			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	113			NA		O-21008	02-Jan-19	26-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	92			NA		O-21008	02-Jan-19	26-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	44			NA		O-21008	02-Jan-19	26-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.18	0.059	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.93	0.084	0.5	NA		O-21008	02-Jan-19	26-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.5	0.076	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.758	0.065	0.5	NA		O-21008	02-Jan-19	26-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.9	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.493	0.058	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.53	0.046	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	14.3	0.107	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	7.44	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	8.9	0.063	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	6.51	0.098	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	6.73	0.093	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	7.67	0.111	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.391	0.092	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Chrysene	EPA 8270D	ng/dry g	6.93	0.067	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.68	0.106	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.485	0.2	0.5	NA	J	O-21008	02-Jan-19	26-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	9.88	0.035	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.743	0.068	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	17.9	0.087	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.97	0.187	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Perylene	EPA 8270D	ng/dry g	1.72	0.114	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	5.57	0.074	0.5	NA		O-21008	02-Jan-19	26-Jan-19
Pyrene	EPA 8270D	ng/dry g	10.1	0.048	0.5	NA		O-21008	02-Jan-19	26-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	81			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	94			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	123			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	95			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	60			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.59	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.05	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.29	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.743	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.22	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.0927	0.058	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.305	0.046	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	1.85	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	0.66	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	1.06	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	0.794	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	0.647	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	0.844	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.405	0.092	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	1.3	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	ND	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.303	0.2	0.5	NA	J	O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	3.34	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.593	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	2.18	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	3.11	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	ND	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	4.37	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	2.69	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**			**Matrix: Sediment**		**Sampled: 16-Jul-18**	**10:24**	**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	69			NA		O-21008	02-Jan-19	27-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	81			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	131			NA		O-21008	02-Jan-19	27-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	84			NA		O-21008	02-Jan-19	27-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	53			NA		O-21008	02-Jan-19	27-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.78	0.059	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.94	0.084	0.5	NA		O-21008	02-Jan-19	27-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	9.76	0.076	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.41	0.065	0.5	NA		O-21008	02-Jan-19	27-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	5.11	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	4.82	0.078	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	9.17	0.058	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Anthracene	EPA 8270D	ng/dry g	28.9	0.046	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	234	0.107	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	228	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	283	0.063	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	188	0.098	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	153	0.093	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	258	0.111	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.33	0.092	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Chrysene	EPA 8270D	ng/dry g	263	0.067	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	86.3	0.106	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.73	0.2	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	202	0.035	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	4.94	0.068	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	239	0.087	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Naphthalene	EPA 8270D	ng/dry g	7.94	0.187	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Perylene	EPA 8270D	ng/dry g	49.7	0.114	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	47.2	0.074	0.5	NA		O-21008	02-Jan-19	27-Jan-19
Pyrene	EPA 8270D	ng/dry g	214	0.048	0.5	NA		O-21008	02-Jan-19	27-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**			**Matrix: Sediment**		**Sampled: 16-Jul-18 9:24**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	74			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	87			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	96			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	83			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	53			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.23	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.77	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	9.1	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.71	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.71	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	4.51	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	3.31	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	21.8	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	203	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	186	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	267	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	150	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	112	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	212	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.798	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	170	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	80	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.32	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	223	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	3.7	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	218	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.5	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	37.8	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	41.5	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	221	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18 7:39**		**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	61			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	70			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	79			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	41			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.56	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.39	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	8.74	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	3.31	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.85	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	6.28	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	2.73	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	34.8	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	163	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	117	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	189	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	105	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	65.1	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	141	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.64	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	131	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	62.3	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	4	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	159	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	9.59	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	178	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.44	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	25.2	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	54.1	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	159	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**			**Matrix: Sediment**		**Sampled: 17-Jul-18 8:15**		**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	48			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	70			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	58			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	24			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.37	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.09	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	11.1	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.11	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.57	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.943	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	2.9	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	23.2	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	134	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	74.9	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	118	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	62.6	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	40.1	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	102	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.52	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	124	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	38.4	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.49	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	83.2	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	3.02	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	122	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.14	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	12.9	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	30.4	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	77.3	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**			**Matrix: Sediment**		**Sampled: 17-Jul-18 7:22**			**Received: 18-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	79			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	49			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.17	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.73	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	7.86	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.81	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.43	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	1.23	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	2.55	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	7.99	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	89.4	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	93.9	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	174	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	86.6	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	87.3	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	128	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.656	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	54.7	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	60.6	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.11	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	102	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.51	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	178	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.49	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	17.5	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	30.8	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	93	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**			**Matrix: Sediment**		**Sampled: 17-Jul-18 9:20**		**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	56			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	79			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	43			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.36	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.64	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.23	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.4	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.55	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.483	0.078	0.5	NA	J	O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	1.25	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	2.63	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	39.6	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	28.2	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	45	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	26.1	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	25.9	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	34.7	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	2.06	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	17.9	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	18.9	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.904	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	32.6	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.28	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	76.3	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	4.13	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	5.71	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	11.9	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	33.4	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**			**Matrix: Sediment**		**Sampled: 17-Jul-18 10:20**		**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	53			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	69			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	66			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	40			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.24	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.18	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.07	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.13	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.48	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.504	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	2.1	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	6.86	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	68.2	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	55.2	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	91.9	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	50.3	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	40.3	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	73.8	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.499	0.092	0.5	NA	J	O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	44.4	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	31.4	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.01	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	63.2	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.49	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	109	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	3.34	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	10.6	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	14.8	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	56.1	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18 11:15**		**Received: 18-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	47			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	49			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	57			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	55			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	37			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.53	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.55	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.76	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.47	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.1	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.774	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	2.64	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	8.87	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	96	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	72.1	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	110	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	62.2	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	46.5	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	85.6	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.714	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	57.8	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	41	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.31	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	64.9	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.93	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	132	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	3.92	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	14.2	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	17.3	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	63.3	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56514-R1	**B18-10023**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56515-R1	**B18-10030**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**14:37**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	24-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	24-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56516-R1	**B18-10078**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**10:24**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.325	0.22	0.5	NA	J	O-21008	02-Jan-19	25-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21008	02-Jan-19	25-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21008	02-Jan-19	25-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56517-R1	**B18-10079**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**9:24**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56518-R1	**B18-10117**		**Matrix: Sediment**			**Sampled: 16-Jul-18**	**7:39**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.972	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56519-R1	**B18-10080**		**Matrix: Sediment**			**Sampled: 17-Jul-18 8:15**		**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.944	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56520-R1	**B18-10081**		**Matrix: Sediment**			**Sampled: 17-Jul-18 7:22**		**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	1.95	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.12	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56521-R1	**B18-10082**		**Matrix: Sediment**			**Sampled: 17-Jul-18 9:20**		**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56522-R1	**B18-10083**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**10:20**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.232	0.22	0.5	NA	J	O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56523-R1	**B18-10084**		**Matrix: Sediment**			**Sampled: 17-Jul-18**	**11:15**	**Received: 18-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 04-Jan-19**			**Analyzed: 04-Jan-19**	
20646-B1	QAQC Procedural Blank	C-41074	ND	0.05	0.1	mg/dry kg								
20646-BS1	QAQC Procedural Blank	C-41074	21.6	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS			
20646-BS2	QAQC Procedural Blank	C-41074	21.7	0.05	0.1	mg/dry kg	22.3	0	97	80 - 120%	PASS	0	25	PASS
56510-B1	QAQC Procedural Blank	C-41075	ND	0.05	0.1	mg/dry kg								
56510-BS1	QAQC Procedural Blank	C-41075	19.1	0.05	0.1	mg/dry kg	20.1	0	95	80 - 120%	PASS			
56510-BS2	QAQC Procedural Blank	C-41075	19.1	0.05	0.1	mg/dry kg	20.1	0	95	80 - 120%	PASS	0	25	PASS
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**	
56510-B1	QAQC Procedural Blank	C-39072	ND	0.02	0.03	mg/dry kg								
56510-BS1	QAQC Procedural Blank	C-39072	1.59	0.02	0.03	mg/dry kg	1.59	0	100	80 - 120%	PASS			
56510-BS2	QAQC Procedural Blank	C-39072	1.67	0.02	0.03	mg/dry kg	1.59	0	105	80 - 120%	PASS	5	25	PASS
56514-MS1	B18-10023	C-39072	17.3	0.02	0.03	mg/dry kg	6.81	9.12	120	80 - 120%	PASS			
56514-MS2	B18-10023	C-39072	16.8	0.02	0.03	mg/dry kg	6.53	9.12	118	80 - 120%	PASS	2	25	PASS
56514-R2	B18-10023	C-39072	9	0.02	0.03	mg/dry kg						3	25	PASS
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 31-Dec-18**			**Analyzed: 31-Dec-18**	
20646-B1	QAQC Procedural Blank	C-35147	ND	0.1	0.1	%								
56510-B1	QAQC Procedural Blank	C-35149	ND	0.1	0.1	%								
56517-R2	B18-10079	C-35149	64.9	0.1	0.1	%						0	25	PASS
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
20646-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight								
56514-R2	B18-10023	O-19048	0.02	0.01	0.01	% dry weight						0	25	PASS
56510-B1	QAQC Procedural Blank	O-19050	ND	0.01	0.01	% dry weight								
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
20646-B1	QAQC Procedural Blank	O-19048	ND	0.01	0.01	% dry weight								
20647-CRM1	QAQC CRM - SRM 1944	O-19048	4.56	0.01	0.01	% dry weight	4.4		104	80 - 120%	PASS			
56514-R2	B18-10023	O-19048	0.32	0.01	0.01	% dry weight						0	20	PASS
56510-B1	QAQC Procedural Blank	O-19050	ND	0.01	0.01	% dry weight								
56512-CRM1	QAQC CRM - SRM 1944	O-19050	4.1	0.01	0.01	% dry weight	4.4		93	80 - 120%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Total Phosphorus		**Method: EPA 6020**				**Fraction: NA**		**Prepared: 24-Dec-18**			**Analyzed: 06-Feb-19**		
56510-B1	QAQC Procedural Blank	E-14068	ND	0.016	0.05	µg/dry g							
56510-BS1	QAQC Procedural Blank	E-14068	5.02	0.016	0.05	µg/dry g	5	0	100	80 - 120% PASS			
56510-BS2	QAQC Procedural Blank	E-14068	5.1	0.016	0.05	µg/dry g	5	0	102	80 - 120% PASS	2	25 PASS	
56514-MS1	B18-10023	E-14068	411	0.016	0.05	µg/dry g	152	272	91	80 - 120% PASS			
56514-MS2	B18-10023	E-14068	418	0.016	0.05	µg/dry g	152	272	96	80 - 120% PASS	5	25 PASS	
56514-R2	B18-10023	E-14068	272	0.016	0.05	µg/dry g					0	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19	
(PCB030)	NA	86			% Recovery	100	86	50 - 123%	PASS			
(PCB112)	NA	86			% Recovery	100	86	53 - 129%	PASS			
(PCB198)	NA	96			% Recovery	100	96	51 - 131%	PASS			
(TCMX)	NA	74			% Recovery	100	74	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(PCB030)	NA	84			% Recovery	100	0	84	50 - 123% PASS			
(PCB112)	NA	87			% Recovery	100	0	87	53 - 129% PASS			
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131% PASS			
(TCMX)	NA	68			% Recovery	100	0	68	45 - 117% PASS			
2,4'-DDD	NA	468	0.267	0.5	ng/dry g	500	0	94	60 - 140% PASS			
2,4'-DDE	NA	447	0.2	0.5	ng/dry g	500	0	89	60 - 140% PASS			
2,4'-DDT	NA	504	0.194	0.5	ng/dry g	500	0	101	60 - 140% PASS			
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140% PASS			
4,4'-DDE	NA	452	0.193	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDMU	NA	463	0.223	0.5	ng/dry g	500	0	93	60 - 140% PASS			
4,4'-DDT	NA	649	0.128	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Aldrin	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140% PASS			
BHC-alpha	NA	426	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
BHC-beta	NA	456	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140% PASS			
BHC-gamma	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-alpha	NA	424	0.187	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Chlordane-gamma	NA	475	0.179	0.5	ng/dry g	500	0	95	60 - 140% PASS			
cis-Nonachlor	NA	424	0.192	0.5	ng/dry g	500	0	85	60 - 140% PASS			
DCPA (Dacthal)	NA	510	5	10	ng/dry g	500	0	102	60 - 140% PASS			
Dicofol	NA	273	2.5	5	ng/dry g	500	0	55	60 - 140% FAIL			Q
Dieldrin	NA	428	0.1	0.2	ng/dry g	500	0	86	60 - 140% PASS			
Endosulfan Sulfate	NA	375	0.25	0.5	ng/dry g	500	0	75	60 - 140% PASS			
Endosulfan-I	NA	61.5	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endosulfan-II	NA	183	0.25	0.5	ng/dry g	500	0	37	60 - 140% FAIL			Q
Endrin	NA	543	0.25	0.5	ng/dry g	500	0	109	60 - 140% PASS			
Endrin Aldehyde	NA	58.9	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endrin Ketone	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			
Heptachlor	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	470	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Hexachlorobenzene	NA	392	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS			
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	FAIL			Q
Mirex	NA	445	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS			
Oxychlordane	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Perthane	NA	647	5	10	ng/dry g	500	0	129	60 - 140%	PASS			
trans-Nonachlor	NA	424	0.186	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
Toxaphene	NA	5530	10	20	ng/dry g	5000	0	111	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19			
(PCB030)	NA	86			% Recovery	100	0	86	50 - 123%	PASS	2	30	PASS	
(PCB112)	NA	89			% Recovery	100	0	89	53 - 129%	PASS	2	30	PASS	
(PCB198)	NA	96			% Recovery	100	0	96	51 - 131%	PASS	1	30	PASS	
(TCMX)	NA	73			% Recovery	100	0	73	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	475	0.267	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
2,4'-DDE	NA	464	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
2,4'-DDT	NA	522	0.194	0.5	ng/dry g	500	0	104	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	485	0.198	0.5	ng/dry g	500	0	97	60 - 140%	PASS	0	30	PASS	
4,4'-DDE	NA	461	0.193	0.5	ng/dry g	500	0	92	60 - 140%	PASS	2	30	PASS	
4,4'-DDMU	NA	475	0.223	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	651	0.128	0.5	ng/dry g	500	0	130	60 - 140%	PASS	0	30	PASS	
Aldrin	NA	501	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	2	30	PASS	
BHC-alpha	NA	439	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-beta	NA	469	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	430	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
BHC-gamma	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Chlordane-alpha	NA	444	0.187	0.5	ng/dry g	500	0	89	60 - 140%	PASS	5	30	PASS	
Chlordane-gamma	NA	488	0.179	0.5	ng/dry g	500	0	98	60 - 140%	PASS	3	30	PASS	
cis-Nonachlor	NA	440	0.192	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
DCPA (Dacthal)	NA	516	5	10	ng/dry g	500	0	103	60 - 140%	PASS	1	30	PASS	
Dicofol	NA	257	2.5	5	ng/dry g	500	0	51	60 - 140%	FAIL	8	30	PASS	Q
Dieldrin	NA	465	0.1	0.2	ng/dry g	500	0	93	60 - 140%	PASS	8	30	PASS	
Endosulfan Sulfate	NA	384	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	69.8	0.25	0.5	ng/dry g	500	0	14	60 - 140%	FAIL	15	30	PASS	Q
Endosulfan-II	NA	200	0.25	0.5	ng/dry g	500	0	40	60 - 140%	FAIL	8	30	PASS	Q
Endrin	NA	597	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	9	30	PASS	
Endrin Aldehyde	NA	65	0.25	0.5	ng/dry g	500	0	13	60 - 140%	FAIL	8	30	PASS	Q
Endrin Ketone	NA	459	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	3	30	PASS	
Heptachlor	NA	540	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%	PASS	1	30	PASS	
Hexachlorobenzene	NA	412	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
Methoxychlor	NA	749	0.25	0.5	ng/dry g	500	0	150	60 - 140%	FAIL	0	30	PASS	Q
Mirex	NA	467	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	4	30	PASS	
Oxychlordane	NA	437	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
Perthane	NA	642	5	10	ng/dry g	500	0	128	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	436	0.186	0.5	ng/dry g	500	0	87	60 - 140%	PASS	2	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Toxaphene	NA	5380	10	20	ng/dry g	5000	0	108	60 - 140%	PASS	3	30	PASS	
Sample ID: 20647-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(PCB030)	NA	88			% Recovery	100		88	33 - 149%	PASS				
(PCB112)	NA	92			% Recovery	100		92	49 - 120%	PASS				
(PCB198)	NA	42			% Recovery	100		42	35 - 123%	PASS				
(TCMX)	NA	87			% Recovery	100		87	37 - 138%	PASS				
2,4'-DDD	NA	35.3	0.267	0.5	ng/dry g	38		93	60 - 140%	PASS				
2,4'-DDE	NA	19.4	0.2	0.5	ng/dry g	19		102	60 - 140%	PASS				
4,4'-DDD	NA	87	0.198	0.5	ng/dry g	108		81	60 - 140%	PASS				
4,4'-DDE	NA	92.8	0.193	0.5	ng/dry g	86		108	60 - 140%	PASS				
4,4'-DDT	NA	154	0.128	0.5	ng/dry g	170		91	60 - 140%	PASS				
Chlordane-alpha	NA	18.9	0.187	0.5	ng/dry g	16.5		115	60 - 140%	PASS				
Chlordane-gamma	NA	23.9	0.179	0.5	ng/dry g	19		126	60 - 140%	PASS				
cis-Nonachlor	NA	3.85	0.192	0.5	ng/dry g	3.7		104	60 - 140%	PASS				
Hexachlorobenzene	NA	5.38	0.25	0.5	ng/dry g	6		90	60 - 140%	PASS				
trans-Nonachlor	NA	10.2	0.186	0.5	ng/dry g	8.2		124	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19	
(PCB030)	NA	75			% Recovery	100	75	50 - 123%	PASS			
(PCB112)	NA	79			% Recovery	100	79	53 - 129%	PASS			
(PCB198)	NA	95			% Recovery	100	95	51 - 131%	PASS			
(TCMX)	NA	67			% Recovery	100	67	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21010			Prepared: 04-Jan-19		Analyzed: 17-Jan-19		
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(PCB030)	NA	76			% Recovery	100	0	76	50 - 123% PASS			
(PCB112)	NA	79			% Recovery	100	0	79	53 - 129% PASS			
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131% PASS			
(TCMX)	NA	67			% Recovery	100	0	67	45 - 117% PASS			
2,4'-DDD	NA	427	0.267	0.5	ng/dry g	500	0	85	60 - 140% PASS			
2,4'-DDE	NA	408	0.2	0.5	ng/dry g	500	0	82	60 - 140% PASS			
2,4'-DDT	NA	424	0.194	0.5	ng/dry g	500	0	85	60 - 140% PASS			
4,4'-DDD	NA	464	0.198	0.5	ng/dry g	500	0	93	60 - 140% PASS			
4,4'-DDE	NA	424	0.193	0.5	ng/dry g	500	0	85	60 - 140% PASS			
4,4'-DDMU	NA	458	0.223	0.5	ng/dry g	500	0	92	60 - 140% PASS			
4,4'-DDT	NA	580	0.128	0.5	ng/dry g	500	0	116	60 - 140% PASS			
Aldrin	NA	481	0.25	0.5	ng/dry g	500	0	96	60 - 140% PASS			
BHC-alpha	NA	378	0.25	0.5	ng/dry g	500	0	76	60 - 140% PASS			
BHC-beta	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
BHC-delta	NA	387	0.25	0.5	ng/dry g	500	0	77	60 - 140% PASS			
BHC-gamma	NA	380	0.25	0.5	ng/dry g	500	0	76	60 - 140% PASS			
Chlordane-alpha	NA	373	0.187	0.5	ng/dry g	500	0	75	60 - 140% PASS			
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140% PASS			
cis-Nonachlor	NA	377	0.192	0.5	ng/dry g	500	0	75	60 - 140% PASS			
DCPA (Dacthal)	NA	498	5	10	ng/dry g	500	0	100	60 - 140% PASS			
Dicofol	NA	530	2.5	5	ng/dry g	500	0	106	60 - 140% PASS			
Dieldrin	NA	404	0.1	0.2	ng/dry g	500	0	81	60 - 140% PASS			
Endosulfan Sulfate	NA	358	0.25	0.5	ng/dry g	500	0	72	60 - 140% PASS			
Endosulfan-I	NA	14.5	0.25	0.5	ng/dry g	500	0	3	60 - 140% FAIL			Q
Endosulfan-II	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140% FAIL			Q
Endrin	NA	464	0.25	0.5	ng/dry g	500	0	93	60 - 140% PASS			
Endrin Aldehyde	NA	51	0.25	0.5	ng/dry g	500	0	10	60 - 140% FAIL			Q
Endrin Ketone	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Heptachlor	NA	419	0.25	0.5	ng/dry g	500	0	84	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	511	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS			
Hexachlorobenzene	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS			
Methoxychlor	NA	712	0.25	0.5	ng/dry g	500	0	142	60 - 140%	FAIL			Q
Mirex	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Oxychlordane	NA	403	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS			
Perthane	NA	655	5	10	ng/dry g	500	0	131	60 - 140%	PASS			
trans-Nonachlor	NA	377	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
Toxaphene	NA	5450	10	20	ng/dry g	5000	0	109	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19			
(PCB030)	NA	76			% Recovery	100	0	76	50 - 123%	PASS	0	30	PASS	
(PCB112)	NA	79			% Recovery	100	0	79	53 - 129%	PASS	0	30	PASS	
(PCB198)	NA	97			% Recovery	100	0	97	51 - 131%	PASS	2	30	PASS	
(TCMX)	NA	64			% Recovery	100	0	64	45 - 117%	PASS	5	30	PASS	
2,4'-DDD	NA	438	0.267	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
2,4'-DDE	NA	411	0.2	0.5	ng/dry g	500	0	82	60 - 140%	PASS	0	30	PASS	
2,4'-DDT	NA	451	0.194	0.5	ng/dry g	500	0	90	60 - 140%	PASS	6	30	PASS	
4,4'-DDD	NA	478	0.198	0.5	ng/dry g	500	0	96	60 - 140%	PASS	3	30	PASS	
4,4'-DDE	NA	429	0.193	0.5	ng/dry g	500	0	86	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	463	0.223	0.5	ng/dry g	500	0	93	60 - 140%	PASS	1	30	PASS	
4,4'-DDT	NA	599	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	3	30	PASS	
Aldrin	NA	496	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	3	30	PASS	
BHC-alpha	NA	381	0.25	0.5	ng/dry g	500	0	76	60 - 140%	PASS	0	30	PASS	
BHC-beta	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
BHC-delta	NA	396	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	3	30	PASS	
BHC-gamma	NA	385	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	382	0.187	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
Chlordane-gamma	NA	451	0.179	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
cis-Nonachlor	NA	384	0.192	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
DCPA (Dacthal)	NA	512	5	10	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	506	2.5	5	ng/dry g	500	0	101	60 - 140%	PASS	5	30	PASS	
Dieldrin	NA	401	0.1	0.2	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
Endosulfan Sulfate	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	15.6	0.25	0.5	ng/dry g	500	0	3	60 - 140%	FAIL	0	30	PASS	Q
Endosulfan-II	NA	110	0.25	0.5	ng/dry g	500	0	22	60 - 140%	FAIL	5	30	PASS	Q
Endrin	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	11	30	PASS	
Endrin Aldehyde	NA	144	0.25	0.5	ng/dry g	500	0	29	60 - 140%	FAIL	97	30	FAIL	Q
Endrin Ketone	NA	431	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	1	30	PASS	
Heptachlor	NA	447	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	494	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	3	30	PASS	
Hexachlorobenzene	NA	360	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Methoxychlor	NA	720	0.25	0.5	ng/dry g	500	0	144	60 - 140%	FAIL	1	30	PASS	Q
Mirex	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Oxychlordane	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS	2	30	PASS	
Perthane	NA	673	5	10	ng/dry g	500	0	135	60 - 140%	PASS	3	30	PASS	Q
trans-Nonachlor	NA	390	0.186	0.5	ng/dry g	500	0	78	60 - 140%	PASS	4	30	PASS	
		Method: EPA 8270D-NCI			Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Toxaphene	NA	5370	10	20	ng/dry g	5000	0	107	60 - 140%	PASS	2	30	PASS	
Sample ID: 56512-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
		Method: EPA 8270D			Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(PCB030)	NA	89			% Recovery	100		89	33 - 149%	PASS				
(PCB112)	NA	96			% Recovery	100		96	49 - 120%	PASS				
(PCB198)	NA	55			% Recovery	100		55	35 - 123%	PASS				
(TCMX)	NA	88			% Recovery	100		88	37 - 138%	PASS				
2,4'-DDD	NA	49.2	0.267	0.5	ng/dry g	38		129	60 - 140%	PASS				
2,4'-DDE	NA	14.2	0.2	0.5	ng/dry g	19		75	60 - 140%	PASS				
4,4'-DDD	NA	111	0.198	0.5	ng/dry g	108		103	60 - 140%	PASS				
4,4'-DDE	NA	107	0.193	0.5	ng/dry g	86		124	60 - 140%	PASS				
4,4'-DDT	NA	142	0.128	0.5	ng/dry g	170		84	60 - 140%	PASS				
Chlordane-alpha	NA	19.5	0.187	0.5	ng/dry g	16.5		118	60 - 140%	PASS				
Chlordane-gamma	NA	26.5	0.179	0.5	ng/dry g	19		139	60 - 140%	PASS				
cis-Nonachlor	NA	4	0.192	0.5	ng/dry g	3.7		108	60 - 140%	PASS				
Hexachlorobenzene	NA	5.57	0.25	0.5	ng/dry g	6		93	60 - 140%	PASS				
trans-Nonachlor	NA	11	0.186	0.5	ng/dry g	8.2		134	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(PCB030)	NA	78			% Recovery	100	0	78	24 - 118% PASS			
(PCB112)	NA	76			% Recovery	100	0	76	34 - 121% PASS			
(PCB198)	NA	89			% Recovery	100	0	89	37 - 125% PASS			
(TCMX)	NA	67			% Recovery	100	0	67	22 - 117% PASS			
2,4'-DDD	NA	86.7	0.267	0.5	ng/dry g	92.6	0	94	60 - 140% PASS			
2,4'-DDE	NA	72	0.2	0.5	ng/dry g	92.6	0	78	60 - 140% PASS			
2,4'-DDT	NA	96.4	0.194	0.5	ng/dry g	92.6	0	104	60 - 140% PASS			
4,4'-DDD	NA	96.7	0.198	0.5	ng/dry g	92.6	0	104	60 - 140% PASS			
4,4'-DDE	NA	75.4	0.193	0.5	ng/dry g	92.6	0	81	60 - 140% PASS			
4,4'-DDMU	NA	77.5	0.223	0.5	ng/dry g	92.6	0	84	60 - 140% PASS			
4,4'-DDT	NA	136	0.128	0.5	ng/dry g	92.6	0	147	60 - 140% FAIL			M
Aldrin	NA	88.8	0.25	0.5	ng/dry g	92.6	0	96	60 - 140% PASS			
BHC-alpha	NA	79.1	0.25	0.5	ng/dry g	92.6	0	85	60 - 140% PASS			
BHC-beta	NA	85.5	0.25	0.5	ng/dry g	92.6	0	92	60 - 140% PASS			
BHC-delta	NA	79	0.25	0.5	ng/dry g	92.6	0	85	60 - 140% PASS			
BHC-gamma	NA	81.2	0.25	0.5	ng/dry g	92.6	0	88	60 - 140% PASS			
Chlordane-alpha	NA	72.6	0.187	0.5	ng/dry g	92.6	0	78	60 - 140% PASS			
Chlordane-gamma	NA	82.8	0.179	0.5	ng/dry g	92.6	0	89	60 - 140% PASS			
cis-Nonachlor	NA	71.7	0.192	0.5	ng/dry g	92.6	0	77	60 - 140% PASS			
DCPA (Dacthal)	NA	95.2	5	10	ng/dry g	92.6	0	103	60 - 140% PASS			
Dicofol	NA	42.5	2.5	5	ng/dry g	92.6	0	46	60 - 140% FAIL			M
Dieldrin	NA	70.1	0.1	0.2	ng/dry g	92.6	0	76	60 - 140% PASS			
Endosulfan Sulfate	NA	78.4	0.25	0.5	ng/dry g	92.6	0	85	60 - 140% PASS			
Endosulfan-I	NA	18.6	0.25	0.5	ng/dry g	92.6	0	20	60 - 140% FAIL			M
Endosulfan-II	NA	38.1	0.25	0.5	ng/dry g	92.6	0	41	60 - 140% FAIL			M
Endrin	NA	118	0.25	0.5	ng/dry g	92.6	0	127	60 - 140% PASS			
Endrin Aldehyde	NA	16.6	0.25	0.5	ng/dry g	92.6	0	18	60 - 140% FAIL			Q
Endrin Ketone	NA	93.8	0.25	0.5	ng/dry g	92.6	0	101	60 - 140% PASS			
Heptachlor	NA	117	0.25	0.5	ng/dry g	92.6	0	126	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	97.8	0.25	0.5	ng/dry g	92.6	0	106	60 - 140%	PASS			
Hexachlorobenzene	NA	69.3	0.25	0.5	ng/dry g	92.6	0	75	60 - 140%	PASS			
Methoxychlor	NA	174	0.25	0.5	ng/dry g	92.6	0	188	60 - 140%	FAIL			M
Mirex	NA	79.1	0.25	0.5	ng/dry g	92.6	0	85	60 - 140%	PASS			
Oxychlordane	NA	77.2	0.25	0.5	ng/dry g	92.6	0	83	60 - 140%	PASS			
Perthane	NA	133	5	10	ng/dry g	92.6	0	144	60 - 140%	FAIL			M
trans-Nonachlor	NA	73	0.186	0.5	ng/dry g	92.6	0	79	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Toxaphene	NA	951	10	20	ng/dry g	926	0	103	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 25-Jan-19			
(PCB030)	NA	83			% Recovery	100	0	83	24 - 118%	PASS	6	30	PASS	
(PCB112)	NA	81			% Recovery	100	0	81	34 - 121%	PASS	6	30	PASS	
(PCB198)	NA	98			% Recovery	100	0	98	37 - 125%	PASS	10	30	PASS	
(TCMX)	NA	71			% Recovery	100	0	71	22 - 117%	PASS	6	30	PASS	
2,4'-DDD	NA	87	0.267	0.5	ng/dry g	92.6	0	94	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	77.1	0.2	0.5	ng/dry g	92.6	0	83	60 - 140%	PASS	6	30	PASS	
2,4'-DDT	NA	97.9	0.194	0.5	ng/dry g	92.6	0	106	60 - 140%	PASS	2	30	PASS	
4,4'-DDD	NA	95.2	0.198	0.5	ng/dry g	92.6	0	103	60 - 140%	PASS	1	30	PASS	
4,4'-DDE	NA	79	0.193	0.5	ng/dry g	92.6	0	85	60 - 140%	PASS	5	30	PASS	
4,4'-DDMU	NA	82.5	0.223	0.5	ng/dry g	92.6	0	89	60 - 140%	PASS	6	30	PASS	
4,4'-DDT	NA	133	0.128	0.5	ng/dry g	92.6	0	144	60 - 140%	FAIL	2	30	PASS	M
Aldrin	NA	93.9	0.25	0.5	ng/dry g	92.6	0	101	60 - 140%	PASS	5	30	PASS	
BHC-alpha	NA	85.3	0.25	0.5	ng/dry g	92.6	0	92	60 - 140%	PASS	8	30	PASS	
BHC-beta	NA	89.3	0.25	0.5	ng/dry g	92.6	0	96	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	83.9	0.25	0.5	ng/dry g	92.6	0	91	60 - 140%	PASS	7	30	PASS	
BHC-gamma	NA	84.5	0.25	0.5	ng/dry g	92.6	0	91	60 - 140%	PASS	3	30	PASS	
Chlordane-alpha	NA	78.3	0.187	0.5	ng/dry g	92.6	0	85	60 - 140%	PASS	9	30	PASS	
Chlordane-gamma	NA	87.5	0.179	0.5	ng/dry g	92.6	0	94	60 - 140%	PASS	5	30	PASS	
cis-Nonachlor	NA	78.2	0.192	0.5	ng/dry g	92.6	0	84	60 - 140%	PASS	9	30	PASS	
DCPA (Dacthal)	NA	98.1	5	10	ng/dry g	92.6	0	106	60 - 140%	PASS	3	30	PASS	
Dicofol	NA	46.4	2.5	5	ng/dry g	92.6	0	50	60 - 140%	FAIL	8	30	PASS	Q
Dieldrin	NA	77.3	0.1	0.2	ng/dry g	92.6	0	83	60 - 140%	PASS	9	30	PASS	
Endosulfan Sulfate	NA	77.8	0.25	0.5	ng/dry g	92.6	0	84	60 - 140%	PASS	1	30	PASS	
Endosulfan-I	NA	21.6	0.25	0.5	ng/dry g	92.6	0	23	60 - 140%	FAIL	14	30	PASS	Q
Endosulfan-II	NA	39.8	0.25	0.5	ng/dry g	92.6	0	43	60 - 140%	FAIL	5	30	PASS	M
Endrin	NA	124	0.25	0.5	ng/dry g	92.6	0	134	60 - 140%	PASS	5	30	PASS	
Endrin Aldehyde	NA	26.6	0.25	0.5	ng/dry g	92.6	0	29	60 - 140%	FAIL	47	30	FAIL	Q,M
Endrin Ketone	NA	93.2	0.25	0.5	ng/dry g	92.6	0	101	60 - 140%	PASS	0	30	PASS	
Heptachlor	NA	116	0.25	0.5	ng/dry g	92.6	0	125	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	107	0.25	0.5	ng/dry g	92.6	0	116	60 - 140%	PASS	9	30	PASS	
Hexachlorobenzene	NA	75	0.25	0.5	ng/dry g	92.6	0	81	60 - 140%	PASS	8	30	PASS	
Methoxychlor	NA	163	0.25	0.5	ng/dry g	92.6	0	176	60 - 140%	FAIL	7	30	PASS	M
Mirex	NA	84.1	0.25	0.5	ng/dry g	92.6	0	91	60 - 140%	PASS	7	30	PASS	
Oxychlordane	NA	82.2	0.25	0.5	ng/dry g	92.6	0	89	60 - 140%	PASS	7	30	PASS	
Perthane	NA	128	5	10	ng/dry g	92.6	0	138	60 - 140%	PASS	4	30	PASS	
trans-Nonachlor	NA	77.8	0.186	0.5	ng/dry g	92.6	0	84	60 - 140%	PASS	6	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Toxaphene	NA	880	10	20	ng/dry g	926	0	95	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18 12:30**				**Received: 18-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 26-Jan-19		
(PCB030)	NA	80			% Recovery	100	80	24 - 118%	PASS		1	30	PASS
(PCB112)	NA	80			% Recovery	100	80	34 - 121%	PASS		5	30	PASS
(PCB198)	NA	94			% Recovery	100	94	37 - 125%	PASS		2	30	PASS
(TCMX)	NA	73			% Recovery	100	73	22 - 117%	PASS		3	30	PASS
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g						0	30	PASS
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g						0	30	PASS
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g						0	30	PASS
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g						0	30	PASS
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g						0	30	PASS
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g						0	30	PASS
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g						0	30	PASS
Aldrin	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
BHC-alpha	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
BHC-beta	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
BHC-delta	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
BHC-gamma	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g						0	30	PASS
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g						0	30	PASS
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g						0	30	PASS
DCPA (Dacthal)	NA	ND	5	10	ng/dry g						0	30	PASS
Dicofol	NA	ND	2.5	5	ng/dry g						0	30	PASS
Dieldrin	NA	ND	0.1	0.2	ng/dry g						0	30	PASS
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Endrin	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g						0	30	PASS
Heptachlor	NA	ND	0.25	0.5	ng/dry g						0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Methoxychlor	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Mirex	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Oxychlordane	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Perthane	NA	ND	5	10	ng/dry g					0	30	PASS
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g					0	30	PASS
		Method: EPA 8270D-NCI			Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g					0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18				Analyzed: 06-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18				Analyzed: 06-Feb-19	
Aluminum (Al)	NA	1.84	1	5	µg/dry g	2	0	92	70 - 130%	PASS		
Antimony (Sb)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Arsenic (As)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Barium (Ba)	NA	2.09	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Beryllium (Be)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Cadmium (Cd)	NA	2.09	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS		
Chromium (Cr)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Copper (Cu)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS		
Iron (Fe)	NA	1.94	1	5	µg/dry g	2	0	97	70 - 130%	PASS		
Lead (Pb)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS		
Nickel (Ni)	NA	2.07	0.01	0.02	µg/dry g	2	0	103	70 - 130%	PASS		
Selenium (Se)	NA	2.1	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS		
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%	PASS		
Zinc (Zn)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	1020	0.00001	0.00002	µg/dry g	1000	0	102	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18				Analyzed: 06-Feb-19			
Aluminum (Al)	NA	1.84	1	5	µg/dry g	2	0	92	70 - 130%	PASS	0	30	PASS	
Antimony (Sb)	NA	2.1	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS	1	30	PASS	
Arsenic (As)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	2.09	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS	0	30	PASS	
Beryllium (Be)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS	0	30	PASS	
Cadmium (Cd)	NA	2.11	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	2.09	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	1	30	PASS	
Iron (Fe)	NA	1.93	1	5	µg/dry g	2	0	96	70 - 130%	PASS	1	30	PASS	
Lead (Pb)	NA	2.14	0.0025	0.005	µg/dry g	2	0	107	70 - 130%	PASS	2	30	PASS	
Nickel (Ni)	NA	2.06	0.01	0.02	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS	
Selenium (Se)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS	0	30	PASS	
Silver (Ag)	NA	0.206	0.01	0.02	µg/dry g	0.2	0	103	70 - 130%	PASS	1	30	PASS	
Zinc (Zn)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19				Analyzed: 08-Jan-19			
Mercury (Hg)	NA	1010	0.00001	0.00002	µg/dry g	1000	0	101	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56511-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18				Analyzed: 06-Feb-19	
Aluminum (Al)	NA	13400	1	5	µg/dry g	10100		133	42 - 124%	FAIL		
Antimony (Sb)	NA	123	0.025	0.05	µg/dry g	145		85	10 - 137%	PASS		
Arsenic (As)	NA	191	0.025	0.05	µg/dry g	171		112	66 - 122%	PASS		
Beryllium (Be)	NA	111	0.025	0.05	µg/dry g	102		109	72 - 120%	PASS		
Cadmium (Cd)	NA	235	0.0025	0.005	µg/dry g	225		104	70 - 117%	PASS		
Chromium (Cr)	NA	171	0.0025	0.005	µg/dry g	144		119	66 - 123%	PASS		
Copper (Cu)	NA	188	0.0025	0.005	µg/dry g	174		108	71 - 119%	PASS		
Iron (Fe)	NA	24200	1	5	µg/dry g	15000		161	33 - 155%	FAIL		
Lead (Pb)	NA	118	0.0025	0.005	µg/dry g	111		106	71 - 129%	PASS		
Nickel (Ni)	NA	102	0.01	0.02	µg/dry g	98.3		104	65 - 121%	PASS		
Selenium (Se)	NA	232	0.025	0.05	µg/dry g	206		113	64 - 122%	PASS		
Silver (Ag)	NA	44.9	0.01	0.02	µg/dry g	45.5		99	66 - 124%	PASS		
Zinc (Zn)	NA	229	0.025	0.05	µg/dry g	207		111	67 - 125%	PASS		
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19				Analyzed: 08-Jan-19	
Mercury (Hg)	NA	11.1	0.00001	0.00002	µg/dry g	12		93	57 - 133%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
	Method: EPA 6020				Batch ID: E-14068			Prepared: 24-Dec-18		Analyzed: 06-Feb-19		
Aluminum (Al)	NA	9520	1	5	µg/dry g	60.8	9950	-707	70 - 130%	FAIL		SH
Antimony (Sb)	NA	63.9	0.025	0.05	µg/dry g	60.8	0.136	105	70 - 130%	PASS		
Arsenic (As)	NA	69.2	0.025	0.05	µg/dry g	60.8	2.97	109	70 - 130%	PASS		
Barium (Ba)	NA	95.2	0.025	0.05	µg/dry g	60.8	31.9	104	70 - 130%	PASS		
Beryllium (Be)	NA	67.2	0.025	0.05	µg/dry g	60.8	0.166	110	70 - 130%	PASS		
Cadmium (Cd)	NA	65.3	0.0025	0.005	µg/dry g	60.8	0.0723	107	70 - 130%	PASS		
Chromium (Cr)	NA	80.9	0.0025	0.005	µg/dry g	60.8	16.7	106	70 - 130%	PASS		
Copper (Cu)	NA	81.6	0.0025	0.005	µg/dry g	60.8	19.4	102	70 - 130%	PASS		
Iron (Fe)	NA	10600	1	5	µg/dry g	60.8	10700	-164	70 - 130%	FAIL		SH
Lead (Pb)	NA	68.8	0.0025	0.005	µg/dry g	60.8	7.77	100	70 - 130%	PASS		
Nickel (Ni)	NA	67.3	0.01	0.02	µg/dry g	60.8	4.22	104	70 - 130%	PASS		
Selenium (Se)	NA	68.4	0.025	0.05	µg/dry g	60.8	0.151	112	70 - 130%	PASS		
Silver (Ag)	NA	6.35	0.01	0.02	µg/dry g	6.08	0.108	103	70 - 130%	PASS		
Zinc (Zn)	NA	109	0.025	0.05	µg/dry g	60.8	46.6	103	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15085			Prepared: 08-Jan-19		Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.239	0.00001	0.00002	µg/dry g	0.152	0.0607	117	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**				
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18			Analyzed: 06-Feb-19				
Aluminum (Al)	NA	9520	1	5	µg/dry g	60.8	9950	-707	70 - 130%	FAIL	0	30	PASS	SH
Antimony (Sb)	NA	63.9	0.025	0.05	µg/dry g	60.8	0.136	105	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	69.7	0.025	0.05	µg/dry g	60.8	2.97	110	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	94.9	0.025	0.05	µg/dry g	60.8	31.9	104	70 - 130%	PASS	0	30	PASS	
Beryllium (Be)	NA	67.3	0.025	0.05	µg/dry g	60.8	0.166	110	70 - 130%	PASS	0	30	PASS	
Cadmium (Cd)	NA	65.8	0.0025	0.005	µg/dry g	60.8	0.0723	108	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	81.3	0.0025	0.005	µg/dry g	60.8	16.7	106	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	81.8	0.0025	0.005	µg/dry g	60.8	19.4	103	70 - 130%	PASS	1	30	PASS	
Iron (Fe)	NA	10600	1	5	µg/dry g	60.8	10700	-164	70 - 130%	FAIL	0	30	PASS	SH
Lead (Pb)	NA	69.4	0.0025	0.005	µg/dry g	60.8	7.77	101	70 - 130%	PASS	1	30	PASS	
Nickel (Ni)	NA	67.6	0.01	0.02	µg/dry g	60.8	4.22	104	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	69.8	0.025	0.05	µg/dry g	60.8	0.151	115	70 - 130%	PASS	3	30	PASS	
Silver (Ag)	NA	6.42	0.01	0.02	µg/dry g	6.08	0.108	104	70 - 130%	PASS	1	30	PASS	
Zinc (Zn)	NA	109	0.025	0.05	µg/dry g	60.8	46.6	103	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19			Analyzed: 08-Jan-19				
Mercury (Hg)	NA	0.237	0.00001	0.00002	µg/dry g	0.152	0.0607	116	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**		
	Method: EPA 6020				Batch ID: E-14068		Prepared: 24-Dec-18			Analyzed: 06-Feb-19		
Aluminum (Al)	NA	9700	1	5	µg/dry g					5	30 PASS	
Antimony (Sb)	NA	0.12	0.025	0.05	µg/dry g					24	30 PASS	
Arsenic (As)	NA	3	0.025	0.05	µg/dry g					2	30 PASS	
Barium (Ba)	NA	30.7	0.025	0.05	µg/dry g					8	30 PASS	
Beryllium (Be)	NA	0.199	0.025	0.05	µg/dry g					40	30 FAIL	SL
Cadmium (Cd)	NA	0.0737	0.0025	0.005	µg/dry g					4	30 PASS	
Chromium (Cr)	NA	16.9	0.0025	0.005	µg/dry g					2	30 PASS	
Copper (Cu)	NA	19.4	0.0025	0.005	µg/dry g					0	30 PASS	
Iron (Fe)	NA	10600	1	5	µg/dry g					3	30 PASS	
Lead (Pb)	NA	7.71	0.0025	0.005	µg/dry g					1	30 PASS	
Nickel (Ni)	NA	4.26	0.01	0.02	µg/dry g					2	30 PASS	
Selenium (Se)	NA	0.158	0.025	0.05	µg/dry g					10	30 PASS	
Silver (Ag)	NA	0.104	0.01	0.02	µg/dry g					7	30 PASS	
Zinc (Zn)	NA	46.2	0.025	0.05	µg/dry g					2	30 PASS	
	Method: EPA 245.7				Batch ID: E-15085		Prepared: 08-Jan-19			Analyzed: 08-Jan-19		
Mercury (Hg)	NA	0.0587	0.00001	0.00002	µg/dry g					7	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00883	0.0018	0.0036	µmol/dry g	0.0089	0	99	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.0048	0.0002	0.0004	µmol/dry g	0.0048	0	99	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0174	0.0033	0.0066	µmol/dry g	0.017	0	102	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000901	0.0047	0.0094	µmol/dry g	0.0009	0	97	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS				
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00868	0.0018	0.0036	µmol/dry g	0.0089	0	98	70 - 130%	PASS	1	30	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.00485	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.0172	0.0033	0.0066	µmol/dry g	0.017	0	101	70 - 130%	PASS	1	30	PASS	
Silver (Ag) - SEM	NA	0.000911	0.0047	0.0094	µmol/dry g	0.0009	0	98	70 - 130%	PASS	1	30	PASS	
Zinc (Zn) - SEM	NA	0.016	0.0015	0.003	µmol/dry g	0.0153	0	105	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**				
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19			Analyzed: 09-Jan-19				
Cadmium (Cd) - SEM	NA	0.104	0.0018	0.0036	µmol/dry g	0.0998	0	104	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.251	0.0062	0.0124	µmol/dry g	0.177	0.0769	98	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.0748	0.0002	0.0004	µmol/dry g	0.0542	0.0224	97	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.199	0.0033	0.0066	µmol/dry g	0.191	0.00593	101	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.00817	0.0047	0.0094	µmol/dry g	0.0104	0	79	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.507	0.0015	0.003	µmol/dry g	0.172	0.324	106	70 - 130%	PASS				
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**				
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19			Analyzed: 09-Jan-19				
Cadmium (Cd) - SEM	NA	0.105	0.0018	0.0036	µmol/dry g	0.0998	0	105	70 - 130%	PASS	1	30	PASS	
Copper (Cu) - SEM	NA	0.254	0.0062	0.0124	µmol/dry g	0.177	0.0769	100	70 - 130%	PASS	2	30	PASS	
Lead (Pb) - SEM	NA	0.0746	0.0002	0.0004	µmol/dry g	0.0542	0.0224	96	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.199	0.0033	0.0066	µmol/dry g	0.191	0.00593	101	70 - 130%	PASS	0	30	PASS	
Silver (Ag) - SEM	NA	0.00682	0.0047	0.0094	µmol/dry g	0.0104	0	66	70 - 130%	FAIL	18	30	PASS	Q
Zinc (Zn) - SEM	NA	0.507	0.0015	0.003	µmol/dry g	0.172	0.324	106	70 - 130%	PASS	0	30	PASS	
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**				
	Method: EPA 200.8				Batch ID: E-16155		Prepared: 08-Jan-19			Analyzed: 09-Jan-19				
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS	
Copper (Cu) - SEM	NA	0.0764	0.0062	0.0124	µmol/dry g						1	30	PASS	
Lead (Pb) - SEM	NA	0.0223	0.0002	0.0004	µmol/dry g						1	30	PASS	
Nickel (Ni) - SEM	NA	0.00579	0.0033	0.0066	µmol/dry g						5	30	PASS	J
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS	
Zinc (Zn) - SEM	NA	0.321	0.0015	0.003	µmol/dry g						2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Fipronil	NA	528	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Fipronil Desulfinyl	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS			
Fipronil Sulfide	NA	472	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS			
Fipronil Sulfone	NA	455	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS			
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
Fipronil	NA	523	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	1	30	PASS
Fipronil Desulfinyl	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS
Fipronil Sulfide	NA	465	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	1	30	PASS
Fipronil Sulfone	NA	431	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	6	30	PASS
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Fipronil	NA	600	0.25	0.5	ng/dry g	500	0	120	60 - 140%	PASS			
Fipronil Desulfinyl	NA	548	0.25	0.5	ng/dry g	500	0	110	60 - 140%	PASS			
Fipronil Sulfide	NA	492	0.25	0.5	ng/dry g	500	0	98	60 - 140%	PASS			
Fipronil Sulfone	NA	452	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Fipronil	NA	608	0.25	0.5	ng/dry g	500	0	122	60 - 140%	PASS	2	30	PASS	
Fipronil Desulfinyl	NA	562	0.25	0.5	ng/dry g	500	0	112	60 - 140%	PASS	2	30	PASS	
Fipronil Sulfide	NA	502	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	2	30	PASS	
Fipronil Sulfone	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30	PASS	
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18 12:30**				**Received: 18-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Fipronil	NA	99.2	0.25	0.5	ng/dry g	92.6	0	107	60 - 140%	PASS				
Fipronil Desulfinyl	NA	116	0.25	0.5	ng/dry g	92.6	0	125	60 - 140%	PASS				
Fipronil Sulfide	NA	94.3	0.25	0.5	ng/dry g	92.6	0	102	60 - 140%	PASS				
Fipronil Sulfone	NA	81.6	0.25	0.5	ng/dry g	92.6	0.384	88	60 - 140%	PASS				
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18 12:30**				**Received: 18-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Fipronil	NA	102	0.25	0.5	ng/dry g	92.6	0	110	60 - 140%	PASS	3	30	PASS	
Fipronil Desulfinyl	NA	132	0.25	0.5	ng/dry g	92.6	0	143	60 - 140%	FAIL	13	30	PASS	M
Fipronil Sulfide	NA	102	0.25	0.5	ng/dry g	92.6	0	110	60 - 140%	PASS	8	30	PASS	
Fipronil Sulfone	NA	82.6	0.25	0.5	ng/dry g	92.6	0.384	89	60 - 140%	PASS	1	30	PASS	
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18 12:30**				**Received: 18-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 15-Jan-19		
Fipronil	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Sulfone	NA	0.344	0.25	0.5	ng/dry g						21	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18 12:30**			**Received: 18-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	0.3	0.1	0.1	%					100	20 FAIL	SL
Phi 1.5	NA	11.2	0.1	0.1	%					9	20 PASS	
Phi 10.0	NA	0.3	0.1	0.1	%					29	20 PASS	SL,Q
Phi 10.5	NA	0.3	0.1	0.1	%					50	20 FAIL	SL
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	19.3	0.1	0.1	%					8	20 PASS	
Phi 2.5	NA	25.7	0.1	0.1	%					10	20 PASS	
Phi 3.0	NA	18.5	0.1	0.1	%					14	20 PASS	
Phi 3.5	NA	7	0.1	0.1	%					9	20 PASS	
Phi 4.0	NA	2.9	0.1	0.1	%					3	20 PASS	
Phi 4.5	NA	2.1	0.1	0.1	%					5	20 PASS	
Phi 5.0	NA	1.6	0.1	0.1	%					17	20 PASS	
Phi 5.5	NA	1.2	0.1	0.1	%					8	20 PASS	
Phi 6.0	NA	1.8	0.1	0.1	%					11	20 PASS	
Phi 6.5	NA	1.3	0.1	0.1	%					21	20 PASS	Q
Phi 7.0	NA	2.1	0.1	0.1	%					0	20 PASS	
Phi 7.5	NA	1.2	0.1	0.1	%					8	20 PASS	
Phi 8.0	NA	1.4	0.1	0.1	%					0	20 PASS	
Phi 8.5	NA	1	0.1	0.1	%					0	20 PASS	
Phi 9.0	NA	0.9	0.1	0.1	%					20	20 PASS	
Phi 9.5	NA	0.5	0.1	0.1	%					22	20 PASS	SL,Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	36.3	0.1	0.2	ng/dry g	50	0	73	60 - 140%		PASS	
PCB005	NA	42.1	0.1	0.2	ng/dry g	50	0	84	60 - 140%		PASS	
PCB008	NA	43.7	0.017	0.2	ng/dry g	50	0	87	60 - 140%		PASS	
PCB015	NA	46.9	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB018	NA	47.5	0.029	0.2	ng/dry g	50	0	95	60 - 140%		PASS	
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%		PASS	
PCB028	NA	46.9	0.023	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB029	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB031	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB033	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB037	NA	50.3	0.06	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB044	NA	50.3	0.028	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB049	NA	49.3	0.036	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB052	NA	50.7	0.012	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB056(060)	NA	50.2	0.1	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB066	NA	54	0.027	0.2	ng/dry g	50	0	108	60 - 140%		PASS	
PCB070	NA	55	0.023	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB074	NA	52.5	0.021	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB077	NA	55	0.018	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB081	NA	53.7	0.084	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB087	NA	51.9	0.081	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB095	NA	48.8	0.1	0.2	ng/dry g	50	0	98	60 - 140%		PASS	
PCB097	NA	56.2	0.1	0.2	ng/dry g	50	0	112	60 - 140%		PASS	
PCB099	NA	50.8	0.028	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB101	NA	52	0.027	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB105	NA	45.3	0.047	0.2	ng/dry g	50	0	91	60 - 140%		PASS	
PCB110	NA	51.7	0.074	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB114	NA	51.1	0.072	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB118	NA	50.8	0.069	0.2	ng/dry g	50	0	102	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	52	0.071	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB123	NA	50.1	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB126	NA	48	0.086	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB128	NA	47.8	0.081	0.2	ng/dry g	50	0	96	60 - 140%	PASS			
PCB137	NA	44.3	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB138	NA	47.5	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB141	NA	44.5	0.1	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB149	NA	47.2	0.092	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB151	NA	55.4	0.073	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB153	NA	49.1	0.065	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB156	NA	54.7	0.089	0.2	ng/dry g	50	0	109	60 - 140%	PASS			
PCB157	NA	46.4	0.103	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB158	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB167	NA	52.1	0.049	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB168+132	NA	90.8	0.094	0.2	ng/dry g	100	0	91	60 - 140%	PASS			
PCB169	NA	56.5	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS			
PCB170	NA	48.3	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB174	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB177	NA	55.4	0.085	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB180	NA	51.5	0.154	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB183	NA	49.2	0.056	0.25	ng/dry g	50	0	98	60 - 140%	PASS			
PCB187	NA	53.4	0.168	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB189	NA	49.5	0.109	0.25	ng/dry g	50	0	99	60 - 140%	PASS			
PCB194	NA	54.8	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB195	NA	48.3	0.093	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB199(200)	NA	48.7	0.12	0.25	ng/dry g	50	0	97	60 - 140%	PASS			
PCB201	NA	44.3	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	50	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			
PCB206	NA	47.8	0.155	0.25	ng/dry g	50	0	96	60 - 140%	PASS			
PCB209	NA	50.1	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
PCB003	NA	38.8	0.1	0.2	ng/dry g	50	0	78	60 - 140%	PASS	7	30 PASS	
PCB005	NA	44.2	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	5	30 PASS	
PCB008	NA	44.5	0.017	0.2	ng/dry g	50	0	89	60 - 140%	PASS	2	30 PASS	
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	7	30 PASS	
PCB018	NA	47.8	0.029	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30 PASS	
PCB027	NA	48.3	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30 PASS	
PCB028	NA	47.4	0.023	0.2	ng/dry g	50	0	95	60 - 140%	PASS	1	30 PASS	
PCB029	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30 PASS	
PCB031	NA	49.9	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30 PASS	
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30 PASS	
PCB037	NA	51.2	0.06	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30 PASS	
PCB044	NA	52.6	0.028	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30 PASS	
PCB049	NA	52.3	0.036	0.2	ng/dry g	50	0	105	60 - 140%	PASS	6	30 PASS	
PCB052	NA	52.7	0.012	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30 PASS	
PCB056(060)	NA	51.9	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	4	30 PASS	
PCB066	NA	54.6	0.027	0.2	ng/dry g	50	0	109	60 - 140%	PASS	1	30 PASS	
PCB070	NA	57	0.023	0.2	ng/dry g	50	0	114	60 - 140%	PASS	4	30 PASS	
PCB074	NA	53.1	0.021	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30 PASS	
PCB077	NA	55.6	0.018	0.2	ng/dry g	50	0	111	60 - 140%	PASS	1	30 PASS	
PCB081	NA	54.2	0.084	0.2	ng/dry g	50	0	108	60 - 140%	PASS	1	30 PASS	
PCB087	NA	54.3	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	5	30 PASS	
PCB095	NA	51.6	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS	5	30 PASS	
PCB097	NA	56	0.1	0.2	ng/dry g	50	0	112	60 - 140%	PASS	0	30 PASS	
PCB099	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS	1	30 PASS	
PCB101	NA	51.9	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	0	30 PASS	
PCB105	NA	46	0.047	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30 PASS	
PCB110	NA	51.2	0.074	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30 PASS	
PCB114	NA	51	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS	0	30 PASS	
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.6	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	0	30	PASS	
PCB126	NA	49.2	0.086	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB128	NA	49	0.081	0.2	ng/dry g	50	0	98	60 - 140%	PASS	2	30	PASS	
PCB137	NA	47.4	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB138	NA	47.3	0.057	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB141	NA	45.5	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB149	NA	49.2	0.092	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS	
PCB151	NA	55.1	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	1	30	PASS	
PCB153	NA	50.3	0.065	0.2	ng/dry g	50	0	101	60 - 140%	PASS	3	30	PASS	
PCB156	NA	56.5	0.089	0.2	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB157	NA	47.4	0.103	0.2	ng/dry g	50	0	95	60 - 140%	PASS	2	30	PASS	
PCB158	NA	48.2	0.074	0.2	ng/dry g	50	0	96	60 - 140%	PASS	1	30	PASS	
PCB167	NA	52.3	0.049	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB168+132	NA	93.4	0.094	0.2	ng/dry g	100	0	93	60 - 140%	PASS	2	30	PASS	
PCB169	NA	56.3	0.116	0.2	ng/dry g	50	0	113	60 - 140%	PASS	0	30	PASS	
PCB170	NA	48.7	0.118	0.25	ng/dry g	50	0	97	60 - 140%	PASS	0	30	PASS	
PCB174	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	
PCB177	NA	57.9	0.085	0.25	ng/dry g	50	0	116	60 - 140%	PASS	4	30	PASS	
PCB180	NA	53.9	0.154	0.25	ng/dry g	50	0	108	60 - 140%	PASS	5	30	PASS	
PCB183	NA	51.1	0.056	0.25	ng/dry g	50	0	102	60 - 140%	PASS	4	30	PASS	
PCB187	NA	53.2	0.168	0.25	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS	
PCB189	NA	51.3	0.109	0.25	ng/dry g	50	0	103	60 - 140%	PASS	4	30	PASS	
PCB194	NA	55.1	0.164	0.25	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS	
PCB195	NA	51.5	0.093	0.25	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS	
PCB199(200)	NA	49.6	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	2	30	PASS	
PCB201	NA	47.2	0.104	0.25	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PCB203	NA	49.4	0.12	0.25	ng/dry g	50	0	99	60 - 140%	PASS	1	30	PASS	
PCB206	NA	52.6	0.155	0.25	ng/dry g	50	0	105	60 - 140%	PASS	9	30	PASS	
PCB209	NA	52.7	0.12	0.25	ng/dry g	50	0	105	60 - 140%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20647-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**					**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 25-Jan-19	
PCB008	NA	25.5	0.017	0.2	ng/dry g	22.3	114	60 - 140%	PASS				
PCB018	NA	43.9	0.029	0.2	ng/dry g	51	86	60 - 140%	PASS				
PCB028	NA	68	0.023	0.2	ng/dry g	80.8	84	60 - 140%	PASS				
PCB044	NA	39.9	0.028	0.2	ng/dry g	60.2	66	60 - 140%	PASS				
PCB049	NA	43.8	0.036	0.2	ng/dry g	53	83	60 - 140%	PASS				
PCB052	NA	60.8	0.012	0.2	ng/dry g	79.4	77	60 - 140%	PASS				
PCB066	NA	45.1	0.027	0.2	ng/dry g	71.9	63	60 - 140%	PASS				
PCB087	NA	19.9	0.081	0.2	ng/dry g	29.9	67	60 - 140%	PASS				
PCB099	NA	22.6	0.028	0.2	ng/dry g	37.5	60	60 - 140%	PASS				
PCB101	NA	55.8	0.027	0.2	ng/dry g	73.4	76	60 - 140%	PASS				
PCB105	NA	8.68	0.047	0.2	ng/dry g	24.5	35	60 - 140%	FAIL				1
PCB110	NA	44.1	0.074	0.2	ng/dry g	63.5	69	60 - 140%	PASS				
PCB118	NA	32.5	0.069	0.2	ng/dry g	58	56	60 - 140%	FAIL				1
PCB128	NA	1.62	0.081	0.2	ng/dry g	8.5	19	60 - 140%	FAIL				1
PCB138	NA	51.3	0.057	0.2	ng/dry g	62.1	83	60 - 140%	PASS				
PCB149	NA	37.8	0.092	0.2	ng/dry g	49.7	76	60 - 140%	PASS				
PCB151	NA	11.7	0.073	0.2	ng/dry g	16.9	69	60 - 140%	PASS				
PCB153	NA	51.3	0.065	0.2	ng/dry g	74	69	60 - 140%	PASS				
PCB156	NA	1.81	0.089	0.2	ng/dry g	6.5	28	60 - 140%	FAIL				1
PCB174	NA	15.5	0.12	0.25	ng/dry g	16	97	60 - 140%	PASS				
PCB180	NA	30.8	0.154	0.25	ng/dry g	44.3	70	60 - 140%	PASS				
PCB183	NA	9.96	0.056	0.25	ng/dry g	12.2	82	60 - 140%	PASS				
PCB187	NA	20.6	0.168	0.25	ng/dry g	25.1	82	60 - 140%	PASS				
PCB194	NA	9.07	0.164	0.25	ng/dry g	11.2	81	60 - 140%	PASS				
PCB195	NA	3.28	0.093	0.25	ng/dry g	3.8	86	60 - 140%	PASS				
PCB206	NA	4.85	0.155	0.25	ng/dry g	9.2	53	60 - 140%	FAIL				1

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB003	NA	36.9	0.1	0.2	ng/dry g	50	0	74	60 - 140%		PASS	
PCB005	NA	42.6	0.1	0.2	ng/dry g	50	0	85	60 - 140%		PASS	
PCB008	NA	37.9	0.017	0.2	ng/dry g	50	0	76	60 - 140%		PASS	
PCB015	NA	47.1	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB018	NA	44.4	0.029	0.2	ng/dry g	50	0	89	60 - 140%		PASS	
PCB027	NA	46	0.1	0.2	ng/dry g	50	0	92	60 - 140%		PASS	
PCB028	NA	45.7	0.023	0.2	ng/dry g	50	0	91	60 - 140%		PASS	
PCB029	NA	50.4	0.1	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB031	NA	49.3	0.1	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB033	NA	52.4	0.1	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB037	NA	51.1	0.06	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB044	NA	49.3	0.028	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB049	NA	48.7	0.036	0.2	ng/dry g	50	0	97	60 - 140%		PASS	
PCB052	NA	49.3	0.012	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB066	NA	54	0.027	0.2	ng/dry g	50	0	108	60 - 140%		PASS	
PCB070	NA	56.9	0.023	0.2	ng/dry g	50	0	114	60 - 140%		PASS	
PCB074	NA	53.7	0.021	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB077	NA	57.2	0.018	0.2	ng/dry g	50	0	114	60 - 140%		PASS	
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140%		PASS	
PCB087	NA	54.8	0.081	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB095	NA	48	0.1	0.2	ng/dry g	50	0	96	60 - 140%		PASS	
PCB097	NA	55.8	0.1	0.2	ng/dry g	50	0	112	60 - 140%		PASS	
PCB099	NA	50.2	0.028	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB101	NA	49.8	0.027	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB105	NA	43	0.047	0.2	ng/dry g	50	0	86	60 - 140%		PASS	
PCB110	NA	51.4	0.074	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB114	NA	51.7	0.072	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB118	NA	52.1	0.069	0.2	ng/dry g	50	0	104	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.1	0.071	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS			
PCB126	NA	51.9	0.086	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB128	NA	44.6	0.081	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB137	NA	45.6	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	45.2	0.057	0.2	ng/dry g	50	0	90	60 - 140%	PASS			
PCB141	NA	42.4	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS			
PCB149	NA	45.4	0.092	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB151	NA	58.7	0.073	0.2	ng/dry g	50	0	117	60 - 140%	PASS			
PCB153	NA	46.3	0.065	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB156	NA	58.9	0.089	0.2	ng/dry g	50	0	118	60 - 140%	PASS			
PCB157	NA	46	0.103	0.2	ng/dry g	50	0	92	60 - 140%	PASS			
PCB158	NA	47.1	0.074	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB167	NA	51.5	0.049	0.2	ng/dry g	50	0	103	60 - 140%	PASS			
PCB168+132	NA	85	0.094	0.2	ng/dry g	100	0	85	60 - 140%	PASS			
PCB169	NA	62.4	0.116	0.2	ng/dry g	50	0	125	60 - 140%	PASS			
PCB170	NA	51.4	0.118	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB174	NA	51.8	0.12	0.25	ng/dry g	50	0	104	60 - 140%	PASS			
PCB177	NA	58.3	0.085	0.25	ng/dry g	50	0	117	60 - 140%	PASS			
PCB180	NA	56.2	0.154	0.25	ng/dry g	50	0	112	60 - 140%	PASS			
PCB183	NA	51.4	0.056	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB187	NA	52	0.168	0.25	ng/dry g	50	0	104	60 - 140%	PASS			
PCB189	NA	57.5	0.109	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB194	NA	63.5	0.164	0.25	ng/dry g	50	0	127	60 - 140%	PASS			
PCB195	NA	54.2	0.093	0.25	ng/dry g	50	0	108	60 - 140%	PASS			
PCB199(200)	NA	50.7	0.12	0.25	ng/dry g	50	0	101	60 - 140%	PASS			
PCB201	NA	42.5	0.104	0.25	ng/dry g	50	0	85	60 - 140%	PASS			
PCB203	NA	51	0.12	0.25	ng/dry g	50	0	102	60 - 140%	PASS			
PCB206	NA	59.8	0.155	0.25	ng/dry g	50	0	120	60 - 140%	PASS			
PCB209	NA	54.9	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
PCB003	NA	35.3	0.1	0.2	ng/dry g	50	0	71	60 - 140%	PASS	4	30 PASS	
PCB005	NA	41.1	0.1	0.2	ng/dry g	50	0	82	60 - 140%	PASS	4	30 PASS	
PCB008	NA	40.3	0.017	0.2	ng/dry g	50	0	81	60 - 140%	PASS	6	30 PASS	
PCB015	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	1	30 PASS	
PCB018	NA	43.8	0.029	0.2	ng/dry g	50	0	88	60 - 140%	PASS	1	30 PASS	
PCB027	NA	44.9	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	2	30 PASS	
PCB028	NA	45.8	0.023	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30 PASS	
PCB029	NA	51	0.1	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30 PASS	
PCB031	NA	48	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS	3	30 PASS	
PCB033	NA	51	0.1	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30 PASS	
PCB037	NA	52.4	0.06	0.2	ng/dry g	50	0	105	60 - 140%	PASS	3	30 PASS	
PCB044	NA	51.4	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS	4	30 PASS	
PCB049	NA	48.7	0.036	0.2	ng/dry g	50	0	97	60 - 140%	PASS	0	30 PASS	
PCB052	NA	49.9	0.012	0.2	ng/dry g	50	0	100	60 - 140%	PASS	1	30 PASS	
PCB056(060)	NA	50.1	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	4	30 PASS	
PCB066	NA	54.5	0.027	0.2	ng/dry g	50	0	109	60 - 140%	PASS	1	30 PASS	
PCB070	NA	57.7	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	1	30 PASS	
PCB074	NA	53.7	0.021	0.2	ng/dry g	50	0	107	60 - 140%	PASS	0	30 PASS	
PCB077	NA	57.3	0.018	0.2	ng/dry g	50	0	115	60 - 140%	PASS	1	30 PASS	
PCB081	NA	57.9	0.084	0.2	ng/dry g	50	0	116	60 - 140%	PASS	1	30 PASS	
PCB087	NA	54.2	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS	2	30 PASS	
PCB095	NA	48.6	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS	1	30 PASS	
PCB097	NA	57.8	0.1	0.2	ng/dry g	50	0	116	60 - 140%	PASS	4	30 PASS	
PCB099	NA	50.2	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	0	30 PASS	
PCB101	NA	51.6	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30 PASS	
PCB105	NA	43.2	0.047	0.2	ng/dry g	50	0	86	60 - 140%	PASS	0	30 PASS	
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140%	PASS	2	30 PASS	
PCB114	NA	51.5	0.072	0.2	ng/dry g	50	0	103	60 - 140%	PASS	0	30 PASS	
PCB118	NA	52.7	0.069	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	50.8	0.071	0.2	ng/dry g	50	0	102	60 - 140%	PASS	2	30	PASS	
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS	0	30	PASS	
PCB126	NA	53.6	0.086	0.2	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB128	NA	45.8	0.081	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB137	NA	45.6	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS	0	30	PASS	
PCB138	NA	45.9	0.057	0.2	ng/dry g	50	0	92	60 - 140%	PASS	2	30	PASS	
PCB141	NA	42.3	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.8	0.092	0.2	ng/dry g	50	0	94	60 - 140%	PASS	3	30	PASS	
PCB151	NA	59.7	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS	2	30	PASS	
PCB153	NA	47.7	0.065	0.2	ng/dry g	50	0	95	60 - 140%	PASS	2	30	PASS	
PCB156	NA	61.4	0.089	0.2	ng/dry g	50	0	123	60 - 140%	PASS	4	30	PASS	
PCB157	NA	46.2	0.103	0.2	ng/dry g	50	0	92	60 - 140%	PASS	0	30	PASS	
PCB158	NA	48.1	0.074	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB167	NA	53.7	0.049	0.2	ng/dry g	50	0	107	60 - 140%	PASS	4	30	PASS	
PCB168+132	NA	87.4	0.094	0.2	ng/dry g	100	0	87	60 - 140%	PASS	2	30	PASS	
PCB169	NA	66.5	0.116	0.2	ng/dry g	50	0	133	60 - 140%	PASS	6	30	PASS	
PCB170	NA	54.4	0.118	0.25	ng/dry g	50	0	109	60 - 140%	PASS	6	30	PASS	
PCB174	NA	54.2	0.12	0.25	ng/dry g	50	0	108	60 - 140%	PASS	4	30	PASS	
PCB177	NA	58	0.085	0.25	ng/dry g	50	0	116	60 - 140%	PASS	1	30	PASS	
PCB180	NA	59	0.154	0.25	ng/dry g	50	0	118	60 - 140%	PASS	5	30	PASS	
PCB183	NA	53.3	0.056	0.25	ng/dry g	50	0	107	60 - 140%	PASS	4	30	PASS	
PCB187	NA	52.7	0.168	0.25	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB189	NA	61.9	0.109	0.25	ng/dry g	50	0	124	60 - 140%	PASS	8	30	PASS	
PCB194	NA	62.6	0.164	0.25	ng/dry g	50	0	125	60 - 140%	PASS	2	30	PASS	
PCB195	NA	58.2	0.093	0.25	ng/dry g	50	0	116	60 - 140%	PASS	7	30	PASS	
PCB199(200)	NA	52.9	0.12	0.25	ng/dry g	50	0	106	60 - 140%	PASS	5	30	PASS	
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS	5	30	PASS	
PCB203	NA	53.4	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	5	30	PASS	
PCB206	NA	59.3	0.155	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB209	NA	57.6	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56512-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB008	NA	25.9	0.017	0.2	ng/dry g	22.3		116	60 - 140% PASS			
PCB018	NA	45.4	0.029	0.2	ng/dry g	51		89	60 - 140% PASS			
PCB028	NA	78.9	0.023	0.2	ng/dry g	80.8		98	60 - 140% PASS			
PCB044	NA	41.5	0.028	0.2	ng/dry g	60.2		69	60 - 140% PASS			
PCB049	NA	39.6	0.036	0.2	ng/dry g	53		75	60 - 140% PASS			
PCB052	NA	67.9	0.012	0.2	ng/dry g	79.4		86	60 - 140% PASS			
PCB066	NA	51.2	0.027	0.2	ng/dry g	71.9		71	60 - 140% PASS			
PCB087	NA	19.3	0.081	0.2	ng/dry g	29.9		65	60 - 140% PASS			
PCB099	NA	22.8	0.028	0.2	ng/dry g	37.5		61	60 - 140% PASS			
PCB101	NA	48.6	0.027	0.2	ng/dry g	73.4		66	60 - 140% PASS			
PCB105	NA	9.85	0.047	0.2	ng/dry g	24.5		40	60 - 140% FAIL			1
PCB110	NA	41.2	0.074	0.2	ng/dry g	63.5		65	60 - 140% PASS			
PCB118	NA	30.5	0.069	0.2	ng/dry g	58		53	60 - 140% FAIL			1
PCB128	NA	3.4	0.081	0.2	ng/dry g	8.5		40	60 - 140% FAIL			1
PCB138	NA	52.5	0.057	0.2	ng/dry g	62.1		85	60 - 140% PASS			
PCB149	NA	33.8	0.092	0.2	ng/dry g	49.7		68	60 - 140% PASS			
PCB151	NA	12.2	0.073	0.2	ng/dry g	16.9		72	60 - 140% PASS			
PCB153	NA	50.6	0.065	0.2	ng/dry g	74		68	60 - 140% PASS			
PCB156	NA	2.58	0.089	0.2	ng/dry g	6.5		40	60 - 140% FAIL			1
PCB174	NA	15.1	0.12	0.25	ng/dry g	16		94	60 - 140% PASS			
PCB180	NA	31.9	0.154	0.25	ng/dry g	44.3		72	60 - 140% PASS			
PCB183	NA	10.3	0.056	0.25	ng/dry g	12.2		84	60 - 140% PASS			
PCB187	NA	22	0.168	0.25	ng/dry g	25.1		88	60 - 140% PASS			
PCB194	NA	6.47	0.164	0.25	ng/dry g	11.2		58	60 - 140% FAIL			1
PCB195	NA	3.71	0.093	0.25	ng/dry g	3.8		98	60 - 140% PASS			
PCB206	NA	5.74	0.155	0.25	ng/dry g	9.2		62	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
PCB003	NA	6.45	0.1	0.2	ng/dry g	9.26	0	70	50 - 150%	PASS		
PCB005	NA	7.53	0.1	0.2	ng/dry g	9.26	0	81	50 - 150%	PASS		
PCB008	NA	7.37	0.017	0.2	ng/dry g	9.26	0	80	50 - 150%	PASS		
PCB015	NA	8.06	0.1	0.2	ng/dry g	9.26	0	87	50 - 150%	PASS		
PCB018	NA	8.16	0.029	0.2	ng/dry g	9.26	0	88	50 - 150%	PASS		
PCB027	NA	8.18	0.1	0.2	ng/dry g	9.26	0	88	50 - 150%	PASS		
PCB028	NA	8.43	0.023	0.2	ng/dry g	9.26	0	91	50 - 150%	PASS		
PCB029	NA	8.93	0.1	0.2	ng/dry g	9.26	0	96	50 - 150%	PASS		
PCB031	NA	8.75	0.1	0.2	ng/dry g	9.26	0	94	50 - 150%	PASS		
PCB033	NA	9.38	0.1	0.2	ng/dry g	9.26	0	101	50 - 150%	PASS		
PCB037	NA	9.46	0.06	0.2	ng/dry g	9.26	0	102	50 - 150%	PASS		
PCB044	NA	9.59	0.028	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS		
PCB049	NA	9.59	0.036	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS		
PCB052	NA	9.1	0.012	0.2	ng/dry g	9.26	0	98	50 - 150%	PASS		
PCB056(060)	NA	8.89	0.1	0.2	ng/dry g	9.26	0	96	50 - 150%	PASS		
PCB066	NA	9.88	0.027	0.2	ng/dry g	9.26	0	107	50 - 150%	PASS		
PCB070	NA	9.89	0.023	0.2	ng/dry g	9.26	0	107	50 - 150%	PASS		
PCB074	NA	9.53	0.021	0.2	ng/dry g	9.26	0	103	50 - 150%	PASS		
PCB077	NA	10.2	0.018	0.2	ng/dry g	9.26	0	110	50 - 150%	PASS		
PCB081	NA	10.4	0.084	0.2	ng/dry g	9.26	0	112	50 - 150%	PASS		
PCB087	NA	9.9	0.081	0.2	ng/dry g	9.26	0	107	50 - 150%	PASS		
PCB095	NA	9.17	0.1	0.2	ng/dry g	9.26	0.105	98	50 - 150%	PASS		
PCB097	NA	10.6	0.1	0.2	ng/dry g	9.26	0	114	50 - 150%	PASS		
PCB099	NA	9.86	0.028	0.2	ng/dry g	9.26	0	106	50 - 150%	PASS		
PCB101	NA	9.23	0.027	0.2	ng/dry g	9.26	0.177	98	50 - 150%	PASS		
PCB105	NA	8.06	0.047	0.2	ng/dry g	9.26	0	87	50 - 150%	PASS		
PCB110	NA	9.44	0.074	0.2	ng/dry g	9.26	0	102	50 - 150%	PASS		
PCB114	NA	9.53	0.072	0.2	ng/dry g	9.26	0	103	50 - 150%	PASS		
PCB118	NA	9.61	0.069	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	9.6	0.071	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS			
PCB123	NA	9.31	0.018	0.2	ng/dry g	9.26	0	101	50 - 150%	PASS			
PCB126	NA	9.48	0.086	0.2	ng/dry g	9.26	0	102	50 - 150%	PASS			
PCB128	NA	9.66	0.081	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS			
PCB137	NA	8.5	0.1	0.2	ng/dry g	9.26	0	92	50 - 150%	PASS			
PCB138	NA	9.03	0.057	0.2	ng/dry g	9.26	0.298	94	50 - 150%	PASS			
PCB141	NA	8.06	0.1	0.2	ng/dry g	9.26	0	87	50 - 150%	PASS			
PCB149	NA	8.73	0.092	0.2	ng/dry g	9.26	0.17	92	50 - 150%	PASS			
PCB151	NA	10.6	0.073	0.2	ng/dry g	9.26	0	114	50 - 150%	PASS			
PCB153	NA	8.87	0.065	0.2	ng/dry g	9.26	0.317	92	50 - 150%	PASS			
PCB156	NA	10.8	0.089	0.2	ng/dry g	9.26	0	117	50 - 150%	PASS			
PCB157	NA	8.21	0.103	0.2	ng/dry g	9.26	0	89	50 - 150%	PASS			
PCB158	NA	8.82	0.074	0.2	ng/dry g	9.26	0.165	93	50 - 150%	PASS			
PCB167	NA	9.6	0.049	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS			
PCB168+132	NA	16.2	0.094	0.2	ng/dry g	18.5	0	88	50 - 150%	PASS			
PCB169	NA	10.7	0.116	0.2	ng/dry g	9.26	0	116	50 - 150%	PASS			
PCB170	NA	9.49	0.118	0.25	ng/dry g	9.26	0	102	50 - 150%	PASS			
PCB174	NA	8.8	0.12	0.25	ng/dry g	9.26	0	95	50 - 150%	PASS			
PCB177	NA	9.58	0.085	0.25	ng/dry g	9.26	0	103	50 - 150%	PASS			
PCB180	NA	10.2	0.154	0.25	ng/dry g	9.26	0	110	50 - 150%	PASS			
PCB183	NA	9.16	0.056	0.25	ng/dry g	9.26	0	99	50 - 150%	PASS			
PCB187	NA	9.24	0.168	0.25	ng/dry g	9.26	0	100	50 - 150%	PASS			
PCB189	NA	10.7	0.109	0.25	ng/dry g	9.26	0	116	50 - 150%	PASS			
PCB194	NA	10.5	0.164	0.25	ng/dry g	9.26	0	113	50 - 150%	PASS			
PCB195	NA	10.2	0.093	0.25	ng/dry g	9.26	0	110	50 - 150%	PASS			
PCB199(200)	NA	8.85	0.12	0.25	ng/dry g	9.26	0	96	50 - 150%	PASS			
PCB201	NA	7.49	0.104	0.25	ng/dry g	9.26	0	81	50 - 150%	PASS			
PCB203	NA	9.53	0.12	0.25	ng/dry g	9.26	0	103	50 - 150%	PASS			
PCB206	NA	10.1	0.155	0.25	ng/dry g	9.26	0	109	50 - 150%	PASS			
PCB209	NA	9.39	0.12	0.25	ng/dry g	9.26	0	101	50 - 150%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 25-Jan-19			
PCB003	NA	7.05	0.1	0.2	ng/dry g	9.26	0	76	50 - 150%	PASS	8	30	PASS	
PCB005	NA	7.92	0.1	0.2	ng/dry g	9.26	0	86	50 - 150%	PASS	6	30	PASS	
PCB008	NA	7.92	0.017	0.2	ng/dry g	9.26	0	86	50 - 150%	PASS	7	30	PASS	
PCB015	NA	8.64	0.1	0.2	ng/dry g	9.26	0	93	50 - 150%	PASS	7	30	PASS	
PCB018	NA	8.82	0.029	0.2	ng/dry g	9.26	0	95	50 - 150%	PASS	8	30	PASS	
PCB027	NA	8.76	0.1	0.2	ng/dry g	9.26	0	95	50 - 150%	PASS	8	30	PASS	
PCB028	NA	8.73	0.023	0.2	ng/dry g	9.26	0	94	50 - 150%	PASS	3	30	PASS	
PCB029	NA	9.48	0.1	0.2	ng/dry g	9.26	0	102	50 - 150%	PASS	6	30	PASS	
PCB031	NA	9.35	0.1	0.2	ng/dry g	9.26	0	101	50 - 150%	PASS	7	30	PASS	
PCB033	NA	9.68	0.1	0.2	ng/dry g	9.26	0	105	50 - 150%	PASS	4	30	PASS	
PCB037	NA	9.69	0.06	0.2	ng/dry g	9.26	0	105	50 - 150%	PASS	3	30	PASS	
PCB044	NA	10.3	0.028	0.2	ng/dry g	9.26	0	111	50 - 150%	PASS	7	30	PASS	
PCB049	NA	9.43	0.036	0.2	ng/dry g	9.26	0	102	50 - 150%	PASS	2	30	PASS	
PCB052	NA	9.93	0.012	0.2	ng/dry g	9.26	0	107	50 - 150%	PASS	9	30	PASS	
PCB056(060)	NA	8.96	0.1	0.2	ng/dry g	9.26	0	97	50 - 150%	PASS	1	30	PASS	
PCB066	NA	10.3	0.027	0.2	ng/dry g	9.26	0	111	50 - 150%	PASS	4	30	PASS	
PCB070	NA	10.7	0.023	0.2	ng/dry g	9.26	0	116	50 - 150%	PASS	8	30	PASS	
PCB074	NA	10.3	0.021	0.2	ng/dry g	9.26	0	111	50 - 150%	PASS	7	30	PASS	
PCB077	NA	10.7	0.018	0.2	ng/dry g	9.26	0	116	50 - 150%	PASS	5	30	PASS	
PCB081	NA	10.5	0.084	0.2	ng/dry g	9.26	0	113	50 - 150%	PASS	1	30	PASS	
PCB087	NA	10.4	0.081	0.2	ng/dry g	9.26	0	112	50 - 150%	PASS	5	30	PASS	
PCB095	NA	9.21	0.1	0.2	ng/dry g	9.26	0.105	98	50 - 150%	PASS	0	30	PASS	
PCB097	NA	10.9	0.1	0.2	ng/dry g	9.26	0	118	50 - 150%	PASS	3	30	PASS	
PCB099	NA	10.1	0.028	0.2	ng/dry g	9.26	0	109	50 - 150%	PASS	3	30	PASS	
PCB101	NA	9.79	0.027	0.2	ng/dry g	9.26	0.177	104	50 - 150%	PASS	6	30	PASS	
PCB105	NA	8.56	0.047	0.2	ng/dry g	9.26	0	92	50 - 150%	PASS	6	30	PASS	
PCB110	NA	9.98	0.074	0.2	ng/dry g	9.26	0	108	50 - 150%	PASS	6	30	PASS	
PCB114	NA	9.85	0.072	0.2	ng/dry g	9.26	0	106	50 - 150%	PASS	3	30	PASS	
PCB118	NA	9.71	0.069	0.2	ng/dry g	9.26	0	105	50 - 150%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	9.95	0.071	0.2	ng/dry g	9.26	0	107	50 - 150%	PASS	3	30	PASS	
PCB123	NA	9.65	0.018	0.2	ng/dry g	9.26	0	104	50 - 150%	PASS	3	30	PASS	
PCB126	NA	10.2	0.086	0.2	ng/dry g	9.26	0	110	50 - 150%	PASS	8	30	PASS	
PCB128	NA	9.79	0.081	0.2	ng/dry g	9.26	0	106	50 - 150%	PASS	2	30	PASS	
PCB137	NA	9.02	0.1	0.2	ng/dry g	9.26	0	97	50 - 150%	PASS	5	30	PASS	
PCB138	NA	9.38	0.057	0.2	ng/dry g	9.26	0.298	98	50 - 150%	PASS	4	30	PASS	
PCB141	NA	8.49	0.1	0.2	ng/dry g	9.26	0	92	50 - 150%	PASS	6	30	PASS	
PCB149	NA	9.19	0.092	0.2	ng/dry g	9.26	0.17	97	50 - 150%	PASS	5	30	PASS	
PCB151	NA	11.1	0.073	0.2	ng/dry g	9.26	0	120	50 - 150%	PASS	5	30	PASS	
PCB153	NA	9.39	0.065	0.2	ng/dry g	9.26	0.317	98	50 - 150%	PASS	6	30	PASS	
PCB156	NA	10.8	0.089	0.2	ng/dry g	9.26	0	117	50 - 150%	PASS	0	30	PASS	
PCB157	NA	8.77	0.103	0.2	ng/dry g	9.26	0	95	50 - 150%	PASS	7	30	PASS	
PCB158	NA	9.43	0.074	0.2	ng/dry g	9.26	0.165	100	50 - 150%	PASS	7	30	PASS	
PCB167	NA	10	0.049	0.2	ng/dry g	9.26	0	108	50 - 150%	PASS	4	30	PASS	
PCB168+132	NA	16.8	0.094	0.2	ng/dry g	18.5	0	91	50 - 150%	PASS	3	30	PASS	
PCB169	NA	11.2	0.116	0.2	ng/dry g	9.26	0	121	50 - 150%	PASS	4	30	PASS	
PCB170	NA	10.5	0.118	0.25	ng/dry g	9.26	0	113	50 - 150%	PASS	10	30	PASS	
PCB174	NA	9.43	0.12	0.25	ng/dry g	9.26	0	102	50 - 150%	PASS	7	30	PASS	
PCB177	NA	10	0.085	0.25	ng/dry g	9.26	0	108	50 - 150%	PASS	5	30	PASS	
PCB180	NA	10.7	0.154	0.25	ng/dry g	9.26	0	116	50 - 150%	PASS	5	30	PASS	
PCB183	NA	9.81	0.056	0.25	ng/dry g	9.26	0	106	50 - 150%	PASS	7	30	PASS	
PCB187	NA	10.1	0.168	0.25	ng/dry g	9.26	0	109	50 - 150%	PASS	9	30	PASS	
PCB189	NA	11.5	0.109	0.25	ng/dry g	9.26	0	124	50 - 150%	PASS	7	30	PASS	
PCB194	NA	11	0.164	0.25	ng/dry g	9.26	0	119	50 - 150%	PASS	5	30	PASS	
PCB195	NA	10.8	0.093	0.25	ng/dry g	9.26	0	117	50 - 150%	PASS	6	30	PASS	
PCB199(200)	NA	9.39	0.12	0.25	ng/dry g	9.26	0	101	50 - 150%	PASS	5	30	PASS	
PCB201	NA	8.45	0.104	0.25	ng/dry g	9.26	0	91	50 - 150%	PASS	12	30	PASS	
PCB203	NA	10.2	0.12	0.25	ng/dry g	9.26	0	110	50 - 150%	PASS	7	30	PASS	
PCB206	NA	10.9	0.155	0.25	ng/dry g	9.26	0	118	50 - 150%	PASS	8	30	PASS	
PCB209	NA	10.3	0.12	0.25	ng/dry g	9.26	0	111	50 - 150%	PASS	9	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18 12:30**			**Received: 18-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 26-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB005	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB008	NA	ND	0.017	0.2	ng/dry g					0	30 PASS	
PCB015	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB018	NA	ND	0.029	0.2	ng/dry g					0	30 PASS	
PCB027	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB028	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB029	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB031	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB033	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB037	NA	ND	0.06	0.2	ng/dry g					0	30 PASS	
PCB044	NA	ND	0.028	0.2	ng/dry g					0	30 PASS	
PCB049	NA	ND	0.036	0.2	ng/dry g					0	30 PASS	
PCB052	NA	ND	0.012	0.2	ng/dry g					0	30 PASS	
PCB056(060)	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB066	NA	ND	0.027	0.2	ng/dry g					0	30 PASS	
PCB070	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB074	NA	ND	0.021	0.2	ng/dry g					0	30 PASS	
PCB077	NA	ND	0.018	0.2	ng/dry g					0	30 PASS	
PCB081	NA	ND	0.084	0.2	ng/dry g					0	30 PASS	
PCB087	NA	ND	0.081	0.2	ng/dry g					0	30 PASS	
PCB095	NA	0.109	0.1	0.2	ng/dry g					7	30 PASS	J
PCB097	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB099	NA	ND	0.028	0.2	ng/dry g					0	30 PASS	
PCB101	NA	0.179	0.027	0.2	ng/dry g					2	30 PASS	J
PCB105	NA	ND	0.047	0.2	ng/dry g					0	30 PASS	
PCB110	NA	ND	0.074	0.2	ng/dry g					0	30 PASS	
PCB114	NA	ND	0.072	0.2	ng/dry g					0	30 PASS	
PCB118	NA	ND	0.069	0.2	ng/dry g					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g					0	30	PASS	
PCB123	NA	ND	0.018	0.2	ng/dry g					0	30	PASS	
PCB126	NA	ND	0.086	0.2	ng/dry g					0	30	PASS	
PCB128	NA	ND	0.081	0.2	ng/dry g					0	30	PASS	
PCB137	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB138	NA	0.281	0.057	0.2	ng/dry g					11	30	PASS	
PCB141	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB149	NA	0.165	0.092	0.2	ng/dry g					5	30	PASS	J
PCB151	NA	ND	0.073	0.2	ng/dry g					0	30	PASS	
PCB153	NA	0.299	0.065	0.2	ng/dry g					12	30	PASS	
PCB156	NA	ND	0.089	0.2	ng/dry g					0	30	PASS	
PCB157	NA	ND	0.103	0.2	ng/dry g					0	30	PASS	
PCB158	NA	0.155	0.074	0.2	ng/dry g					12	30	PASS	J
PCB167	NA	ND	0.049	0.2	ng/dry g					0	30	PASS	
PCB168+132	NA	ND	0.094	0.2	ng/dry g					0	30	PASS	
PCB169	NA	ND	0.116	0.2	ng/dry g					0	30	PASS	
PCB170	NA	ND	0.118	0.25	ng/dry g					0	30	PASS	
PCB174	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB177	NA	ND	0.085	0.25	ng/dry g					0	30	PASS	
PCB180	NA	ND	0.154	0.25	ng/dry g					0	30	PASS	
PCB183	NA	ND	0.056	0.25	ng/dry g					0	30	PASS	
PCB187	NA	ND	0.168	0.25	ng/dry g					0	30	PASS	
PCB189	NA	ND	0.109	0.25	ng/dry g					0	30	PASS	
PCB194	NA	ND	0.164	0.25	ng/dry g					0	30	PASS	
PCB195	NA	ND	0.093	0.25	ng/dry g					0	30	PASS	
PCB199(200)	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB201	NA	ND	0.104	0.25	ng/dry g					0	30	PASS	
PCB203	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB206	NA	ND	0.155	0.25	ng/dry g					0	30	PASS	
PCB209	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 15-Jan-19	
(DFPBDE)	NA	109			% Recovery	100	109	63 - 146%	PASS			
(FTBDE)	NA	95			% Recovery	100	95	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 15-Jan-19		
(DFPBDE)	NA	111			% Recovery	100	0	111	63 - 146%	PASS		
(FTBDE)	NA	96			% Recovery	100	0	96	53 - 138%	PASS		
PBDE017	NA	55	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS		
PBDE028	NA	59.6	0.05	0.1	ng/dry g	50	0	119	60 - 140%	PASS		
PBDE047	NA	57.6	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS		
PBDE049	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140%	PASS		
PBDE066	NA	62	0.05	0.1	ng/dry g	50	0	124	60 - 140%	PASS		
PBDE085	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS		
PBDE099	NA	55.5	0.05	0.1	ng/dry g	50	0	111	60 - 140%	PASS		
PBDE100	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140%	PASS		
PBDE138	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS		
PBDE153	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE154	NA	49.2	0.05	0.1	ng/dry g	50	0	98	60 - 140%	PASS		
PBDE183	NA	41.1	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS		
PBDE190	NA	29.3	0.05	0.1	ng/dry g	50	0	59	60 - 140%	FAIL		Q
PBDE209	NA	58	0.05	0.1	ng/dry g	250	0	23	60 - 140%	FAIL		Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
(DFPBDE)	NA	109			% Recovery	100	0	109	63 - 146%	PASS	2	30	PASS	
(FTBDE)	NA	96			% Recovery	100	0	96	53 - 138%	PASS	0	30	PASS	
PBDE017	NA	55.8	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	2	30	PASS	
PBDE028	NA	58.3	0.05	0.1	ng/dry g	50	0	117	60 - 140%	PASS	2	30	PASS	
PBDE047	NA	60.7	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	5	30	PASS	
PBDE049	NA	55.6	0.05	0.1	ng/dry g	50	0	111	60 - 140%	PASS	0	30	PASS	
PBDE066	NA	61.7	0.05	0.1	ng/dry g	50	0	123	60 - 140%	PASS	1	30	PASS	
PBDE085	NA	60.3	0.05	0.1	ng/dry g	50	0	121	60 - 140%	PASS	1	30	PASS	
PBDE099	NA	59.3	0.05	0.1	ng/dry g	50	0	119	60 - 140%	PASS	7	30	PASS	
PBDE100	NA	57.8	0.05	0.1	ng/dry g	50	0	116	60 - 140%	PASS	3	30	PASS	
PBDE138	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS	
PBDE153	NA	50.7	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30	PASS	
PBDE154	NA	57.5	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS	16	30	PASS	
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS	10	30	PASS	
PBDE190	NA	33.2	0.05	0.1	ng/dry g	50	0	66	60 - 140%	PASS	11	30	PASS	
PBDE209	NA	61.8	0.05	0.1	ng/dry g	250	0	25	60 - 140%	FAIL	8	30	PASS	Q
Sample ID: 20647-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 15-Jan-19			
(DFPBDE)	NA	69			% Recovery	100		69	60 - 140%	PASS				
(FTBDE)	NA	127			% Recovery	100		127	60 - 140%	PASS				
PBDE047	NA	2.38	0.05	0.1	ng/dry g	1.72		138	60 - 140%	PASS				
PBDE099	NA	2.47	0.05	0.1	ng/dry g	2		124	60 - 140%	PASS				
PBDE100	NA	0.541	0.05	0.1	ng/dry g	0.4		135	60 - 140%	PASS				
PBDE153	NA	3.93	0.05	0.1	ng/dry g	6.44		61	60 - 140%	PASS				
PBDE154	NA	0.641	0.05	0.1	ng/dry g	1.06		60	60 - 140%	PASS				
PBDE183	NA	19.5	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS				
PBDE209	NA	69.1	0.05	0.1	ng/dry g	93.5		74	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
(DFPBDE)	NA	90			% Recovery	100	90	63 - 146%	PASS			
(FTBDE)	NA	90			% Recovery	100	90	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
(DFPBDE)	NA	88			% Recovery	100	0	88	63 - 146%	PASS		
(FTBDE)	NA	87			% Recovery	100	0	87	53 - 138%	PASS		
PBDE017	NA	58.7	0.05	0.1	ng/dry g	50	0	117	60 - 140%	PASS		
PBDE028	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS		
PBDE047	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	51.3	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE066	NA	51.3	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE085	NA	46.6	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS		
PBDE099	NA	45.9	0.05	0.1	ng/dry g	50	0	92	60 - 140%	PASS		
PBDE100	NA	44.8	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS		
PBDE138	NA	42.6	0.05	0.1	ng/dry g	50	0	85	60 - 140%	PASS		
PBDE153	NA	43.7	0.05	0.1	ng/dry g	50	0	87	60 - 140%	PASS		
PBDE154	NA	40.8	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS		
PBDE183	NA	41	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS		
PBDE190	NA	32.4	0.05	0.1	ng/dry g	50	0	65	60 - 140%	PASS		
PBDE209	NA	54.4	0.05	0.1	ng/dry g	250	0	22	60 - 140%	FAIL		Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 17-Jan-19			
(DFPBDE)	NA	102			% Recovery	100	0	102	63 - 146%	PASS	15	30	PASS	
(FTBDE)	NA	89			% Recovery	100	0	89	53 - 138%	PASS	2	30	PASS	
PBDE017	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS	3	30	PASS	
PBDE028	NA	63.1	0.05	0.1	ng/dry g	50	0	126	60 - 140%	PASS	5	30	PASS	
PBDE047	NA	57.7	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS	8	30	PASS	
PBDE049	NA	56	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	8	30	PASS	
PBDE066	NA	59.8	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS	15	30	PASS	
PBDE085	NA	56.9	0.05	0.1	ng/dry g	50	0	114	60 - 140%	PASS	20	30	PASS	
PBDE099	NA	54.4	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	17	30	PASS	
PBDE100	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	16	30	PASS	
PBDE138	NA	54.9	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	26	30	PASS	
PBDE153	NA	52.7	0.05	0.1	ng/dry g	50	0	105	60 - 140%	PASS	19	30	PASS	
PBDE154	NA	50.7	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	21	30	PASS	
PBDE183	NA	52.5	0.05	0.1	ng/dry g	50	0	105	60 - 140%	PASS	25	30	PASS	
PBDE190	NA	43.7	0.05	0.1	ng/dry g	50	0	87	60 - 140%	PASS	29	30	PASS	
PBDE209	NA	127	0.05	0.1	ng/dry g	250	0	51	60 - 140%	FAIL	79	30	FAIL	Q
Sample ID: 56512-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 17-Jan-19			
(DFPBDE)	NA	133			% Recovery	100		133	60 - 140%	PASS				
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS				
PBDE047	NA	2.29	0.05	0.1	ng/dry g	1.72		133	60 - 140%	PASS				
PBDE099	NA	2	0.05	0.1	ng/dry g	2		100	60 - 140%	PASS				
PBDE100	NA	0.374	0.05	0.1	ng/dry g	0.4		94	60 - 140%	PASS				
PBDE153	NA	4.38	0.05	0.1	ng/dry g	6.44		68	60 - 140%	PASS				
PBDE154	NA	0.732	0.05	0.1	ng/dry g	1.06		69	60 - 140%	PASS				
PBDE183	NA	19.8	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS				
PBDE209	NA	62.3	0.05	0.1	ng/dry g	93.5		67	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**	**Received: 18-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19		Analyzed: 16-Jan-19		
(DFPBDE)	NA	92			% Recovery	100	0	92	60 - 140%	PASS		
(FTBDE)	NA	100			% Recovery	100	0	100	60 - 140%	PASS		
PBDE017	NA	11.1	0.05	0.1	ng/dry g	9.26	0	120	60 - 140%	PASS		
PBDE028	NA	12	0.05	0.1	ng/dry g	9.26	0	130	60 - 140%	PASS		
PBDE047	NA	10.6	0.05	0.1	ng/dry g	9.26	0.218	112	60 - 140%	PASS		
PBDE049	NA	9.78	0.05	0.1	ng/dry g	9.26	0	106	60 - 140%	PASS		
PBDE066	NA	11.3	0.05	0.1	ng/dry g	9.26	0	122	60 - 140%	PASS		
PBDE085	NA	9.26	0.05	0.1	ng/dry g	9.26	0	100	60 - 140%	PASS		
PBDE099	NA	9.73	0.05	0.1	ng/dry g	9.26	0	105	60 - 140%	PASS		
PBDE100	NA	9.65	0.05	0.1	ng/dry g	9.26	0	104	60 - 140%	PASS		
PBDE138	NA	6.18	0.05	0.1	ng/dry g	9.26	0	67	60 - 140%	PASS		
PBDE153	NA	6.31	0.05	0.1	ng/dry g	9.26	0	68	60 - 140%	PASS		
PBDE154	NA	7.52	0.05	0.1	ng/dry g	9.26	0	81	60 - 140%	PASS		
PBDE183	NA	5.29	0.05	0.1	ng/dry g	9.26	0	57	60 - 140%	FAIL		M
PBDE190	NA	3.6	0.05	0.1	ng/dry g	9.26	0	39	60 - 140%	FAIL		M
PBDE209	NA	9.46	0.05	0.1	ng/dry g	46.3	0.61	19	60 - 140%	FAIL		M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 16-Jan-19			
(DFPBDE)	NA	97			% Recovery	100	0	97	60 - 140%	PASS	5	30	PASS	
(FTBDE)	NA	104			% Recovery	100	0	104	60 - 140%	PASS	4	30	PASS	
PBDE017	NA	11.2	0.05	0.1	ng/dry g	9.26	0	121	60 - 140%	PASS	1	30	PASS	
PBDE028	NA	12.4	0.05	0.1	ng/dry g	9.26	0	134	60 - 140%	PASS	3	30	PASS	
PBDE047	NA	11	0.05	0.1	ng/dry g	9.26	0.218	116	60 - 140%	PASS	4	30	PASS	
PBDE049	NA	10.6	0.05	0.1	ng/dry g	9.26	0	114	60 - 140%	PASS	7	30	PASS	
PBDE066	NA	11.4	0.05	0.1	ng/dry g	9.26	0	123	60 - 140%	PASS	1	30	PASS	
PBDE085	NA	9.9	0.05	0.1	ng/dry g	9.26	0	107	60 - 140%	PASS	7	30	PASS	
PBDE099	NA	10.3	0.05	0.1	ng/dry g	9.26	0	111	60 - 140%	PASS	6	30	PASS	
PBDE100	NA	9.51	0.05	0.1	ng/dry g	9.26	0	103	60 - 140%	PASS	1	30	PASS	
PBDE138	NA	7.33	0.05	0.1	ng/dry g	9.26	0	79	60 - 140%	PASS	16	30	PASS	
PBDE153	NA	7.39	0.05	0.1	ng/dry g	9.26	0	80	60 - 140%	PASS	16	30	PASS	
PBDE154	NA	8.23	0.05	0.1	ng/dry g	9.26	0	89	60 - 140%	PASS	9	30	PASS	
PBDE183	NA	6.86	0.05	0.1	ng/dry g	9.26	0	74	60 - 140%	PASS	26	30	PASS	
PBDE190	NA	4.3	0.05	0.1	ng/dry g	9.26	0	46	60 - 140%	FAIL	16	30	PASS	M
PBDE209	NA	12.3	0.05	0.1	ng/dry g	46.3	0.61	25	60 - 140%	FAIL	27	30	PASS	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 16-Jan-19			
(DFPBDE)	NA	93			% Recovery	100	93	27 - 129%	PASS	1	30	PASS	
(FTBDE)	NA	103			% Recovery	100	103	54 - 136%	PASS	9	30	PASS	
PBDE017	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE028	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE047	NA	0.207	0.05	0.1	ng/dry g					10	30	PASS	
PBDE049	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE066	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE085	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE099	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE100	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE138	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE153	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE154	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE183	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE190	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE209	NA	0.553	0.05	0.1	ng/dry g					19	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	74			% Recovery	100	74	50 - 112%	PASS			
(d10-Phenanthrene)	NA	98			% Recovery	100	98	59 - 121%	PASS			
(d12-Chrysene)	NA	117			% Recovery	100	117	52 - 144%	PASS			
(d12-Perylene)	NA	91			% Recovery	100	91	50 - 150%	PASS			
(d8-Naphthalene)	NA	56			% Recovery	100	56	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19					Analyzed: 25-Jan-19	
(d10-Acenaphthene)	NA	69			% Recovery	100	0	69	50 - 112%	PASS			
(d10-Phenanthrene)	NA	101			% Recovery	100	0	101	59 - 121%	PASS			
(d12-Chrysene)	NA	128			% Recovery	100	0	128	52 - 144%	PASS			
(d12-Perylene)	NA	93			% Recovery	100	0	93	60 - 140%	PASS			
(d8-Naphthalene)	NA	44			% Recovery	100	0	44	60 - 140%	FAIL			Q
1,6,7-Trimethylnapthalene	NA	367	0.059	0.5	ng/dry g	500	0	73	60 - 140%	PASS			
1-Methylnaphthalene	NA	245	0.084	0.5	ng/dry g	500	0	49	60 - 140%	FAIL			Q
1-Methylphenanthrene	NA	605	0.076	0.5	ng/dry g	500	0	121	60 - 140%	PASS			
2,6-Dimethylnaphthalene	NA	293	0.065	0.5	ng/dry g	500	0	59	60 - 140%	FAIL			Q
2-Methylnaphthalene	NA	250	0.106	0.5	ng/dry g	500	0	50	60 - 140%	FAIL			Q
Acenaphthene	NA	300	0.078	0.5	ng/dry g	500	0	60	60 - 140%	PASS			
Acenaphthylene	NA	293	0.058	0.5	ng/dry g	500	0	59	60 - 140%	FAIL			Q
Anthracene	NA	423	0.046	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Benz[a]anthracene	NA	747	0.107	0.5	ng/dry g	500	0	149	60 - 140%	FAIL			Q
Benzo[a]pyrene	NA	443	0.106	0.5	ng/dry g	500	0	89	60 - 140%	PASS			
Benzo[b]fluoranthene	NA	568	0.063	0.5	ng/dry g	500	0	114	60 - 140%	PASS			
Benzo[e]pyrene	NA	516	0.098	0.5	ng/dry g	500	0	103	60 - 140%	PASS			
Benzo[g,h,i]perylene	NA	459	0.093	0.5	ng/dry g	500	0	92	60 - 140%	PASS			
Benzo[k]fluoranthene	NA	484	0.111	0.5	ng/dry g	500	0	97	60 - 140%	PASS			
Biphenyl	NA	275	0.092	0.5	ng/dry g	500	0	55	60 - 140%	FAIL			Q
Chrysene	NA	501	0.067	0.5	ng/dry g	500	0	100	60 - 140%	PASS			
Dibenz[a,h]anthracene	NA	649	0.106	0.5	ng/dry g	500	0	130	60 - 140%	PASS			
Dibenzothiophene	NA	445	0.2	0.5	ng/dry g	500	0	89	60 - 140%	PASS			
Fluoranthene	NA	619	0.035	0.5	ng/dry g	500	0	124	60 - 140%	PASS			
Fluorene	NA	366	0.068	0.5	ng/dry g	500	0	73	60 - 140%	PASS			
Indeno[1,2,3-cd]pyrene	NA	657	0.087	0.5	ng/dry g	500	0	131	60 - 140%	PASS			
Naphthalene	NA	205	0.187	0.5	ng/dry g	500	0	41	60 - 140%	FAIL			Q
Perylene	NA	423	0.114	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Phenanthrene	NA	448	0.074	0.5	ng/dry g	500	0	90	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	613	0.048	0.5	ng/dry g	500	0	123	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19				Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	70			% Recovery	100	0	70	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	96			% Recovery	100	0	96	59 - 121%	PASS	5	30	PASS	
(d12-Chrysene)	NA	121			% Recovery	100	0	121	52 - 144%	PASS	6	30	PASS	
(d12-Perylene)	NA	91			% Recovery	100	0	91	60 - 140%	PASS	2	30	PASS	
(d8-Naphthalene)	NA	48			% Recovery	100	0	48	60 - 140%	FAIL	9	30	PASS	Q
1,6,7-Trimethylnapthalene	NA	361	0.059	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	264	0.084	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	8	30	PASS	Q
1-Methylphenanthrene	NA	579	0.076	0.5	ng/dry g	500	0	116	60 - 140%	PASS	4	30	PASS	
2,6-Dimethylnaphthalene	NA	299	0.065	0.5	ng/dry g	500	0	60	60 - 140%	PASS	2	30	PASS	
2-Methylnaphthalene	NA	266	0.106	0.5	ng/dry g	500	0	53	60 - 140%	FAIL	6	30	PASS	Q
Acenaphthene	NA	306	0.078	0.5	ng/dry g	500	0	61	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	306	0.058	0.5	ng/dry g	500	0	61	60 - 140%	PASS	3	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	5	30	PASS	
Benz[a]anthracene	NA	732	0.107	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Benzo[a]pyrene	NA	431	0.106	0.5	ng/dry g	500	0	86	60 - 140%	PASS	3	30	PASS	
Benzo[b]fluoranthene	NA	554	0.063	0.5	ng/dry g	500	0	111	60 - 140%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	521	0.098	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS	
Benzo[g,h,i]perylene	NA	452	0.093	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
Benzo[k]fluoranthene	NA	476	0.111	0.5	ng/dry g	500	0	95	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	287	0.092	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	4	30	PASS	Q
Chrysene	NA	469	0.067	0.5	ng/dry g	500	0	94	60 - 140%	PASS	6	30	PASS	
Dibenz[a,h]anthracene	NA	637	0.106	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
Dibenzothiophene	NA	443	0.2	0.5	ng/dry g	500	0	89	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	592	0.035	0.5	ng/dry g	500	0	118	60 - 140%	PASS	5	30	PASS	
Fluorene	NA	359	0.068	0.5	ng/dry g	500	0	72	60 - 140%	PASS	1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	641	0.087	0.5	ng/dry g	500	0	128	60 - 140%	PASS	2	30	PASS	
Naphthalene	NA	229	0.187	0.5	ng/dry g	500	0	46	60 - 140%	FAIL	11	30	PASS	Q
Perylene	NA	424	0.114	0.5	ng/dry g	500	0	85	60 - 140%	PASS	0	30	PASS	
Phenanthrene	NA	434	0.074	0.5	ng/dry g	500	0	87	60 - 140%	PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	585	0.048	0.5	ng/dry g	500	0	117	60 - 140%	PASS	5	30	PASS	
Sample ID: 20647-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 25-Jan-19			
(d10-Acenaphthene)	NA	91			% Recovery	100		91	44 - 144%	PASS				
(d10-Phenanthrene)	NA	99			% Recovery	100		99	60 - 134%	PASS				
(d12-Chrysene)	NA	65			% Recovery	100		65	27 - 158%	PASS				
(d12-Perylene)	NA	85			% Recovery	100		85	17 - 160%	PASS				
(d8-Naphthalene)	NA	63			% Recovery	100		63	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.416	0.106	0.5	ug/dry g	0.74		56	60 - 140%	FAIL				1
Benz[a]anthracene	NA	2.89	0.107	0.5	ug/dry g	4.72		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.92	0.106	0.5	ug/dry g	4.3		68	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	4.6	0.063	0.5	ug/dry g	3.87		119	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.48	0.098	0.5	ug/dry g	3.28		106	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.82	0.093	0.5	ug/dry g	2.84		99	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	4.14	0.111	0.5	ug/dry g	4.39		94	60 - 140%	PASS				
Chrysene	NA	4	0.067	0.5	ug/dry g	4.86		82	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.874	0.106	0.5	ug/dry g	0.924		95	60 - 140%	PASS				
Fluoranthene	NA	5.89	0.035	0.5	ug/dry g	8.92		66	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	1.8	0.087	0.5	ug/dry g	2.78		65	60 - 140%	PASS				
Perylene	NA	0.742	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	3.4	0.074	0.5	ug/dry g	5.27		65	60 - 140%	PASS				
Pyrene	NA	5.96	0.048	0.5	ug/dry g	9.7		61	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19	
(d10-Acenaphthene)	NA	76			% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	96			% Recovery	100	96	59 - 121%	PASS			
(d12-Chrysene)	NA	129			% Recovery	100	129	52 - 144%	PASS			
(d12-Perylene)	NA	89			% Recovery	100	89	50 - 150%	PASS			
(d8-Naphthalene)	NA	54			% Recovery	100	54	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	80			% Recovery	100	0	80	50 - 112% PASS			
(d10-Phenanthrene)	NA	102			% Recovery	100	0	102	59 - 121% PASS			
(d12-Chrysene)	NA	142			% Recovery	100	0	142	52 - 144% PASS			
(d12-Perylene)	NA	93			% Recovery	100	0	93	60 - 140% PASS			
(d8-Naphthalene)	NA	52			% Recovery	100	0	52	60 - 140% FAIL			Q
1,6,7-Trimethylnapthalene	NA	416	0.059	0.5	ng/dry g	500	0	83	60 - 140% PASS			
1-Methylnaphthalene	NA	294	0.084	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	613	0.076	0.5	ng/dry g	500	0	123	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	348	0.065	0.5	ng/dry g	500	0	70	60 - 140% PASS			
2-Methylnaphthalene	NA	303	0.106	0.5	ng/dry g	500	0	61	60 - 140% PASS			
Acenaphthene	NA	349	0.078	0.5	ng/dry g	500	0	70	60 - 140% PASS			
Acenaphthylene	NA	366	0.058	0.5	ng/dry g	500	0	73	60 - 140% PASS			
Anthracene	NA	417	0.046	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Benz[a]anthracene	NA	856	0.107	0.5	ng/dry g	500	0	171	60 - 140% FAIL			R
Benzo[a]pyrene	NA	462	0.106	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Benzo[b]fluoranthene	NA	657	0.063	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Benzo[e]pyrene	NA	548	0.098	0.5	ng/dry g	500	0	110	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	432	0.093	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Benzo[k]fluoranthene	NA	516	0.111	0.5	ng/dry g	500	0	103	60 - 140% PASS			
Biphenyl	NA	321	0.092	0.5	ng/dry g	500	0	64	60 - 140% PASS			
Chrysene	NA	558	0.067	0.5	ng/dry g	500	0	112	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	620	0.106	0.5	ng/dry g	500	0	124	60 - 140% PASS			
Dibenzothiophene	NA	466	0.2	0.5	ng/dry g	500	0	93	60 - 140% PASS			
Fluoranthene	NA	648	0.035	0.5	ng/dry g	500	0	130	60 - 140% PASS			
Fluorene	NA	392	0.068	0.5	ng/dry g	500	0	78	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	694	0.087	0.5	ng/dry g	500	0	139	60 - 140% PASS			
Naphthalene	NA	241	0.187	0.5	ng/dry g	500	0	48	60 - 140% FAIL			Q
Perylene	NA	409	0.114	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Phenanthrene	NA	441	0.074	0.5	ng/dry g	500	0	88	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	635	0.048	0.5	ng/dry g	500	0	127	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19			
(d10-Acenaphthene)	NA	77			% Recovery	100	0	77	50 - 112%	PASS	4	30	PASS	
(d10-Phenanthrene)	NA	103			% Recovery	100	0	103	59 - 121%	PASS	1	30	PASS	
(d12-Chrysene)	NA	142			% Recovery	100	0	142	52 - 144%	PASS	0	30	PASS	
(d12-Perylene)	NA	96			% Recovery	100	0	96	60 - 140%	PASS	3	30	PASS	
(d8-Naphthalene)	NA	46			% Recovery	100	0	46	60 - 140%	FAIL	12	30	PASS	Q
1,6,7-Trimethylnapthalene	NA	412	0.059	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	271	0.084	0.5	ng/dry g	500	0	54	60 - 140%	FAIL	9	30	PASS	Q
1-Methylphenanthrene	NA	616	0.076	0.5	ng/dry g	500	0	123	60 - 140%	PASS	0	30	PASS	
2,6-Dimethylnaphthalene	NA	326	0.065	0.5	ng/dry g	500	0	65	60 - 140%	PASS	7	30	PASS	
2-Methylnaphthalene	NA	275	0.106	0.5	ng/dry g	500	0	55	60 - 140%	FAIL	10	30	PASS	Q
Acenaphthene	NA	336	0.078	0.5	ng/dry g	500	0	67	60 - 140%	PASS	4	30	PASS	
Acenaphthylene	NA	349	0.058	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Anthracene	NA	421	0.046	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
Benz[a]anthracene	NA	855	0.107	0.5	ng/dry g	500	0	171	60 - 140%	FAIL	0	30	PASS	R
Benzo[a]pyrene	NA	478	0.106	0.5	ng/dry g	500	0	96	60 - 140%	PASS	4	30	PASS	
Benzo[b]fluoranthene	NA	675	0.063	0.5	ng/dry g	500	0	135	60 - 140%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	560	0.098	0.5	ng/dry g	500	0	112	60 - 140%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	NA	450	0.093	0.5	ng/dry g	500	0	90	60 - 140%	PASS	5	30	PASS	
Benzo[k]fluoranthene	NA	526	0.111	0.5	ng/dry g	500	0	105	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	299	0.092	0.5	ng/dry g	500	0	60	60 - 140%	PASS	6	30	PASS	
Chrysene	NA	570	0.067	0.5	ng/dry g	500	0	114	60 - 140%	PASS	2	30	PASS	
Dibenz[a,h]anthracene	NA	668	0.106	0.5	ng/dry g	500	0	134	60 - 140%	PASS	8	30	PASS	
Dibenzothiophene	NA	467	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	654	0.035	0.5	ng/dry g	500	0	131	60 - 140%	PASS	1	30	PASS	
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140%	PASS	1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	718	0.087	0.5	ng/dry g	500	0	144	60 - 140%	FAIL	4	30	PASS	Q
Naphthalene	NA	212	0.187	0.5	ng/dry g	500	0	42	60 - 140%	FAIL	13	30	PASS	Q
Perylene	NA	434	0.114	0.5	ng/dry g	500	0	87	60 - 140%	PASS	6	30	PASS	
Phenanthrene	NA	444	0.074	0.5	ng/dry g	500	0	89	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	648	0.048	0.5	ng/dry g	500	0	130	60 - 140%	PASS	2	30	PASS	
Sample ID: 56512-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	101			% Recovery	100		101	44 - 144%	PASS				
(d10-Phenanthrene)	NA	106			% Recovery	100		106	60 - 134%	PASS				
(d12-Chrysene)	NA	60			% Recovery	100		60	27 - 158%	PASS				
(d12-Perylene)	NA	95			% Recovery	100		95	17 - 160%	PASS				
(d8-Naphthalene)	NA	68			% Recovery	100		68	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.486	0.106	0.5	ug/dry g	0.74		66	60 - 140%	PASS				
Benz[a]anthracene	NA	3.18	0.107	0.5	ug/dry g	4.72		67	60 - 140%	PASS				
Benzo[a]pyrene	NA	3.32	0.106	0.5	ug/dry g	4.3		77	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	2.7	0.063	0.5	ug/dry g	3.87		70	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.85	0.098	0.5	ug/dry g	3.28		117	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.82	0.093	0.5	ug/dry g	2.84		99	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	4.54	0.111	0.5	ug/dry g	4.39		103	60 - 140%	PASS				
Chrysene	NA	4.385	0.067	0.5	ug/dry g	4.86		90	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.805	0.106	0.5	ug/dry g	0.924		87	60 - 140%	PASS				
Fluoranthene	NA	6.74	0.035	0.5	ug/dry g	8.92		76	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	1.98	0.087	0.5	ug/dry g	2.78		71	60 - 140%	PASS				
Perylene	NA	0.729	0.114	0.5	ug/dry g	1.17		62	60 - 140%	PASS				
Phenanthrene	NA	3.79	0.074	0.5	ug/dry g	5.27		72	60 - 140%	PASS				
Pyrene	NA	6.95	0.048	0.5	ug/dry g	9.7		72	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 25-Jan-19		
(d10-Acenaphthene)	NA	71			% Recovery	100	0	71	23 - 117%	PASS		
(d10-Phenanthrene)	NA	95			% Recovery	100	0	95	24 - 127%	PASS		
(d12-Chrysene)	NA	125			% Recovery	100	0	125	22 - 148%	PASS		
(d12-Perylene)	NA	95			% Recovery	100	0	95	50 - 150%	PASS		
(d8-Naphthalene)	NA	42			% Recovery	100	0	42	8 - 105%	PASS		
1,6,7-Trimethylnapthalene	NA	71.8	0.059	0.5	ng/dry g	92.6	1.29	76	60 - 140%	PASS		
1-Methylnaphthalene	NA	45.8	0.084	0.5	ng/dry g	92.6	0.975	48	60 - 140%	FAIL		Q
1-Methylphenanthrene	NA	110	0.076	0.5	ng/dry g	92.6	1.67	117	60 - 140%	PASS		
2,6-Dimethylnaphthalene	NA	56.4	0.065	0.5	ng/dry g	92.6	0.793	60	60 - 140%	PASS		
2-Methylnaphthalene	NA	46.6	0.106	0.5	ng/dry g	92.6	1.96	48	60 - 140%	FAIL		Q
Acenaphthene	NA	56.7	0.078	0.5	ng/dry g	92.6	0.106	61	60 - 140%	PASS		
Acenaphthylene	NA	64.9	0.058	0.5	ng/dry g	92.6	0.525	70	60 - 140%	PASS		
Anthracene	NA	78.8	0.046	0.5	ng/dry g	92.6	1.55	83	60 - 140%	PASS		
Benz[a]anthracene	NA	159	0.107	0.5	ng/dry g	92.6	16.2	154	60 - 140%	FAIL		M
Benzo[a]pyrene	NA	92.3	0.106	0.5	ng/dry g	92.6	8.99	90	60 - 140%	PASS		
Benzo[b]fluoranthene	NA	124	0.063	0.5	ng/dry g	92.6	10	123	60 - 140%	PASS		
Benzo[e]pyrene	NA	104	0.098	0.5	ng/dry g	92.6	7.5	104	60 - 140%	PASS		
Benzo[g,h,i]perylene	NA	92.8	0.093	0.5	ng/dry g	92.6	7.4	92	60 - 140%	PASS		
Benzo[k]fluoranthene	NA	100	0.111	0.5	ng/dry g	92.6	8.84	98	60 - 140%	PASS		
Biphenyl	NA	49.6	0.092	0.5	ng/dry g	92.6	0.398	53	60 - 140%	FAIL		Q
Chrysene	NA	103	0.067	0.5	ng/dry g	92.6	8.03	103	60 - 140%	PASS		
Dibenz[a,h]anthracene	NA	141	0.106	0.5	ng/dry g	92.6	3.85	148	60 - 140%	FAIL		M
Dibenzothiophene	NA	80.4	0.2	0.5	ng/dry g	92.6	0.469	86	60 - 140%	PASS		
Fluoranthene	NA	124	0.035	0.5	ng/dry g	92.6	12.6	120	60 - 140%	PASS		
Fluorene	NA	69	0.068	0.5	ng/dry g	92.6	0.74	74	60 - 140%	PASS		
Indeno[1,2,3-cd]pyrene	NA	151	0.087	0.5	ng/dry g	92.6	19.5	142	60 - 140%	FAIL		M
Naphthalene	NA	37.2	0.187	0.5	ng/dry g	92.6	3.13	37	60 - 140%	FAIL		Q
Perylene	NA	84.3	0.114	0.5	ng/dry g	92.6	1.96	89	60 - 140%	PASS		
Phenanthrene	NA	81.9	0.074	0.5	ng/dry g	92.6	5.89	82	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	123	0.048	0.5	ng/dry g	92.6	12.8	119	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 25-Jan-19			
(d10-Acenaphthene)	NA	72			% Recovery	100	0	72	23 - 117%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	99			% Recovery	100	0	99	24 - 127%	PASS	4	30	PASS	
(d12-Chrysene)	NA	127			% Recovery	100	0	127	22 - 148%	PASS	2	30	PASS	
(d12-Perylene)	NA	99			% Recovery	100	0	99	50 - 150%	PASS	4	30	PASS	
(d8-Naphthalene)	NA	38			% Recovery	100	0	38	8 - 105%	PASS	10	30	PASS	
1,6,7-Trimethylnapthalene	NA	72.2	0.059	0.5	ng/dry g	92.6	1.29	77	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	44.5	0.084	0.5	ng/dry g	92.6	0.975	47	60 - 140%	FAIL	2	30	PASS	Q
1-Methylphenanthrene	NA	111	0.076	0.5	ng/dry g	92.6	1.67	118	60 - 140%	PASS	1	30	PASS	
2,6-Dimethylnaphthalene	NA	56.2	0.065	0.5	ng/dry g	92.6	0.793	60	60 - 140%	PASS	0	30	PASS	
2-Methylnaphthalene	NA	45.5	0.106	0.5	ng/dry g	92.6	1.96	47	60 - 140%	FAIL	2	30	PASS	Q
Acenaphthene	NA	57.2	0.078	0.5	ng/dry g	92.6	0.106	62	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	62.8	0.058	0.5	ng/dry g	92.6	0.525	67	60 - 140%	PASS	4	30	PASS	
Anthracene	NA	81.5	0.046	0.5	ng/dry g	92.6	1.55	86	60 - 140%	PASS	4	30	PASS	
Benz[a]anthracene	NA	159	0.107	0.5	ng/dry g	92.6	16.2	154	60 - 140%	FAIL	0	30	PASS	M
Benzo[a]pyrene	NA	97	0.106	0.5	ng/dry g	92.6	8.99	95	60 - 140%	PASS	5	30	PASS	
Benzo[b]fluoranthene	NA	126	0.063	0.5	ng/dry g	92.6	10	125	60 - 140%	PASS	2	30	PASS	
Benzo[e]pyrene	NA	108	0.098	0.5	ng/dry g	92.6	7.5	109	60 - 140%	PASS	5	30	PASS	
Benzo[g,h,i]perylene	NA	96.6	0.093	0.5	ng/dry g	92.6	7.4	96	60 - 140%	PASS	4	30	PASS	
Benzo[k]fluoranthene	NA	102	0.111	0.5	ng/dry g	92.6	8.84	101	60 - 140%	PASS	3	30	PASS	
Biphenyl	NA	49.6	0.092	0.5	ng/dry g	92.6	0.398	53	60 - 140%	FAIL	0	30	PASS	Q
Chrysene	NA	105	0.067	0.5	ng/dry g	92.6	8.03	105	60 - 140%	PASS	2	30	PASS	
Dibenz[a,h]anthracene	NA	143	0.106	0.5	ng/dry g	92.6	3.85	150	60 - 140%	FAIL	1	30	PASS	M
Dibenzothiophene	NA	84	0.2	0.5	ng/dry g	92.6	0.469	90	60 - 140%	PASS	5	30	PASS	
Fluoranthene	NA	124	0.035	0.5	ng/dry g	92.6	12.6	120	60 - 140%	PASS	0	30	PASS	
Fluorene	NA	71.1	0.068	0.5	ng/dry g	92.6	0.74	76	60 - 140%	PASS	3	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	154	0.087	0.5	ng/dry g	92.6	19.5	145	60 - 140%	FAIL	2	30	PASS	M
Naphthalene	NA	33.1	0.187	0.5	ng/dry g	92.6	3.13	32	60 - 140%	FAIL	14	30	PASS	Q
Perylene	NA	87.6	0.114	0.5	ng/dry g	92.6	1.96	92	60 - 140%	PASS	3	30	PASS	
Phenanthrene	NA	85.5	0.074	0.5	ng/dry g	92.6	5.89	86	60 - 140%	PASS	5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	123	0.048	0.5	ng/dry g	92.6	12.8	119	60 - 140%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18 12:30**				**Received: 18-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 26-Jan-19			
(d10-Acenaphthene)	NA	68			% Recovery	100	68	23 - 117%	PASS		1	30	PASS	
(d10-Phenanthrene)	NA	83			% Recovery	100	83	24 - 127%	PASS		6	30	PASS	
(d12-Chrysene)	NA	115			% Recovery	100	115	22 - 148%	PASS		2	30	PASS	
(d12-Perylene)	NA	92			% Recovery	100	92	50 - 150%	PASS		0	30	PASS	
(d8-Naphthalene)	NA	54			% Recovery	100	54	8 - 105%	PASS		20	30	PASS	
1,6,7-Trimethylnapthalene	NA	1.41	0.059	0.5	ng/dry g						18	30	PASS	
1-Methylnaphthalene	NA	1.02	0.084	0.5	ng/dry g						9	30	PASS	
1-Methylphenanthrene	NA	1.84	0.076	0.5	ng/dry g						20	30	PASS	
2,6-Dimethylnaphthalene	NA	0.828	0.065	0.5	ng/dry g						9	30	PASS	
2-Methylnaphthalene	NA	2.03	0.106	0.5	ng/dry g						7	30	PASS	
Acenaphthene	NA	0.212	0.078	0.5	ng/dry g						92	30	FAIL	J,SL
Acenaphthylene	NA	0.557	0.058	0.5	ng/dry g						12	30	PASS	
Anthracene	NA	1.58	0.046	0.5	ng/dry g						3	30	PASS	
Benz[a]anthracene	NA	18	0.107	0.5	ng/dry g						23	30	PASS	
Benzo[a]pyrene	NA	10.5	0.106	0.5	ng/dry g						34	30	FAIL	NH
Benzo[b]fluoranthene	NA	11.1	0.063	0.5	ng/dry g						22	30	PASS	
Benzo[e]pyrene	NA	8.49	0.098	0.5	ng/dry g						26	30	PASS	
Benzo[g,h,i]perylene	NA	8.07	0.093	0.5	ng/dry g						18	30	PASS	
Benzo[k]fluoranthene	NA	10	0.111	0.5	ng/dry g						26	30	PASS	
Biphenyl	NA	0.404	0.092	0.5	ng/dry g						3	30	PASS	J
Chrysene	NA	9.13	0.067	0.5	ng/dry g						27	30	PASS	
Dibenz[a,h]anthracene	NA	4.02	0.106	0.5	ng/dry g						9	30	PASS	
Dibenzothiophene	NA	0.452	0.2	0.5	ng/dry g						7	30	PASS	J
Fluoranthene	NA	15.3	0.035	0.5	ng/dry g						43	30	FAIL	NH
Fluorene	NA	0.738	0.068	0.5	ng/dry g						1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	21.2	0.087	0.5	ng/dry g						17	30	PASS	
Naphthalene	NA	3.29	0.187	0.5	ng/dry g						10	30	PASS	
Perylene	NA	2.19	0.114	0.5	ng/dry g						24	30	PASS	
Phenanthrene	NA	6.21	0.074	0.5	ng/dry g						11	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	15.5	0.048	0.5	ng/dry g					42	30	FAIL	NH

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 23-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 20646-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 24-Jan-19		
Allethrin	NA	644	0.28	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Bifenthrin	NA	527	0.22	0.5	ng/dry g	500	0	105	60 - 140%		PASS	
Cyfluthrin	NA	567	0.25	0.5	ng/dry g	500	0	113	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	647	0.23	0.5	ng/dry g	500	0	129	60 - 140%		PASS	
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	611	0.21	0.5	ng/dry g	500	0	122	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Esfenvalerate	NA	452	0.25	0.5	ng/dry g	500	0	90	60 - 140%		PASS	
Fenvalerate	NA	489	0.25	0.5	ng/dry g	500	0	98	60 - 140%		PASS	
Fluvalinate	NA	446	0.23	0.5	ng/dry g	500	0	89	60 - 140%		PASS	
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%		PASS	
Permethrin, trans-	NA	402	0.22	0.5	ng/dry g	358	0	112	60 - 140%		PASS	
Prallethrin	NA	566	0.28	0.5	ng/dry g	500	0	113	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20646-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19				Analyzed: 24-Jan-19		
Allethrin	NA	629	0.28	0.5	ng/dry g	500	0	126	60 - 140%	PASS	2	30	PASS
Bifenthrin	NA	545	0.22	0.5	ng/dry g	500	0	109	60 - 140%	PASS	4	30	PASS
Cyfluthrin	NA	583	0.25	0.5	ng/dry g	500	0	117	60 - 140%	PASS	3	30	PASS
Cyhalothrin, Total Lambda	NA	663	0.23	0.5	ng/dry g	500	0	133	60 - 140%	PASS	3	30	PASS
Cypermethrin	NA	556	0.25	0.5	ng/dry g	500	0	111	60 - 140%	PASS	2	30	PASS
Danitol (Fenpropathrin)	NA	630	0.21	0.5	ng/dry g	500	0	126	60 - 140%	PASS	3	30	PASS
Deltamethrin/Tralomethrin	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30	PASS
Esfenvalerate	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30	PASS
Fenvalerate	NA	485	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS	1	30	PASS
Fluvalinate	NA	450	0.23	0.5	ng/dry g	500	0	90	60 - 140%	PASS	1	30	PASS
Permethrin, cis-	NA	158	0.17	0.5	ng/dry g	134	0	118	60 - 140%	PASS	3	30	PASS
Permethrin, trans-	NA	412	0.22	0.5	ng/dry g	358	0	115	60 - 140%	PASS	3	30	PASS
Prallethrin	NA	422	0.28	0.5	ng/dry g	500	0	84	60 - 140%	PASS	29	30	PASS
Sample ID: 56510-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 21-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g								
Bifenthrin	NA	ND	0.22	0.5	ng/dry g								
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g								
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g								
Cypermethrin	NA	ND	0.25	0.5	ng/dry g								
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g								
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g								
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fluvalinate	NA	ND	0.23	0.5	ng/dry g								
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g								
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g								
Prallethrin	NA	ND	0.28	0.5	ng/dry g								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56510-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 22-Jan-19			
Allethrin	NA	514	0.28	0.5	ng/dry g	500	0	103	60 - 140%	PASS			
Bifenthrin	NA	467	0.22	0.5	ng/dry g	500	0	93	60 - 140%	PASS			
Cyfluthrin	NA	430	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS			
Cyhalothrin, Total Lambda	NA	477	0.23	0.5	ng/dry g	500	0	95	60 - 140%	PASS			
Cypermethrin	NA	410	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS			
Danitol (Fenpropathrin)	NA	547	0.21	0.5	ng/dry g	500	0	109	60 - 140%	PASS			
Deltamethrin/Tralomethrin	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS			
Esfenvalerate	NA	387	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS			
Fenvalerate	NA	398	0.25	0.5	ng/dry g	500	0	80	60 - 140%	PASS			
Fluvalinate	NA	389	0.23	0.5	ng/dry g	500	0	78	60 - 140%	PASS			
Permethrin, cis-	NA	129	0.17	0.5	ng/dry g	134	0	96	60 - 140%	PASS			
Permethrin, trans-	NA	337	0.22	0.5	ng/dry g	358	0	94	60 - 140%	PASS			
Prallethrin	NA	352	0.28	0.5	ng/dry g	500	0	70	60 - 140%	PASS			
Sample ID: 56510-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 22-Jan-19			
Allethrin	NA	520	0.28	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS
Bifenthrin	NA	470	0.22	0.5	ng/dry g	500	0	94	60 - 140%	PASS	1	30	PASS
Cyfluthrin	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS
Cyhalothrin, Total Lambda	NA	493	0.23	0.5	ng/dry g	500	0	99	60 - 140%	PASS	4	30	PASS
Cypermethrin	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	2	30	PASS
Danitol (Fenpropathrin)	NA	572	0.21	0.5	ng/dry g	500	0	114	60 - 140%	PASS	4	30	PASS
Deltamethrin/Tralomethrin	NA	406	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS	5	30	PASS
Esfenvalerate	NA	408	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	6	30	PASS
Fenvalerate	NA	420	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	5	30	PASS
Fluvalinate	NA	403	0.23	0.5	ng/dry g	500	0	81	60 - 140%	PASS	4	30	PASS
Permethrin, cis-	NA	131	0.17	0.5	ng/dry g	134	0	98	60 - 140%	PASS	2	30	PASS
Permethrin, trans-	NA	345	0.22	0.5	ng/dry g	358	0	96	60 - 140%	PASS	2	30	PASS
Prallethrin	NA	370	0.28	0.5	ng/dry g	500	0	74	60 - 140%	PASS	6	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56514-MS1	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D-MRM				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 24-Jan-19			
Allethrin	NA	147	0.28	0.5	ng/dry g	92.6	0	159	60 - 140%	FAIL				M
Bifenthrin	NA	118	0.22	0.5	ng/dry g	92.6	0	127	60 - 140%	PASS				
Cyfluthrin	NA	108	0.25	0.5	ng/dry g	92.6	0	117	60 - 140%	PASS				
Cyhalothrin, Total Lambda	NA	143	0.23	0.5	ng/dry g	92.6	0	154	60 - 140%	FAIL				M
Cypermethrin	NA	108	0.25	0.5	ng/dry g	92.6	0	117	60 - 140%	PASS				
Danitol (Fenpropathrin)	NA	123	0.21	0.5	ng/dry g	92.6	0	133	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	61	0.25	0.5	ng/dry g	92.6	0	66	60 - 140%	PASS				
Esfenvalerate	NA	70.6	0.25	0.5	ng/dry g	92.6	0	76	60 - 140%	PASS				
Fenvalerate	NA	86.5	0.25	0.5	ng/dry g	92.6	0	93	60 - 140%	PASS				
Fluvalinate	NA	70.8	0.23	0.5	ng/dry g	92.6	0	76	60 - 140%	PASS				
Permethrin, cis-	NA	31.8	0.17	0.5	ng/dry g	24.7	0	129	60 - 140%	PASS				
Permethrin, trans-	NA	77.6	0.22	0.5	ng/dry g	66.3	0	117	60 - 140%	PASS				
Prallethrin	NA	4.4	0.28	0.5	ng/dry g	92.6	0	5	60 - 140%	FAIL				M
Sample ID: 56514-MS2	**B18-10023**				**Matrix: Sediment**			**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**			
	Method: EPA 8270D-MRM				Batch ID: O-21008			Prepared: 02-Jan-19			Analyzed: 24-Jan-19			
Allethrin	NA	150	0.28	0.5	ng/dry g	92.6	0	162	60 - 140%	FAIL	2	30	PASS	M
Bifenthrin	NA	123	0.22	0.5	ng/dry g	92.6	0	133	60 - 140%	PASS	5	30	PASS	
Cyfluthrin	NA	137	0.25	0.5	ng/dry g	92.6	0	148	60 - 140%	FAIL	23	30	PASS	Q
Cyhalothrin, Total Lambda	NA	155	0.23	0.5	ng/dry g	92.6	0	167	60 - 140%	FAIL	8	30	PASS	M
Cypermethrin	NA	131	0.25	0.5	ng/dry g	92.6	0	141	60 - 140%	FAIL	19	30	PASS	Q
Danitol (Fenpropathrin)	NA	122	0.21	0.5	ng/dry g	92.6	0	132	60 - 140%	PASS	1	30	PASS	
Deltamethrin/Tralomethrin	NA	69.9	0.25	0.5	ng/dry g	92.6	0	75	60 - 140%	PASS	13	30	PASS	
Esfenvalerate	NA	87.1	0.25	0.5	ng/dry g	92.6	0	94	60 - 140%	PASS	21	30	PASS	
Fenvalerate	NA	108	0.25	0.5	ng/dry g	92.6	0	117	60 - 140%	PASS	23	30	PASS	
Fluvalinate	NA	91.7	0.23	0.5	ng/dry g	92.6	0	99	60 - 140%	PASS	26	30	PASS	
Permethrin, cis-	NA	38.1	0.17	0.5	ng/dry g	24.7	0	154	60 - 140%	FAIL	18	30	PASS	M
Permethrin, trans-	NA	95.1	0.22	0.5	ng/dry g	66.3	0	143	60 - 140%	FAIL	20	30	PASS	Q
Prallethrin	NA	2.42	0.28	0.5	ng/dry g	92.6	0	3	60 - 140%	FAIL	50	30	FAIL	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56514-R2	**B18-10023**				**Matrix: Sediment**		**Sampled: 16-Jul-18**	**12:30**		**Received: 18-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21008		Prepared: 02-Jan-19			Analyzed: 24-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS
Bifenthrin	NA	ND	0.22	0.5	ng/dry g					0	30	PASS
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Cypermethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g					0	30	PASS
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fluvalinate	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g					0	30	PASS
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g					0	30	PASS
Prallethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS

CHAIN OF CUSTODY

1807003-006

CHAIN OF CUSTODY RECORD

STANDARD

Page 2 Of 2

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES										MS/MSD analysis
	7/16/2018	~~1140~~ 1129	sediment	B18-10023	3	X										
	7/16/2018	~~1400~~ 1437	sediment	B18-10030	3	X										
	7/16/2018	~~1000~~ 1024	sediment	B18-10078	3	X										
	7/16/2018	~~0855~~ 0924	sediment	B18-10079	3	X										
	07/16/18	~~0720~~ 0739	sediment	B18-10117	3	X										
	07/17/18	~~0800~~ 0815	sediment	B18-10080	3	X										
	07/17/18	~~0700~~ 0722	sediment	B18-10081	3	X										
	07/17/18	~~0900~~ 0920	sediment	B18-10082	3	X										
	07/17/18	~~1000~~ 1020	sediment	B18-10083	3	X										
	07/17/18	~~1100~~ 1115	sediment	B18-10084	3	X										

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/18/18 0900	[signature] 7/18/18 0900
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

[a] Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

[b] USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

[c] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

[d] Includes cis-chlordane, trans-chlordane, o,p'-DDT, p,p'-DDT, o,p'-DDD, p,p'-DDD, o,p'-DDE, p,p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

[e] Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

[f] Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194,195, 200, 201, 203, 206, and 209.

[g] Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-006

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/18/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 11	☐ BLUE ☑ WET ☐ DRY
Start 6:00 End 10:45 ☐ Other:	☐ Other :	☐ None 5.8 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 05, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-008

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/20/2018. A total of 17 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-008

2018 Regional Harbor Monitoring Program Total Samples: 17

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56582	B18-10022		7/18/2018	8:15	Sediment
56583	B18-10076		7/18/2018	9:20	Sediment
56584	B18-10077		7/18/2018	7:20	Sediment
56585	B18-10112		7/18/2018	10:30	Sediment
56586	B18-10113		7/18/2018	11:30	Sediment
56587	B18-10024		7/19/2018	12:55	Sediment
56588	B18-10029		7/19/2018	11:20	Sediment
56589	B18-10114		7/19/2018	10:30	Sediment
56590	B18-10115		7/19/2018	7:20	Sediment
56591	B18-10116		7/19/2018	8:55	Sediment
56592	B18-20116		7/19/2018	9:45	Sediment
56593	B18-10031		7/20/2018	10:35	Sediment
56594	B18-10032		7/20/2018	14:10	Sediment
56595	B18-10119		7/20/2018	7:40	Sediment
56596	B18-10121		7/20/2018	8:40	Sediment
56597	B18-10123		7/20/2018	9:35	Sediment
56598	B18-10178		7/20/2018	11:35	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**8:15**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	65			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	50			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	72			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	57			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	1.73	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	3.58	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	3.27	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	4.81	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	2.01	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	2.91	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**7:20**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	75			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	79			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	62			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	68			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	58			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	57			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	1.06	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	17-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	54			NA		O-21010	04-Jan-19	30-Jan-19
(PCB112)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	30-Jan-19
(PCB198)	EPA 8270D	% Recovery	54			NA		O-21010	04-Jan-19	30-Jan-19
(TCMX)	EPA 8270D	% Recovery	51			NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	30-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	30-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	30-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	30-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	30-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	53			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	50			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.463	0.193	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	78			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	57			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	0.79	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	3.76	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	6.07	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	6.59	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	6.91	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	2.56	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	6.59	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	62			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	66			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	58			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	2.18	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	1.2	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	1.58	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.543	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	1.22	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	56			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	0.759	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	0.915	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.198	0.179	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	66			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	73			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	93			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**9:45**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	92			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**10:35**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	73			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	55			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	61			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	1.26	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	4.16	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	2.92	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	3.88	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	1.24	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	2.65	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	63			NA		O-21010	04-Jan-19	31-Jan-19
(PCB112)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	31-Jan-19
(PCB198)	EPA 8270D	% Recovery	69			NA		O-21010	04-Jan-19	31-Jan-19
(TCMX)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21010	04-Jan-19	31-Jan-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21010	04-Jan-19	31-Jan-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21010	04-Jan-19	31-Jan-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21010	04-Jan-19	31-Jan-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21010	04-Jan-19	31-Jan-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21010	04-Jan-19	18-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**7:40**	**Received: 20-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	57			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	70			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	52			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.979	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.219	0.179	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**8:40**	**Received: 20-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	50			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	50			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	59			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	0.248	0.2	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	1.58	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.24	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.254	0.187	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.299	0.179	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.229	0.186	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**9:35**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	51			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	56			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	49			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	0.51	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	3.71	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	2	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	1.17	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	1.59	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.57	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	1.11	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	68			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	71			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	54			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	62			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	1.13	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	1.24	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	11.7	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	12.6	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	13.7	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	16.5	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	4.42	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	12.2	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56582-R1	**B18-10022**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**8:15**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	7.85	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.85	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	70.5	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.25	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	292	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56583-R1	**B18-10076**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	7.95	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	12	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	61.2	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.07	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.24	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	602	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56584-R1	**B18-10077**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**7:20**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	15.5	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.74	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	72.1	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.02	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.33	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	324	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56585-R1	**B18-10112**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	6.65	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.41	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	64.5	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.06	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.79	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	404	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56586-R1	**B18-10113**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	50	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	22	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	51.7	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.15	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	618	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56587-R1	**B18-10024**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	13.3	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	15.5	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	56.9	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.07	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.83	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	481	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56588-R1	**B18-10029**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	265	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	11.7	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	52.7	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.13	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	2.5	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	588	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56589-R1	**B18-10114**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	46.5	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	14.3	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	50.9	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.13	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.75	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	567	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56590-R1	**B18-10115**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	11.8	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	22.1	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	55.2	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.01	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	584	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56591-R1	**B18-10116**			**Matrix: Sediment**			**Sampled: 19-Jul-18**	**8:55**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	0.965	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	3.65	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	79.1	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	ND	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	176	0.016	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Sample ID: 56592-R1	**B18-20116**			**Matrix: Sediment**			**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	1.69	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	6.28	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	75.7	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	ND	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.14	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	234	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56593-R1	**B18-10031**			**Matrix: Sediment**			**Sampled: 20-Jul-18**	**10:35**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	122	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.9	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	58.1	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	1.6	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	438	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56594-R1	**B18-10032**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	8.53	0.05	0.1	NA		C-41075	04-Jan-19	04-Jan-19	13:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	12.5	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	72.8	0.1	0.1	NA		C-35149	04-Jan-19	04-Jan-19	8:00
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19050	11-Jan-19	11-Jan-19	13:00
Total Organic Carbon	EPA 9060	% dry weight	0.26	0.01	0.01	NA		O-19050	11-Jan-19	11-Jan-19	13:00
Total Phosphorus	EPA 6020	µg/dry g	263	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56595-R1	**B18-10119**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**7:40**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	180	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.7	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	58.3	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.08	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.12	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	450	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56596-R1	**B18-10121**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	19.4	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.42	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	53.7	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.18	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	611	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56597-R1	**B18-10123**			**Matrix: Sediment**			**Sampled: 20-Jul-18**	**9:35**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	33.4	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.72	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	55.6	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.54	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	524	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56598-R1	**B18-10178**			**Matrix: Sediment**			**Sampled: 20-Jul-18**	**11:35**	**Received: 20-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	1060	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	15.4	0.02	0.03	NA		C-39074	03-Jan-19	03-Jan-19	12:00
Percent Solids	SM 2540 B	%	51.2	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.16	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	3.5	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	446	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**8:15**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	15400	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.107	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	4	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	67.7	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.217	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.165	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	28.6	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	33.2	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	15800	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	12.5	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.154	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 14:39
Nickel (Ni)	EPA 6020	µg/dry g	6.27	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.173	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.229	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	85.6	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	25700	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.239	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.75	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	74.6	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.41	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.377	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	56.7	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	87.7	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	23700	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	46.5	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.358	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 14:41
Nickel (Ni)	EPA 6020	µg/dry g	14.7	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.343	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.636	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	173	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**7:20**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	15000	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.103	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	4.21	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	59	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.237	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.157	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	29.5	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	37.3	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	15300	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.3	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.169	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 14:54
Nickel (Ni)	EPA 6020	µg/dry g	6.17	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.178	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.327	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	88.7	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**10:30**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	19300	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.277	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.67	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	65.1	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.402	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.352	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	36.1	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	66.1	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	20700	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	26.5	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.33	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 14:56
Nickel (Ni)	EPA 6020	µg/dry g	12.9	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.301	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.483	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	117	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**11:30**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	30800	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.284	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.52	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	91	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.525	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.248	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	53	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	109	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	29500	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	35.7	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.369	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 14:58
Nickel (Ni)	EPA 6020	µg/dry g	14.9	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.507	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.602	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	175	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**12:55**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	25300	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.218	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.97	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	83.4	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.454	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.169	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	42	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	77.9	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	24500	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	24.3	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.289	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 15:01
Nickel (Ni)	EPA 6020	µg/dry g	11.5	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.34	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.438	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	134	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56588-R1	**B18-10029**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**11:20**		**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	26900	1	5	NA		E-14069	24-Dec-18	06-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.618	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	7.74	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	89.5	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.514	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.479	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	46.8	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	111	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	26300	1	5	NA		E-14069	24-Dec-18	06-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	54.3	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.333	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19	15:03
Nickel (Ni)	EPA 6020	µg/dry g	15.2	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.482	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.484	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	271	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**10:30**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	33600	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.391	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.84	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	101	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.624	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.243	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	59.9	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	133	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	31500	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	48.8	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.472	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 15:06
Nickel (Ni)	EPA 6020	µg/dry g	15.6	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.46	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.649	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	218	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**7:20**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	29700	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.29	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.61	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	88.4	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.544	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.216	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	50.9	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	122	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	28700	1	5	NA		E-14069	24-Dec-18	06-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	37.7	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.399	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19 15:08
Nickel (Ni)	EPA 6020	µg/dry g	13.9	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.403	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.643	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	183	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56591-R1	**B18-10116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**8:55**		**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	4330	1	5	NA		E-14069	24-Dec-18	06-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.132	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	4.16	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	9.67	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.0925	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.0295	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	8.67	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	10.2	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	8500	1	5	NA		E-14069	24-Dec-18	06-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	6.82	0.0025	0.005	NA		E-14069	24-Dec-18	06-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.0236	0.00001	0.00002	NA		E-15086	11-Jan-19	11-Jan-19	15:11
Nickel (Ni)	EPA 6020	µg/dry g	1.94	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.097	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.0938	0.01	0.02	NA		E-14069	24-Dec-18	06-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	33.9	0.025	0.05	NA		E-14069	24-Dec-18	06-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56592-R1	**B18-20116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**			
Aluminum (Al)	EPA 6020	µg/dry g	5990	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.16	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	5	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	16.7	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.137	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.0352	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	9.66	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	14.6	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	8790	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	8.4	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.0425	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19	16:16
Nickel (Ni)	EPA 6020	µg/dry g	2.58	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.108	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.0808	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	45.8	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**			**Matrix: Sediment**		**Sampled: 20-Jul-18**	**10:35**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	29300	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.415	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.22	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	77	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.554	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.302	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	44.6	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	120	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	27200	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	41.8	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.268	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:28
Nickel (Ni)	EPA 6020	µg/dry g	13.5	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.424	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.472	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	198	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56594-R1	**B18-10032**			**Matrix: Sediment**			**Sampled: 20-Jul-18**	**14:10**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	12800	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.138	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	4.26	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	32.1	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.281	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.136	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	21	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	44.3	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	11700	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	13.9	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.193	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19	16:31
Nickel (Ni)	EPA 6020	µg/dry g	5.2	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.201	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.386	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	87.8	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**			**Matrix: Sediment**		**Sampled: 20-Jul-18**	**7:40**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	28800	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.258	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.92	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	85.7	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.554	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.179	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	44.4	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	110	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	27200	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	30.7	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.304	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:33
Nickel (Ni)	EPA 6020	µg/dry g	12.2	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.374	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.474	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	160	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56596-R1	**B18-10121**			**Matrix: Sediment**			**Sampled: 20-Jul-18**	**8:40**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	35500	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.387	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	10.7	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	106	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.642	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.251	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	60.3	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	149	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	33500	1	5	NA		E-14070	24-Dec-18	07-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	48.5	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.502	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19	16:35
Nickel (Ni)	EPA 6020	µg/dry g	15.8	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.405	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.715	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	210	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**			**Matrix: Sediment**		**Sampled: 20-Jul-18**	**9:35**		**Received: 20-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	32900	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.469	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.65	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	87	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.659	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.24	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	53	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	174	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	31200	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	47.1	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.346	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:38
Nickel (Ni)	EPA 6020	µg/dry g	14.4	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.462	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.616	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	224	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**			**Matrix: Sediment**		**Sampled: 20-Jul-18**	**11:35**	**Received: 20-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	30400	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.867	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.32	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	94.5	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.575	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.763	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	41.3	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	108	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	29900	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	54.6	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.137	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:40
Nickel (Ni)	EPA 6020	µg/dry g	14.7	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.62	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.401	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	294	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**8:15**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.162	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0408	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00601	0.0033	0.0066	NA	J	E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.77	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.544	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.155	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0231	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.54	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**7:20**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.17	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0479	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00681	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.777	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00188	0.0018	0.0036	NA	J	E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.404	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0952	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.016	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.23	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56586-R1	**B18-10113**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.64	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.125	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0232	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.66	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56587-R1	**B18-10024**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.508	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0854	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0173	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.21	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00188	0.0018	0.0036	NA	J	E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0992	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.16	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0245	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.41	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56589-R1	**B18-10114**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.795	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.17	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0252	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.19	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56590-R1	**B18-10115**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.77	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.125	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0182	0.0033	0.0066	NA		E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.6	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-16156	08-Jan-19	09-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0894	0.0062	0.0124	NA		E-16156	08-Jan-19	09-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0148	0.0002	0.0004	NA		E-16156	08-Jan-19	09-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00363	0.0033	0.0066	NA	J	E-16156	08-Jan-19	09-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-16156	08-Jan-19	09-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.238	0.0015	0.003	NA		E-16156	08-Jan-19	09-Jan-19
Sample ID: 56592-R1	**B18-20116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**9:45**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0989	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0219	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00526	0.0033	0.0066	NA	J	E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.371	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**10:35**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.346	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.145	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0212	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.88	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.21	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0407	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00671	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.828	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56595-R1	**B18-10119**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**7:40**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.175	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0923	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0138	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.37	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56596-R1	**B18-10121**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.614	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.139	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0169	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.73	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**9:35**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.652	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.149	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.02	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.84	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56598-R1	**B18-10178**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00245	0.0018	0.0036	NA	J	E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0101	0.0062	0.0124	NA	J	E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.104	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0287	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.84	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**8:15**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**7:20**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	17-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56587-R1	**B18-10024**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56588-R1	**B18-10029**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	0.262	0.25	0.5	NA	J	O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	0.453	0.25	0.5	NA	J	O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	0.468	0.25	0.5	NA	J	O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	0.787	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56589-R1	**B18-10114**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56591-R1	**B18-10116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56592-R1	**B18-20116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**9:45**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56593-R1	**B18-10031**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**10:35**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	0.29	0.25	0.5	NA	J	O-21010	04-Jan-19	18-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	18-Jan-19
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**7:40**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**9:35**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	0.449	0.25	0.5	NA	J	O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	1.5	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	0.789	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	1.11	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**8:15**		**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	15.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	23.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	25.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	15	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	3.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	15.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	16.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	11.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	8.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**7:20**		**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	2.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	13.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	20	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	22.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	16.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	7.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	0.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**10:30**	**Received: 20-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	8.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	14.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	12	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	7.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	5.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	4.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	4.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	10.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	9.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	8.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**12:55**	**Received: 20-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	12.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	12.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	9.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	6.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	10.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	11.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	9.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	8.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	6.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	6.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**		**Matrix: Sediment**			**Sampled: 19-Jul-18 10:30**			**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	9.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	8.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	7.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	6.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	9.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	12.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	12.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	7.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	4.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	22.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	25.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	14.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**9:45**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	1.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	12.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	32	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	25.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	11.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	0.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**10:35**	**Received: 20-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	9.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	10.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	8.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	8.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	6.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	4.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	20.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	27	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	18.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	7.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	2.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	2.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	1.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**7:40**		**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	6.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	9.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	7.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	7.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	6.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	8.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	5.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**9:35**	**Received: 20-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	8.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	6.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	7.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	9.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	10.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	10.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	10	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	9.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	9.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	4.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**8:15**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.207	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.204	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.355	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.299	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.331	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	0.651	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.326	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.123	0.073	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	0.526	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.215	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	0.203	0.118	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.0969	0.085	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	0.333	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.0975	0.056	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.199	0.168	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	4.78	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	2.02	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	1.88	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	7.46	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	6.5	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	10.4	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	7.08	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	15.8	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	11.9	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	5.15	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	4.78	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	8.69	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	4.02	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	6.53	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	11.7	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	3.21	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	10.5	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	9.65	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	13.2	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	1.3	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	7.31	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	2.45	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	11.4	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	2.7	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	2.04	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	2.88	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	1.9	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	6.24	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.81	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	4.17	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**			**Matrix: Sediment**		**Sampled: 18-Jul-18**	**7:20**		**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	0.294	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	0.134	0.023	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.107	0.021	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.269	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.238	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.363	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.254	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	0.326	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	0.742	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	0.392	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.124	0.073	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	0.701	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	0.186	0.074	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.191	0.094	0.2	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.144	0.12	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.142	0.085	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	0.487	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.116	0.056	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.246	0.168	0.25	NA	J	O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	0.954	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	0.967	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	0.829	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	0.535	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	0.591	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	2.08	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	1.35	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	2.28	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	2.15	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	1.63	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	3.41	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	2.12	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.866	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	3.08	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.772	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.736	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	0.429	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	2.02	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.615	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	1.25	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.438	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.387	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB095	EPA 8270D	ng/dry g	0.65	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB099	EPA 8270D	ng/dry g	0.407	0.028	0.2	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.799	0.027	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB110	EPA 8270D	ng/dry g	0.381	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB138	EPA 8270D	ng/dry g	1.83	0.057	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB149	EPA 8270D	ng/dry g	1.11	0.092	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB151	EPA 8270D	ng/dry g	0.538	0.073	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB153	EPA 8270D	ng/dry g	1.74	0.065	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	30-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB174	EPA 8270D	ng/dry g	0.561	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB180	EPA 8270D	ng/dry g	1.27	0.154	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.404	0.056	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB187	EPA 8270D	ng/dry g	0.993	0.168	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB206	EPA 8270D	ng/dry g	0.675	0.155	0.25	NA		O-21010	04-Jan-19	30-Jan-19
PCB209	EPA 8270D	ng/dry g	0.807	0.12	0.25	NA		O-21010	04-Jan-19	30-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	0.318	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	0.251	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.44	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	0.444	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	0.272	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	0.984	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	0.582	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	0.239	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	0.957	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	0.27	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	0.725	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.196	0.056	0.25	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	0.429	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	1.49	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	0.946	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	1.07	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	0.46	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	1.34	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	2.74	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	1.56	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.7	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	0.403	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	3.1	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	2.57	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	5.7	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	1.1	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	2.97	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	1.01	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	4.98	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	1.24	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	1.57	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	0.995	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	2.2	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.785	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	1.94	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**10:30**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	1.13	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	1.23	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	0.948	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	0.574	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	2.04	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	1.68	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.36	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	0.354	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	2.59	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	2.06	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	5.03	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	2.86	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	0.965	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	4.63	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	0.715	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	1	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	1.03	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	0.968	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	2.94	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.845	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	2.01	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	1.32	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**7:20**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	0.577	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	0.386	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	1.21	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	0.832	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	1.01	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	0.368	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	0.885	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	2.25	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	0.756	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	1.44	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.17	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	0.488	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	2.54	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	2.17	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	4.3	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	0.672	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	2.3	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	0.661	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	3.37	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.704	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	0.778	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	0.576	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	1.89	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.536	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	1.24	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.126	0.027	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	0.135	0.065	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.127	0.027	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	0.224	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	0.0987	0.092	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	0.204	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	0.329	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	1.05	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**10:35**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	0.822	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	1.22	0.012	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	1.12	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	0.823	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	0.534	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	0.756	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	2.12	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	1.8	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.23	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	2.44	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	2.07	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	5.17	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	0.815	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	3.21	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	1.12	0.073	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	5.44	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	0.605	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.962	0.094	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	1.2	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	0.922	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	2.79	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.887	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	2.09	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	0.549	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**14:10**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB052	EPA 8270D	ng/dry g	0.164	0.012	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB095	EPA 8270D	ng/dry g	0.238	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB099	EPA 8270D	ng/dry g	0.192	0.028	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.306	0.027	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB110	EPA 8270D	ng/dry g	0.354	0.074	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB118	EPA 8270D	ng/dry g	0.232	0.069	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB138	EPA 8270D	ng/dry g	0.661	0.057	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB149	EPA 8270D	ng/dry g	0.371	0.092	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB151	EPA 8270D	ng/dry g	0.132	0.073	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB153	EPA 8270D	ng/dry g	0.666	0.065	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB158	EPA 8270D	ng/dry g	0.19	0.074	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB168+132	EPA 8270D	ng/dry g	0.121	0.094	0.2	NA	J	O-21010	04-Jan-19	31-Jan-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21010	04-Jan-19	31-Jan-19
PCB170	EPA 8270D	ng/dry g	0.344	0.118	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB187	EPA 8270D	ng/dry g	0.286	0.168	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21010	04-Jan-19	31-Jan-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21010	04-Jan-19	31-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**7:40**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	0.333	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	0.586	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	0.749	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	0.555	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.291	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	0.613	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	1.39	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	1.31	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	2.35	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	1.99	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	1.39	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	3.77	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	0.437	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	2.91	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	1.15	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	4.23	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.698	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	0.983	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	1.13	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.848	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	3.8	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.886	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	2.19	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	0.716	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	0.352	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**8:40**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	0.814	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	0.819	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	0.793	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.617	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	0.611	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	1.84	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	1.33	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	2.58	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	0.319	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	1.94	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	1.57	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	3.65	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	2.27	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	0.764	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	3.49	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	0.282	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.841	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	1.37	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.97	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.886	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	2.21	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.677	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	1.56	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**9:35**	**Received: 20-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	0.591	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.25	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	0.356	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	1.29	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	2.01	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.517	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	3.76	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	4.17	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	2.74	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	4.38	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	8.51	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	2.34	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	8.17	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	9.8	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	12.2	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	1.25	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	6.34	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	1.74	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	9.35	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	1.93	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	1.38	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	2.09	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	2.22	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	1.34	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	1.24	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	3.8	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.01	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	2.18	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	0.917	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	0.534	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	0.853	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	0.297	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	1.63	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.94	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	1.06	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	1.09	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.526	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	2.5	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	1.66	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.85	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	3.13	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	1.68	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	5.36	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	4.14	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	1.38	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	5.22	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	1.15	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	1.72	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.991	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	3.68	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.34	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	2.64	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**8:15**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	76			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	81			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	76			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	108			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.756	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.54	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.295	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.308	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.311	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.92	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**7:20**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	79			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	92			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.472	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	76			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	88			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.05	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	65			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	77			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	5.56	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	67			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	84			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.768	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**11:20**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	75			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	105			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	0.835	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	0.242	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	2.57	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	0.527	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	3.38	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.733	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.323	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.413	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.27	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	73			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	92			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.957	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	1.37	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.32	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.207	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.208	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.226	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	3.17	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	71			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	84			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.4	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	101			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	102			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	91			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	96			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**10:35**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	70			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	98			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	0.364	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	1.44	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	0.472	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	2.42	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.572	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.354	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.724	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.65	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	77			NA		O-21010	04-Jan-19	18-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	85			NA		O-21010	04-Jan-19	18-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	0.691	0.05	0.1	NA		O-21010	04-Jan-19	18-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**7:40**	**Received: 20-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	61			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.52	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	68			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.305	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.16	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.53	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**9:35**	**Received: 20-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	63			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	69			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.982	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.32	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.415	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.246	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.242	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	3.41	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	127			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	1.47	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	0.415	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	6.93	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	1.57	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	7.54	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	1.93	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	0.202	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	1.03	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	1.32	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	0.342	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	35.9	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**8:15**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	88			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	80			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	23			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.729	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.12	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.01	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.932	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.43	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.272	0.078	0.5	NA	J	O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.673	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	1.22	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	25.8	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	13.8	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	17.8	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	12	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	10.8	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	15.7	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.617	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	9.29	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	7.84	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.623	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	15.9	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.939	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	36.4	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.47	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	2.52	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	7.94	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	18	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	93			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	82			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	87			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	48			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.03	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.13	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	9.59	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.53	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.9	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	2.49	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	6.18	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	20.4	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	129	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	188	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	317	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	173	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	177	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	242	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.24	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	105	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	88.5	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	3.6	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	203	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	4.2	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	254	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	5.91	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	37.2	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	53.1	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	188	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**			**Matrix: Sediment**		**Sampled: 18-Jul-18 7:20**			**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	72			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	87			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	99			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	86			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	51			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.83	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.11	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.25	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.965	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.31	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.738	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	1.39	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	3.83	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	57.1	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	43.3	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	41.2	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	33.1	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	28.4	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	38.5	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.455	0.092	0.5	NA	J	O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	29.4	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	16.1	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.05	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	38.5	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.45	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	68.4	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.9	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	7.44	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	14.1	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	48.2	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**			**Matrix: Sediment**		**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	80			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	82			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	78			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	49			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.89	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.08	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	10.8	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.34	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.73	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	3.27	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	10.7	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	27.9	0.046	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	146	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	255	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	386	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	177	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	148	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	295	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.44	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	167	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	82	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	3.62	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	142	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	6.03	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	241	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	7.49	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	34.7	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	55	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	174	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**			**Matrix: Sediment**		**Sampled: 18-Jul-18 11:30**			**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	52			NA		O-21010	04-Jan-19	30-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	60			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	64			NA		O-21010	04-Jan-19	30-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	62			NA		O-21010	04-Jan-19	30-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	40			NA		O-21010	04-Jan-19	30-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	4.55	0.059	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.05	0.084	0.5	NA		O-21010	04-Jan-19	30-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	37.9	0.076	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	13.1	0.065	0.5	NA		O-21010	04-Jan-19	30-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	54.7	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	7.38	0.078	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	8.16	0.058	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Anthracene	EPA 8270D	ng/dry g	2100	0.046	0.5	NA		O-21010	04-Jan-19	11-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	193	0.107	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	203	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	272	0.063	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	169	0.098	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	124	0.093	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	229	0.111	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Biphenyl	EPA 8270D	ng/dry g	10.4	0.092	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Chrysene	EPA 8270D	ng/dry g	193	0.067	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	76.6	0.106	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	15.3	0.2	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	249	0.035	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	227	0.068	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	231	0.087	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Naphthalene	EPA 8270D	ng/dry g	48.8	0.187	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Perylene	EPA 8270D	ng/dry g	39.3	0.114	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	407	0.074	0.5	NA		O-21010	04-Jan-19	30-Jan-19
Pyrene	EPA 8270D	ng/dry g	210	0.048	0.5	NA		O-21010	04-Jan-19	30-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**12:55**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	54			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	61			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	80			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	68			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	42			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.32	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.44	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	11.1	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.22	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.22	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.636	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	11	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	11	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	186	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	215	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	185	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	162	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	158	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	157	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.75	0.092	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	129	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	62.4	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.71	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	267	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.93	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	231	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	9.1	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	40.8	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	37.8	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	404	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**			**Matrix: Sediment**		**Sampled: 19-Jul-18 11:20**			**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	76			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	90			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	82			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	44			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	4.93	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.2	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	15.3	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	3.43	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	6.61	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	5.73	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	12.9	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	23.8	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	167	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	285	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	372	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	284	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	300	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	278	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	3	0.092	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	123	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	102	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	7.8	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	326	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	7.05	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	328	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	11.8	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	65.3	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	89.1	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	464	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**10:30**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	66			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	73			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	74			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	48			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	4.14	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	4.58	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	24.5	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	4.11	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	8.62	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	4.32	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	21.4	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	32.7	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	237	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	418	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	468	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	345	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	340	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	368	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	2.65	0.092	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	192	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	135	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	6.29	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	357	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	6.44	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	397	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	12.7	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	75.6	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	95.2	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	541	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**			**Matrix: Sediment**		**Sampled: 19-Jul-18**		**7:20**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	59			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	67			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	78			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	47			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.9	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.01	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	14.4	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	3.22	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	7.14	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	2.57	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	17.7	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	31.7	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	205	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	321	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	389	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	258	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	232	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	295	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	2.48	0.092	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	181	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	102	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	5.24	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	351	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	5.3	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	316	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	10.7	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	61.6	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	70.6	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	435	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	91			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	119			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	92			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	56			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.27	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.814	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.51	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.577	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.64	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.233	0.058	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.762	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	21.8	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	8.1	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	11.8	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	7.06	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	4.66	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	8.53	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.291	0.092	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	7.27	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.79	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.324	0.2	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	10.4	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.643	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	19.4	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	2.17	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	1.64	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	4.51	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	9.84	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**			**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	74			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	82			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	100			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	86			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	51			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.38	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.836	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.32	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.624	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.7	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.157	0.078	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	0.331	0.058	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	0.767	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	6.02	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	3.69	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	5.47	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	3.58	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	3.77	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	4.3	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.275	0.092	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	2.52	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.2	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.357	0.2	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	4.96	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.605	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	14.2	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	1.91	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	0.766	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	4.29	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	5.13	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**		**10:35**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	65			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	81			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	68			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	77			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	45			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.74	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.81	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	8.7	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.92	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.12	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	2.02	0.078	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	7.24	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	16.9	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	121	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	211	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	337	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	207	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	190	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	246	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	1.18	0.092	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	86.8	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	85.3	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	3.4	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	180	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.93	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	263	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	5.82	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	41	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	41.9	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	209	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**14:10**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	71			NA		O-21010	04-Jan-19	31-Jan-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	76			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Chrysene)	EPA 8270D	% Recovery	79			NA		O-21010	04-Jan-19	31-Jan-19
(d12-Perylene)	EPA 8270D	% Recovery	83			NA		O-21010	04-Jan-19	31-Jan-19
(d8-Naphthalene)	EPA 8270D	% Recovery	55			NA		O-21010	04-Jan-19	31-Jan-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.889	0.059	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.04	0.084	0.5	NA		O-21010	04-Jan-19	31-Jan-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.49	0.076	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.839	0.065	0.5	NA		O-21010	04-Jan-19	31-Jan-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.99	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Acenaphthene	EPA 8270D	ng/dry g	0.275	0.078	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Acenaphthylene	EPA 8270D	ng/dry g	1.18	0.058	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Anthracene	EPA 8270D	ng/dry g	2.21	0.046	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benz[a]anthracene	EPA 8270D	ng/dry g	28.3	0.107	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	20.9	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	25.3	0.063	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	17.8	0.098	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	20.1	0.093	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	19.9	0.111	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Biphenyl	EPA 8270D	ng/dry g	0.453	0.092	0.5	NA	J	O-21010	04-Jan-19	31-Jan-19
Chrysene	EPA 8270D	ng/dry g	11.6	0.067	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	13.1	0.106	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.807	0.2	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Fluoranthene	EPA 8270D	ng/dry g	18.9	0.035	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.805	0.068	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	53.8	0.087	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Naphthalene	EPA 8270D	ng/dry g	3.08	0.187	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Perylene	EPA 8270D	ng/dry g	3.86	0.114	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Phenanthrene	EPA 8270D	ng/dry g	10.2	0.074	0.5	NA		O-21010	04-Jan-19	31-Jan-19
Pyrene	EPA 8270D	ng/dry g	22.5	0.048	0.5	NA		O-21010	04-Jan-19	31-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**			**Matrix: Sediment**		**Sampled: 20-Jul-18**	**7:40**		**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	79			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	123			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	72			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	40			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.21	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.15	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	9.42	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.57	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.52	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	1.02	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	9.94	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	47.8	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	318	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	227	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	291	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	207	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	143	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	235	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.711	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	326	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	93.6	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.92	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	134	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	4.85	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	287	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	3.47	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	48.6	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	36.4	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	182	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**8:40**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	69			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	103			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	66			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	23			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.18	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.11	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	16.4	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.46	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.57	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.652	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	6.78	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	22.1	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	236	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	187	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	230	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	161	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	138	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	191	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.786	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	155	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	69.6	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.78	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	189	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.01	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	287	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	3.17	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	32.4	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	38.1	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	277	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**9:35**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	82			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	107			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	72			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	39			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.74	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.38	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	6.8	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.64	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.17	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.952	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	5.85	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	14.6	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	128	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	146	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	256	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	150	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	129	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	189	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.721	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	94.9	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	74.6	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.99	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	118	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.25	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	275	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	4.17	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	27.2	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	26.1	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	136	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**			**Matrix: Sediment**		**Sampled: 20-Jul-18**		**11:35**	**Received: 20-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	82			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	102			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	84			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	86			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	52			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	5.67	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.2	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	25.7	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	5.17	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	7.38	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	7.76	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	8.7	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	62.9	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	243	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	227	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	379	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	299	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	254	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	280	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	2.51	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	182	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	110	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	13.9	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	610	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	15.6	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	367	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	10.8	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	64.6	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	113	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	593	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56582-R1	**B18-10022**		**Matrix: Sediment**			**Sampled: 18-Jul-18**	**8:15**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56583-R1	**B18-10076**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**9:20**	**Received: 20-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	6.78	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.21	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	3.81	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	11.3	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56584-R1	**B18-10077**		**Matrix: Sediment**			**Sampled: 18-Jul-18 7:20**		**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56585-R1	**B18-10112**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.2	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56586-R1	**B18-10113**		**Matrix: Sediment**			**Sampled: 18-Jul-18**		**11:30**	**Received: 20-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.29	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56587-R1	**B18-10024**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**12:55**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.253	0.22	0.5	NA	J	O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56588-R1	**B18-10029**		**Matrix: Sediment**			**Sampled: 19-Jul-18 11:20**		**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	22.6	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	11.5	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	23.3	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56589-R1	**B18-10114**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**10:30**	**Received: 20-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	4.11	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	3.74	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	8.21	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56590-R1	**B18-10115**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**7:20**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.45	0.22	0.5	NA	J	O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56591-R1	**B18-10116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**		**8:55**	**Received: 20-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56592-R1	**B18-20116**		**Matrix: Sediment**			**Sampled: 19-Jul-18**	**9:45**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56593-R1	**B18-10031**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**10:35**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	7.35	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	3.07	0.21	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	4.56	0.17	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	9.24	0.22	0.5	NA		O-21010	04-Jan-19	22-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	22-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56594-R1	**B18-10032**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**14:10**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21010	04-Jan-19	23-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21010	04-Jan-19	23-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56595-R1	**B18-10119**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**7:40**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.742	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.826	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56596-R1	**B18-10121**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**8:40**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.785	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.88	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56597-R1	**B18-10123**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**9:35**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	4.51	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.32	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	3.53	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	5.59	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56598-R1	**B18-10178**		**Matrix: Sediment**			**Sampled: 20-Jul-18**	**11:35**	**Received: 20-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	63	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	4.02	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	1.91	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	21.2	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	37.1	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 04-Jan-19**			**Analyzed: 04-Jan-19**		
56578-B1	QAQC Procedural Blank	C-41075	ND	0.05	0.1	mg/dry kg									
56578-BS1	QAQC Procedural Blank	C-41075	19.1	0.05	0.1	mg/dry kg	20.1	0	95	80 - 120%	PASS				
56578-BS2	QAQC Procedural Blank	C-41075	19.1	0.05	0.1	mg/dry kg	20.1	0	95	80 - 120%	PASS	0	25	PASS	
56589-MS1	B18-10114	C-41075	39.7	0.05	0.1	mg/dry kg	28.1	43.5	-14	80 - 120%	FAIL				M
56589-MS2	B18-10114	C-41075	42	0.05	0.1	mg/dry kg	27.9	43.5	-5	80 - 120%	FAIL	95	25	FAIL	M
56589-R2	B18-10114	C-41075	40.6	0.05	0.1	mg/dry kg						14	25	PASS	
20904-B1	QAQC Procedural Blank	C-41079	ND	0.05	0.1	mg/dry kg									
20904-BS1	QAQC Procedural Blank	C-41079	22.5	0.05	0.1	mg/dry kg	24.6	0	91	80 - 120%	PASS				
20904-BS2	QAQC Procedural Blank	C-41079	22.2	0.05	0.1	mg/dry kg	24.6	0	90	80 - 120%	PASS	1	25	PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**		
56578-B1	QAQC Procedural Blank	C-39074	ND	0.02	0.03	mg/dry kg									
56578-BS1	QAQC Procedural Blank	C-39074	1.61	0.02	0.03	mg/dry kg	1.58	0	102	80 - 120%	PASS				
56578-BS2	QAQC Procedural Blank	C-39074	1.7	0.02	0.03	mg/dry kg	1.58	0	108	80 - 120%	PASS	6	25	PASS	
56583-MS1	B18-10076	C-39074	18.7	0.02	0.03	mg/dry kg	8.01	12	84	80 - 120%	PASS				
56583-MS2	B18-10076	C-39074	19	0.02	0.03	mg/dry kg	8.02	12	87	80 - 120%	PASS	4	25	PASS	
56583-R2	B18-10076	C-39074	11.9	0.02	0.03	mg/dry kg						1	25	PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 04-Jan-19**			**Analyzed: 04-Jan-19**		
56578-B1	QAQC Procedural Blank	C-35149	ND	0.1	0.1	%									
20904-B1	QAQC Procedural Blank	C-35150	ND	0.1	0.1	%									
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 11-Jan-19**			**Analyzed: 11-Jan-19**		
56578-B1	QAQC Procedural Blank	O-19050	ND	0.01	0.01	% dry weight									
56583-R2	B18-10076	O-19050	0.07	0.01	0.01	% dry weight						0	25	PASS	
20904-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 11-Jan-19**			**Analyzed: 11-Jan-19**		
56578-B1	QAQC Procedural Blank	O-19050	ND	0.01	0.01	% dry weight									
56580-CRM1	QAQC CRM - SRM 1944	O-19050	4.1	0.01	0.01	% dry weight	4.4		93	80 - 120%	PASS				
56583-R2	B18-10076	O-19050	1.23	0.01	0.01	% dry weight						1	20	PASS	
20904-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
20905-CRM1	QAQC CRM - SRM 1944	O-19052	4.9	0.01	0.01	% dry weight	4.4		111	80 - 120% PASS			
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**			**Prepared: 24-Dec-18**		**Analyzed: 06-Feb-19**		
56578-B1	QAQC Procedural Blank	E-14069	ND	0.016	0.05	µg/dry g							
56578-BS1	QAQC Procedural Blank	E-14069	5	0.016	0.05	µg/dry g	5	0	100	80 - 120% PASS			
56578-BS2	QAQC Procedural Blank	E-14069	4.98	0.016	0.05	µg/dry g	5	0	100	80 - 120% PASS	0	25 PASS	
56583-MS1	B18-10076	E-14069	721	0.016	0.05	µg/dry g	145	587	92	80 - 120% PASS			
56583-MS2	B18-10076	E-14069	716	0.016	0.05	µg/dry g	145	587	89	80 - 120% PASS	3	25 PASS	
56583-R2	B18-10076	E-14069	571	0.016	0.05	µg/dry g					5	25 PASS	
20904-B1	QAQC Procedural Blank	E-14070	ND	0.016	0.05	µg/dry g							
20904-BS1	QAQC Procedural Blank	E-14070	47.7	0.016	0.05	µg/dry g	50	0	95	80 - 120% PASS			
20904-BS2	QAQC Procedural Blank	E-14070	47.7	0.016	0.05	µg/dry g	50	0	95	80 - 120% PASS	0	25 PASS	
56592-MS1	B18-20116	E-14070	1670	0.016	0.05	µg/dry g	1350	236	106	80 - 120% PASS			
56592-MS2	B18-20116	E-14070	1660	0.016	0.05	µg/dry g	1350	236	105	80 - 120% PASS	1	25 PASS	
56592-R2	B18-20116	E-14070	237	0.016	0.05	µg/dry g					1	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19	
(PCB030)	NA	75			% Recovery	100	75	50 - 123%	PASS			
(PCB112)	NA	79			% Recovery	100	79	53 - 129%	PASS			
(PCB198)	NA	95			% Recovery	100	95	51 - 131%	PASS			
(TCMX)	NA	67			% Recovery	100	67	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(PCB030)	NA	76			% Recovery	100	0	76	50 - 123% PASS			
(PCB112)	NA	79			% Recovery	100	0	79	53 - 129% PASS			
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131% PASS			
(TCMX)	NA	67			% Recovery	100	0	67	45 - 117% PASS			
2,4'-DDD	NA	427	0.267	0.5	ng/dry g	500	0	85	60 - 140% PASS			
2,4'-DDE	NA	408	0.2	0.5	ng/dry g	500	0	82	60 - 140% PASS			
2,4'-DDT	NA	424	0.194	0.5	ng/dry g	500	0	85	60 - 140% PASS			
4,4'-DDD	NA	464	0.198	0.5	ng/dry g	500	0	93	60 - 140% PASS			
4,4'-DDE	NA	424	0.193	0.5	ng/dry g	500	0	85	60 - 140% PASS			
4,4'-DDMU	NA	458	0.223	0.5	ng/dry g	500	0	92	60 - 140% PASS			
4,4'-DDT	NA	580	0.128	0.5	ng/dry g	500	0	116	60 - 140% PASS			
Aldrin	NA	481	0.25	0.5	ng/dry g	500	0	96	60 - 140% PASS			
BHC-alpha	NA	378	0.25	0.5	ng/dry g	500	0	76	60 - 140% PASS			
BHC-beta	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
BHC-delta	NA	387	0.25	0.5	ng/dry g	500	0	77	60 - 140% PASS			
BHC-gamma	NA	380	0.25	0.5	ng/dry g	500	0	76	60 - 140% PASS			
Chlordane-alpha	NA	373	0.187	0.5	ng/dry g	500	0	75	60 - 140% PASS			
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140% PASS			
cis-Nonachlor	NA	377	0.192	0.5	ng/dry g	500	0	75	60 - 140% PASS			
DCPA (Dacthal)	NA	498	5	10	ng/dry g	500	0	100	60 - 140% PASS			
Dicofol	NA	530	2.5	5	ng/dry g	500	0	106	60 - 140% PASS			
Dieldrin	NA	404	0.1	0.2	ng/dry g	500	0	81	60 - 140% PASS			
Endosulfan Sulfate	NA	358	0.25	0.5	ng/dry g	500	0	72	60 - 140% PASS			
Endosulfan-I	NA	14.5	0.25	0.5	ng/dry g	500	0	3	60 - 140% FAIL			Q
Endosulfan-II	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140% FAIL			Q
Endrin	NA	464	0.25	0.5	ng/dry g	500	0	93	60 - 140% PASS			
Endrin Aldehyde	NA	51	0.25	0.5	ng/dry g	500	0	10	60 - 140% FAIL			Q
Endrin Ketone	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140% PASS			
Heptachlor	NA	419	0.25	0.5	ng/dry g	500	0	84	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	511	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS			
Hexachlorobenzene	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS			
Methoxychlor	NA	712	0.25	0.5	ng/dry g	500	0	142	60 - 140%	FAIL			Q
Mirex	NA	423	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Oxychlordane	NA	403	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS			
Perthane	NA	655	5	10	ng/dry g	500	0	131	60 - 140%	PASS			
trans-Nonachlor	NA	377	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
Toxaphene	NA	5450	10	20	ng/dry g	5000	0	109	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19			
(PCB030)	NA	76			% Recovery	100	0	76	50 - 123%	PASS	0	30	PASS	
(PCB112)	NA	79			% Recovery	100	0	79	53 - 129%	PASS	0	30	PASS	
(PCB198)	NA	97			% Recovery	100	0	97	51 - 131%	PASS	2	30	PASS	
(TCMX)	NA	64			% Recovery	100	0	64	45 - 117%	PASS	5	30	PASS	
2,4'-DDD	NA	438	0.267	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
2,4'-DDE	NA	411	0.2	0.5	ng/dry g	500	0	82	60 - 140%	PASS	0	30	PASS	
2,4'-DDT	NA	451	0.194	0.5	ng/dry g	500	0	90	60 - 140%	PASS	6	30	PASS	
4,4'-DDD	NA	478	0.198	0.5	ng/dry g	500	0	96	60 - 140%	PASS	3	30	PASS	
4,4'-DDE	NA	429	0.193	0.5	ng/dry g	500	0	86	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	463	0.223	0.5	ng/dry g	500	0	93	60 - 140%	PASS	1	30	PASS	
4,4'-DDT	NA	599	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	3	30	PASS	
Aldrin	NA	496	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	3	30	PASS	
BHC-alpha	NA	381	0.25	0.5	ng/dry g	500	0	76	60 - 140%	PASS	0	30	PASS	
BHC-beta	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
BHC-delta	NA	396	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	3	30	PASS	
BHC-gamma	NA	385	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	382	0.187	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
Chlordane-gamma	NA	451	0.179	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
cis-Nonachlor	NA	384	0.192	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
DCPA (Dacthal)	NA	512	5	10	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	506	2.5	5	ng/dry g	500	0	101	60 - 140%	PASS	5	30	PASS	
Dieldrin	NA	401	0.1	0.2	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
Endosulfan Sulfate	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	15.6	0.25	0.5	ng/dry g	500	0	3	60 - 140%	FAIL	0	30	PASS	Q
Endosulfan-II	NA	110	0.25	0.5	ng/dry g	500	0	22	60 - 140%	FAIL	5	30	PASS	Q
Endrin	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	11	30	PASS	
Endrin Aldehyde	NA	144	0.25	0.5	ng/dry g	500	0	29	60 - 140%	FAIL	97	30	FAIL	Q
Endrin Ketone	NA	431	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	1	30	PASS	
Heptachlor	NA	447	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	494	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	3	30	PASS	
Hexachlorobenzene	NA	360	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Methoxychlor	NA	720	0.25	0.5	ng/dry g	500	0	144	60 - 140%	FAIL	1	30	PASS	Q
Mirex	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Oxychlordane	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS	2	30	PASS	
Perthane	NA	673	5	10	ng/dry g	500	0	135	60 - 140%	PASS	3	30	PASS	
trans-Nonachlor	NA	390	0.186	0.5	ng/dry g	500	0	78	60 - 140%	PASS	4	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Toxaphene	NA	5370	10	20	ng/dry g	5000	0	107	60 - 140%	PASS	2	30	PASS	
Sample ID: 20905-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(PCB030)	NA	89			% Recovery	100		89	33 - 149%	PASS				
(PCB112)	NA	96			% Recovery	100		96	49 - 120%	PASS				
(PCB198)	NA	55			% Recovery	100		55	35 - 123%	PASS				
(TCMX)	NA	88			% Recovery	100		88	37 - 138%	PASS				
2,4'-DDD	NA	49.2	0.267	0.5	ng/dry g	38		129	60 - 140%	PASS				
2,4'-DDE	NA	14.2	0.2	0.5	ng/dry g	19		75	60 - 140%	PASS				
4,4'-DDD	NA	111	0.198	0.5	ng/dry g	108		103	60 - 140%	PASS				
4,4'-DDE	NA	107	0.193	0.5	ng/dry g	86		124	60 - 140%	PASS				
4,4'-DDT	NA	142	0.128	0.5	ng/dry g	170		84	60 - 140%	PASS				
Chlordane-alpha	NA	19.5	0.187	0.5	ng/dry g	16.5		118	60 - 140%	PASS				
Chlordane-gamma	NA	26.5	0.179	0.5	ng/dry g	19		139	60 - 140%	PASS				
cis-Nonachlor	NA	4	0.192	0.5	ng/dry g	3.7		108	60 - 140%	PASS				
Hexachlorobenzene	NA	5.57	0.25	0.5	ng/dry g	6		93	60 - 140%	PASS				
trans-Nonachlor	NA	11	0.186	0.5	ng/dry g	8.2		134	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(PCB030)	NA	68			% Recovery	100	68	50 - 123%	PASS			
(PCB112)	NA	70			% Recovery	100	70	53 - 129%	PASS			
(PCB198)	NA	89			% Recovery	100	89	51 - 131%	PASS			
(TCMX)	NA	61			% Recovery	100	61	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21012			Prepared: 08-Jan-19		Analyzed: 19-Jan-19		
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(PCB030)	NA	78			% Recovery	100	0	78	50 - 123% PASS			
(PCB112)	NA	72			% Recovery	100	0	72	53 - 129% PASS			
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131% PASS			
(TCMX)	NA	70			% Recovery	100	0	70	45 - 117% PASS			
2,4'-DDD	NA	415	0.267	0.5	ng/dry g	500	0	83	60 - 140% PASS			
2,4'-DDE	NA	388	0.2	0.5	ng/dry g	500	0	78	60 - 140% PASS			
2,4'-DDT	NA	402	0.194	0.5	ng/dry g	500	0	80	60 - 140% PASS			
4,4'-DDD	NA	569	0.198	0.5	ng/dry g	500	0	114	60 - 140% PASS			
4,4'-DDE	NA	403	0.193	0.5	ng/dry g	500	0	81	60 - 140% PASS			
4,4'-DDMU	NA	450	0.223	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDT	NA	585	0.128	0.5	ng/dry g	500	0	117	60 - 140% PASS			
Aldrin	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140% PASS			
BHC-alpha	NA	403	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS			
BHC-beta	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
BHC-gamma	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Chlordane-alpha	NA	357	0.187	0.5	ng/dry g	500	0	71	60 - 140% PASS			
Chlordane-gamma	NA	428	0.179	0.5	ng/dry g	500	0	86	60 - 140% PASS			
cis-Nonachlor	NA	355	0.192	0.5	ng/dry g	500	0	71	60 - 140% PASS			
DCPA (Dacthal)	NA	502	5	10	ng/dry g	500	0	100	60 - 140% PASS			
Dicofol	NA	433	2.5	5	ng/dry g	500	0	87	60 - 140% PASS			
Dieldrin	NA	371	0.1	0.2	ng/dry g	500	0	74	60 - 140% PASS			
Endosulfan Sulfate	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140% PASS			
Endosulfan-I	NA	9.94	0.25	0.5	ng/dry g	500	0	2	60 - 140% FAIL			Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140% FAIL			Q
Endrin	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140% PASS			
Endrin Aldehyde	NA	49.6	0.25	0.5	ng/dry g	500	0	10	60 - 140% FAIL			Q
Endrin Ketone	NA	529	0.25	0.5	ng/dry g	500	0	106	60 - 140% PASS			
Heptachlor	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Hexachlorobenzene	NA	377	0.25	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
Methoxychlor	NA	765	0.25	0.5	ng/dry g	500	0	153	60 - 140%	FAIL			Q
Mirex	NA	427	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Oxychlordane	NA	421	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	679	5	10	ng/dry g	500	0	136	60 - 140%	PASS			
trans-Nonachlor	NA	358	0.186	0.5	ng/dry g	500	0	72	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19		
Toxaphene	NA	5680	10	20	ng/dry g	5000	0	114	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19			
(PCB030)	NA	74			% Recovery	100	0	74	50 - 123%	PASS	5	30	PASS	
(PCB112)	NA	66			% Recovery	100	0	66	53 - 129%	PASS	9	30	PASS	
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131%	PASS	0	30	PASS	
(TCMX)	NA	65			% Recovery	100	0	65	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	396	0.267	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
2,4'-DDE	NA	368	0.2	0.5	ng/dry g	500	0	74	60 - 140%	PASS	5	30	PASS	
2,4'-DDT	NA	392	0.194	0.5	ng/dry g	500	0	78	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	551	0.198	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	
4,4'-DDE	NA	380	0.193	0.5	ng/dry g	500	0	76	60 - 140%	PASS	6	30	PASS	
4,4'-DDMU	NA	426	0.223	0.5	ng/dry g	500	0	85	60 - 140%	PASS	6	30	PASS	
4,4'-DDT	NA	592	0.128	0.5	ng/dry g	500	0	118	60 - 140%	PASS	1	30	PASS	
Aldrin	NA	500	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	4	30	PASS	
BHC-alpha	NA	395	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	2	30	PASS	
BHC-beta	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	397	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
BHC-gamma	NA	408	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	340	0.187	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
Chlordane-gamma	NA	411	0.179	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
cis-Nonachlor	NA	341	0.192	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
DCPA (Dacthal)	NA	482	5	10	ng/dry g	500	0	96	60 - 140%	PASS	4	30	PASS	
Dicofol	NA	446	2.5	5	ng/dry g	500	0	89	60 - 140%	PASS	2	30	PASS	
Dieldrin	NA	361	0.1	0.2	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan Sulfate	NA	447	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	1	30	PASS	
Endosulfan-I	NA	9.69	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	0	30	PASS	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
Endrin Aldehyde	NA	150	0.25	0.5	ng/dry g	500	0	30	60 - 140%	FAIL	100	30	FAIL	Q
Endrin Ketone	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	457	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	460	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	14	30	PASS	
Hexachlorobenzene	NA	360	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	796	0.25	0.5	ng/dry g	500	0	159	60 - 140%	FAIL	4	30	PASS	Q
Mirex	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Oxychlordane	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
Perthane	NA	673	5	10	ng/dry g	500	0	135	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	349	0.186	0.5	ng/dry g	500	0	70	60 - 140%	PASS	3	30	PASS	
		Method: EPA 8270D-NCI			Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19		
Toxaphene	NA	5650	10	20	ng/dry g	5000	0	113	60 - 140%	PASS	1	30	PASS	
Sample ID: 56580-CRM1		**QAQC CRM - SRM 1944**			**Matrix: Sediment**			**Sampled:**				**Received:**		
		Method: EPA 8270D			Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
(PCB030)	NA	82			% Recovery	100		82	33 - 149%	PASS				
(PCB112)	NA	82			% Recovery	100		82	49 - 120%	PASS				
(PCB198)	NA	58			% Recovery	100		58	35 - 123%	PASS				
(TCMX)	NA	81			% Recovery	100		81	37 - 138%	PASS				
2,4'-DDD	NA	35.6	0.267	0.5	ng/dry g	38		94	60 - 140%	PASS				
2,4'-DDE	NA	21.2	0.2	0.5	ng/dry g	19		112	60 - 140%	PASS				
4,4'-DDD	NA	132	0.198	0.5	ng/dry g	108		122	60 - 140%	PASS				
4,4'-DDE	NA	97.6	0.193	0.5	ng/dry g	86		113	60 - 140%	PASS				
4,4'-DDT	NA	167	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	17.7	0.187	0.5	ng/dry g	16.5		107	60 - 140%	PASS				
Chlordane-gamma	NA	25.9	0.179	0.5	ng/dry g	19		136	60 - 140%	PASS				
cis-Nonachlor	NA	3.65	0.192	0.5	ng/dry g	3.7		99	60 - 140%	PASS				
Hexachlorobenzene	NA	5.31	0.25	0.5	ng/dry g	6		88	60 - 140%	PASS				
trans-Nonachlor	NA	10.1	0.186	0.5	ng/dry g	8.2		123	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(PCB030)	NA	79			% Recovery	100	0	79	24 - 118% PASS			
(PCB112)	NA	89			% Recovery	100	0	89	34 - 121% PASS			
(PCB198)	NA	55			% Recovery	100	0	55	37 - 125% PASS			
(TCMX)	NA	74			% Recovery	100	0	74	22 - 117% PASS			
2,4'-DDD	NA	103	0.267	0.5	ng/dry g	104	0	99	60 - 140% PASS			
2,4'-DDE	NA	94.1	0.2	0.5	ng/dry g	104	0	90	60 - 140% PASS			
2,4'-DDT	NA	97.8	0.194	0.5	ng/dry g	104	0	94	60 - 140% PASS			
4,4'-DDD	NA	109	0.198	0.5	ng/dry g	104	1.87	103	60 - 140% PASS			
4,4'-DDE	NA	100	0.193	0.5	ng/dry g	104	3.68	93	60 - 140% PASS			
4,4'-DDMU	NA	115	0.223	0.5	ng/dry g	104	0	111	60 - 140% PASS			
4,4'-DDT	NA	127	0.128	0.5	ng/dry g	104	0	122	60 - 140% PASS			
Aldrin	NA	91.5	0.25	0.5	ng/dry g	104	0	88	60 - 140% PASS			
BHC-alpha	NA	109	0.25	0.5	ng/dry g	104	0	105	60 - 140% PASS			
BHC-beta	NA	78	0.25	0.5	ng/dry g	104	0	75	60 - 140% PASS			
BHC-delta	NA	74.4	0.25	0.5	ng/dry g	104	0	72	60 - 140% PASS			
BHC-gamma	NA	71.3	0.25	0.5	ng/dry g	104	0	69	60 - 140% PASS			
Chlordane-alpha	NA	95.4	0.187	0.5	ng/dry g	104	3.39	88	60 - 140% PASS			
Chlordane-gamma	NA	116	0.179	0.5	ng/dry g	104	5.32	106	60 - 140% PASS			
cis-Nonachlor	NA	82.8	0.192	0.5	ng/dry g	104	2.01	78	60 - 140% PASS			
DCPA (Dacthal)	NA	107	5	10	ng/dry g	104	0	103	60 - 140% PASS			
Dicofol	NA	82.7	2.5	5	ng/dry g	104	0	80	60 - 140% PASS			
Dieldrin	NA	75.2	0.1	0.2	ng/dry g	104	0	72	60 - 140% PASS			
Endosulfan Sulfate	NA	70.2	0.25	0.5	ng/dry g	104	0	67	60 - 140% PASS			
Endosulfan-I	NA	20.1	0.25	0.5	ng/dry g	104	0	19	60 - 140% FAIL			M
Endosulfan-II	NA	24.1	0.25	0.5	ng/dry g	104	0	23	60 - 140% FAIL			M
Endrin	NA	97.3	0.25	0.5	ng/dry g	104	0	94	60 - 140% PASS			
Endrin Aldehyde	NA	11.7	0.25	0.5	ng/dry g	104	0	11	60 - 140% FAIL			Q
Endrin Ketone	NA	65.4	0.25	0.5	ng/dry g	104	0	63	60 - 140% PASS			
Heptachlor	NA	91.2	0.25	0.5	ng/dry g	104	0	88	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	115	0.25	0.5	ng/dry g	104	0	111	60 - 140%	PASS			
Hexachlorobenzene	NA	82.6	0.25	0.5	ng/dry g	104	0	79	60 - 140%	PASS			
Methoxychlor	NA	163	0.25	0.5	ng/dry g	104	0	157	60 - 140%	FAIL			M
Mirex	NA	64.2	0.25	0.5	ng/dry g	104	0	62	60 - 140%	PASS			
Oxychlordane	NA	71.3	0.25	0.5	ng/dry g	104	0	69	60 - 140%	PASS			
Perthane	NA	160	5	10	ng/dry g	104	0	154	60 - 140%	FAIL			M
trans-Nonachlor	NA	97.8	0.186	0.5	ng/dry g	104	3.09	91	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Toxaphene	NA	1010	10	20	ng/dry g	1040	0	97	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 29-Jan-19			
(PCB030)	NA	79			% Recovery	100	0	79	24 - 118%	PASS	0	30	PASS	
(PCB112)	NA	86			% Recovery	100	0	86	34 - 121%	PASS	3	30	PASS	
(PCB198)	NA	59			% Recovery	100	0	59	37 - 125%	PASS	7	30	PASS	
(TCMX)	NA	75			% Recovery	100	0	75	22 - 117%	PASS	1	30	PASS	
2,4'-DDD	NA	102	0.267	0.5	ng/dry g	103	0	99	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	90.9	0.2	0.5	ng/dry g	103	0	88	60 - 140%	PASS	2	30	PASS	
2,4'-DDT	NA	93.3	0.194	0.5	ng/dry g	103	0	91	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	111	0.198	0.5	ng/dry g	103	1.87	106	60 - 140%	PASS	3	30	PASS	
4,4'-DDE	NA	98.5	0.193	0.5	ng/dry g	103	3.68	92	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	110	0.223	0.5	ng/dry g	103	0	107	60 - 140%	PASS	4	30	PASS	
4,4'-DDT	NA	121	0.128	0.5	ng/dry g	103	0	117	60 - 140%	PASS	4	30	PASS	
Aldrin	NA	92.8	0.25	0.5	ng/dry g	103	0	90	60 - 140%	PASS	2	30	PASS	
BHC-alpha	NA	111	0.25	0.5	ng/dry g	103	0	108	60 - 140%	PASS	3	30	PASS	
BHC-beta	NA	80.2	0.25	0.5	ng/dry g	103	0	78	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	71	0.25	0.5	ng/dry g	103	0	69	60 - 140%	PASS	4	30	PASS	
BHC-gamma	NA	75	0.25	0.5	ng/dry g	103	0	73	60 - 140%	PASS	6	30	PASS	
Chlordane-alpha	NA	92.7	0.187	0.5	ng/dry g	103	3.39	87	60 - 140%	PASS	1	30	PASS	
Chlordane-gamma	NA	111	0.179	0.5	ng/dry g	103	5.32	103	60 - 140%	PASS	3	30	PASS	
cis-Nonachlor	NA	82.7	0.192	0.5	ng/dry g	103	2.01	78	60 - 140%	PASS	0	30	PASS	
DCPA (Dacthal)	NA	108	5	10	ng/dry g	103	0	105	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	71.2	2.5	5	ng/dry g	103	0	69	60 - 140%	PASS	15	30	PASS	
Dieldrin	NA	72.8	0.1	0.2	ng/dry g	103	0	71	60 - 140%	PASS	1	30	PASS	
Endosulfan Sulfate	NA	68	0.25	0.5	ng/dry g	103	0	66	60 - 140%	PASS	2	30	PASS	
Endosulfan-I	NA	16.3	0.25	0.5	ng/dry g	103	0	16	60 - 140%	FAIL	17	30	PASS	M
Endosulfan-II	NA	20.9	0.25	0.5	ng/dry g	103	0	20	60 - 140%	FAIL	14	30	PASS	M
Endrin	NA	95.6	0.25	0.5	ng/dry g	103	0	93	60 - 140%	PASS	1	30	PASS	
Endrin Aldehyde	NA	7.77	0.25	0.5	ng/dry g	103	0	8	60 - 140%	FAIL	32	30	FAIL	Q,M
Endrin Ketone	NA	62.8	0.25	0.5	ng/dry g	103	0	61	60 - 140%	PASS	3	30	PASS	
Heptachlor	NA	91	0.25	0.5	ng/dry g	103	0	88	60 - 140%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	110	0.25	0.5	ng/dry g	103	0	107	60 - 140%	PASS	4	30	PASS	
Hexachlorobenzene	NA	83.3	0.25	0.5	ng/dry g	103	0	81	60 - 140%	PASS	2	30	PASS	
Methoxychlor	NA	165	0.25	0.5	ng/dry g	103	0	160	60 - 140%	FAIL	2	30	PASS	M
Mirex	NA	67.7	0.25	0.5	ng/dry g	103	0	66	60 - 140%	PASS	6	30	PASS	
Oxychlordane	NA	75.4	0.25	0.5	ng/dry g	103	0	73	60 - 140%	PASS	6	30	PASS	
Perthane	NA	157	5	10	ng/dry g	103	0	152	60 - 140%	FAIL	1	30	PASS	M
trans-Nonachlor	NA	94	0.186	0.5	ng/dry g	103	3.09	88	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Toxaphene	NA	856	10	20	ng/dry g	1030	0	83	60 - 140%	PASS	16	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 30-Jan-19		
(PCB030)	NA	73			% Recovery	100	73	24 - 118%	PASS	1	30	PASS	
(PCB112)	NA	82			% Recovery	100	82	34 - 121%	PASS	1	30	PASS	
(PCB198)	NA	50			% Recovery	100	50	37 - 125%	PASS	13	30	PASS	
(TCMX)	NA	68			% Recovery	100	68	22 - 117%	PASS	1	30	PASS	
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g					0	30	PASS	
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g					0	30	PASS	
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g					0	30	PASS	
4,4'-DDD	NA	2.01	0.198	0.5	ng/dry g					15	30	PASS	
4,4'-DDE	NA	3.78	0.193	0.5	ng/dry g					5	30	PASS	
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g					0	30	PASS	
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g					0	30	PASS	
Aldrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-alpha	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-beta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-delta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-gamma	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Chlordane-alpha	NA	3.51	0.187	0.5	ng/dry g					7	30	PASS	
Chlordane-gamma	NA	5.83	0.179	0.5	ng/dry g					19	30	PASS	
cis-Nonachlor	NA	2.01	0.192	0.5	ng/dry g					0	30	PASS	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g					0	30	PASS	
Dicofol	NA	ND	2.5	5	ng/dry g					0	30	PASS	
Dieldrin	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Heptachlor	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Methoxychlor	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Mirex	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Oxychlordane	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Perthane	NA	ND	5	10	ng/dry g					0	30	PASS
trans-Nonachlor	NA	3.26	0.186	0.5	ng/dry g					11	30	PASS
		Method: EPA 8270D-NCI			Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
Toxaphene	NA	ND	10	20	ng/dry g					0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**	
	Method: EPA 6020				Batch ID: E-14070			Prepared: 24-Dec-18			Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS		
Antimony (Sb)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Arsenic (As)	NA	1.93	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS		
Barium (Ba)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Beryllium (Be)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Cadmium (Cd)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS		
Iron (Fe)	NA	1.9	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Nickel (Ni)	NA	2	0.01	0.02	µg/dry g	2	0	100	70 - 130%	PASS		
Selenium (Se)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Silver (Ag)	NA	0.198	0.01	0.02	µg/dry g	0.2	0	99	70 - 130%	PASS		
Zinc (Zn)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15087			Prepared: 11-Jan-19			Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1060	0.00001	0.00002	µg/dry g	1000	0	106	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18				Analyzed: 07-Feb-19		
Aluminum (Al)	NA	1.75	1	5	µg/dry g	2	0	88	70 - 130%	PASS	1	30	PASS
Antimony (Sb)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	1	30	PASS
Barium (Ba)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Beryllium (Be)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	3	30	PASS
Cadmium (Cd)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Copper (Cu)	NA	2.09	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	0	30	PASS
Iron (Fe)	NA	1.9	1	5	µg/dry g	2	0	95	70 - 130%	PASS	0	30	PASS
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS
Nickel (Ni)	NA	2.02	0.01	0.02	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Selenium (Se)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	0	30	PASS
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%	PASS	3	30	PASS
Zinc (Zn)	NA	1.95	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS	1	30	PASS
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19				Analyzed: 11-Jan-19		
Mercury (Hg)	NA	1050	0.00001	0.00002	µg/dry g	1000	0	105	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
		Method: EPA 6020			Batch ID: E-14069		Prepared: 24-Dec-18			Analyzed: 06-Feb-19		
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7			Batch ID: E-15086		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14069		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.84	1	5	µg/dry g	2	0	92	70 - 130%	PASS		
Antimony (Sb)	NA	2.15	0.025	0.05	µg/dry g	2	0	108	70 - 130%	PASS		
Arsenic (As)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS		
Barium (Ba)	NA	2.16	0.025	0.05	µg/dry g	2	0	108	70 - 130%	PASS		
Beryllium (Be)	NA	2.1	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS		
Cadmium (Cd)	NA	2.1	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS		
Chromium (Cr)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS		
Copper (Cu)	NA	2.14	0.0025	0.005	µg/dry g	2	0	107	70 - 130%	PASS		
Iron (Fe)	NA	2	1	5	µg/dry g	2	0	100	70 - 130%	PASS		
Lead (Pb)	NA	2.12	0.0025	0.005	µg/dry g	2	0	106	70 - 130%	PASS		
Nickel (Ni)	NA	2.11	0.01	0.02	µg/dry g	2	0	105	70 - 130%	PASS		
Selenium (Se)	NA	2.17	0.025	0.05	µg/dry g	2	0	109	70 - 130%	PASS		
Silver (Ag)	NA	0.209	0.01	0.02	µg/dry g	0.2	0	104	70 - 130%	PASS		
Zinc (Zn)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15086		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1040	0.00001	0.00002	µg/dry g	1000	0	104	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 6020				Batch ID: E-14069		Prepared: 24-Dec-18				Analyzed: 07-Feb-19		
Aluminum (Al)	NA	1.81	1	5	µg/dry g	2	0	90	70 - 130%	PASS	2	30	PASS
Antimony (Sb)	NA	2.13	0.025	0.05	µg/dry g	2	0	107	70 - 130%	PASS	1	30	PASS
Arsenic (As)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS
Barium (Ba)	NA	2.16	0.025	0.05	µg/dry g	2	0	108	70 - 130%	PASS	0	30	PASS
Beryllium (Be)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS	1	30	PASS
Cadmium (Cd)	NA	2.1	0.0025	0.005	µg/dry g	2	0	105	70 - 130%	PASS	0	30	PASS
Chromium (Cr)	NA	2.07	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	0	30	PASS
Copper (Cu)	NA	2.14	0.0025	0.005	µg/dry g	2	0	107	70 - 130%	PASS	0	30	PASS
Iron (Fe)	NA	1.97	1	5	µg/dry g	2	0	99	70 - 130%	PASS	2	30	PASS
Lead (Pb)	NA	2.13	0.0025	0.005	µg/dry g	2	0	107	70 - 130%	PASS	1	30	PASS
Nickel (Ni)	NA	2.12	0.01	0.02	µg/dry g	2	0	106	70 - 130%	PASS	1	30	PASS
Selenium (Se)	NA	2.15	0.025	0.05	µg/dry g	2	0	108	70 - 130%	PASS	0	30	PASS
Silver (Ag)	NA	0.209	0.01	0.02	µg/dry g	0.2	0	104	70 - 130%	PASS	0	30	PASS
Zinc (Zn)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS
	Method: EPA 245.7				Batch ID: E-15086		Prepared: 11-Jan-19				Analyzed: 11-Jan-19		
Mercury (Hg)	NA	1050	0.00001	0.00002	µg/dry g	1000	0	105	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56579-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14069		Prepared: 24-Dec-18				Analyzed: 06-Feb-19	
Aluminum (Al)	NA	15300	1	5	µg/dry g	10100	151	42 - 124%	FAIL			
Antimony (Sb)	NA	126	0.025	0.05	µg/dry g	145	87	10 - 137%	PASS			
Arsenic (As)	NA	183	0.025	0.05	µg/dry g	171	107	66 - 122%	PASS			
Beryllium (Be)	NA	109	0.025	0.05	µg/dry g	102	107	72 - 120%	PASS			
Cadmium (Cd)	NA	222	0.0025	0.005	µg/dry g	225	99	70 - 117%	PASS			
Chromium (Cr)	NA	166	0.0025	0.005	µg/dry g	144	115	66 - 123%	PASS			
Copper (Cu)	NA	175	0.0025	0.005	µg/dry g	174	101	71 - 119%	PASS			
Iron (Fe)	NA	22500	1	5	µg/dry g	15000	150	33 - 155%	PASS			
Lead (Pb)	NA	114	0.0025	0.005	µg/dry g	111	103	71 - 129%	PASS			
Nickel (Ni)	NA	97.6	0.01	0.02	µg/dry g	98.3	99	65 - 121%	PASS			
Selenium (Se)	NA	224	0.025	0.05	µg/dry g	206	109	64 - 122%	PASS			
Silver (Ag)	NA	43	0.01	0.02	µg/dry g	45.5	95	66 - 124%	PASS			
Zinc (Zn)	NA	218	0.025	0.05	µg/dry g	207	105	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15086		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	11	0.00001	0.00002	µg/dry g	12	92	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**		
	Method: EPA 6020				Batch ID: E-14069		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	24300	1	5	µg/dry g	58.2	24700	-687	70 - 130%	FAIL		SH
Antimony (Sb)	NA	62.1	0.025	0.05	µg/dry g	58.2	0.247	106	70 - 130%	PASS		
Arsenic (As)	NA	71.8	0.025	0.05	µg/dry g	58.2	7.58	110	70 - 130%	PASS		
Barium (Ba)	NA	136	0.025	0.05	µg/dry g	58.2	71.9	110	70 - 130%	PASS		
Beryllium (Be)	NA	62.8	0.025	0.05	µg/dry g	58.2	0.436	107	70 - 130%	PASS		
Cadmium (Cd)	NA	61.6	0.0025	0.005	µg/dry g	58.2	0.359	105	70 - 130%	PASS		
Chromium (Cr)	NA	117	0.0025	0.005	µg/dry g	58.2	54.8	107	70 - 130%	PASS		
Copper (Cu)	NA	145	0.0025	0.005	µg/dry g	58.2	85.5	102	70 - 130%	PASS		
Iron (Fe)	NA	23200	1	5	µg/dry g	58.2	23000	344	70 - 130%	FAIL		SH
Lead (Pb)	NA	103	0.0025	0.005	µg/dry g	58.2	45.7	98	70 - 130%	PASS		
Nickel (Ni)	NA	74.9	0.01	0.02	µg/dry g	58.2	14.3	104	70 - 130%	PASS		
Selenium (Se)	NA	67.4	0.025	0.05	µg/dry g	58.2	0.356	115	70 - 130%	PASS		
Silver (Ag)	NA	6.59	0.01	0.02	µg/dry g	5.82	0.675	102	70 - 130%	PASS		
Zinc (Zn)	NA	229	0.025	0.05	µg/dry g	58.2	169	103	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15086		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.538	0.00001	0.00002	µg/dry g	0.145	0.358	124	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 6020				Batch ID: E-14069			Prepared: 24-Dec-18			Analyzed: 07-Feb-19			
Aluminum (Al)	NA	24400	1	5	µg/dry g	58.2	24700	-515	70 - 130%	FAIL	29	30	PASS	Q,SH
Antimony (Sb)	NA	61.6	0.025	0.05	µg/dry g	58.2	0.247	105	70 - 130%	PASS	1	30	PASS	
Arsenic (As)	NA	71.9	0.025	0.05	µg/dry g	58.2	7.58	111	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	135	0.025	0.05	µg/dry g	58.2	71.9	108	70 - 130%	PASS	2	30	PASS	
Beryllium (Be)	NA	62.6	0.025	0.05	µg/dry g	58.2	0.436	107	70 - 130%	PASS	0	30	PASS	
Cadmium (Cd)	NA	62.8	0.0025	0.005	µg/dry g	58.2	0.359	107	70 - 130%	PASS	2	30	PASS	
Chromium (Cr)	NA	117	0.0025	0.005	µg/dry g	58.2	54.8	107	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	146	0.0025	0.005	µg/dry g	58.2	85.5	104	70 - 130%	PASS	2	30	PASS	
Iron (Fe)	NA	23400	1	5	µg/dry g	58.2	23000	687	70 - 130%	FAIL	67	30	FAIL	SH
Lead (Pb)	NA	104	0.0025	0.005	µg/dry g	58.2	45.7	100	70 - 130%	PASS	2	30	PASS	
Nickel (Ni)	NA	74.8	0.01	0.02	µg/dry g	58.2	14.3	104	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	66.4	0.025	0.05	µg/dry g	58.2	0.356	113	70 - 130%	PASS	2	30	PASS	
Silver (Ag)	NA	6.71	0.01	0.02	µg/dry g	5.82	0.675	104	70 - 130%	PASS	2	30	PASS	
Zinc (Zn)	NA	231	0.025	0.05	µg/dry g	58.2	169	107	70 - 130%	PASS	4	30	PASS	
	Method: EPA 245.7				Batch ID: E-15086			Prepared: 11-Jan-19			Analyzed: 11-Jan-19			
Mercury (Hg)	NA	0.558	0.00001	0.00002	µg/dry g	0.145	0.358	138	70 - 130%	FAIL	11	30	PASS	SH

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**			**Received: 20-Jul-18**		
	Method: EPA 6020				Batch ID: E-14069		Prepared: 24-Dec-18			Analyzed: 06-Feb-19		
Aluminum (Al)	NA	23700	1	5	µg/dry g					8	30	PASS
Antimony (Sb)	NA	0.254	0.025	0.05	µg/dry g					6	30	PASS
Arsenic (As)	NA	7.41	0.025	0.05	µg/dry g					4	30	PASS
Barium (Ba)	NA	69.3	0.025	0.05	µg/dry g					7	30	PASS
Beryllium (Be)	NA	0.462	0.025	0.05	µg/dry g					12	30	PASS
Cadmium (Cd)	NA	0.341	0.0025	0.005	µg/dry g					10	30	PASS
Chromium (Cr)	NA	52.8	0.0025	0.005	µg/dry g					7	30	PASS
Copper (Cu)	NA	83.3	0.0025	0.005	µg/dry g					5	30	PASS
Iron (Fe)	NA	22200	1	5	µg/dry g					7	30	PASS
Lead (Pb)	NA	44.9	0.0025	0.005	µg/dry g					4	30	PASS
Nickel (Ni)	NA	13.9	0.01	0.02	µg/dry g					6	30	PASS
Selenium (Se)	NA	0.369	0.025	0.05	µg/dry g					7	30	PASS
Silver (Ag)	NA	0.714	0.01	0.02	µg/dry g					12	30	PASS
Zinc (Zn)	NA	165	0.025	0.05	µg/dry g					5	30	PASS
	Method: EPA 245.7				Batch ID: E-15086		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.359	0.00001	0.00002	µg/dry g					0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56592-MS1	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	5580	1	5	µg/dry g	54.1	5990	-758	70 - 130%	FAIL		SH
Antimony (Sb)	NA	55.8	0.025	0.05	µg/dry g	54.1	0.153	103	70 - 130%	PASS		
Arsenic (As)	NA	62.2	0.025	0.05	µg/dry g	54.1	4.94	106	70 - 130%	PASS		
Barium (Ba)	NA	70.8	0.025	0.05	µg/dry g	54.1	15.5	102	70 - 130%	PASS		
Beryllium (Be)	NA	57.1	0.025	0.05	µg/dry g	54.1	0.115	105	70 - 130%	PASS		
Cadmium (Cd)	NA	55.3	0.0025	0.005	µg/dry g	54.1	0.0349	102	70 - 130%	PASS		
Chromium (Cr)	NA	66.7	0.0025	0.005	µg/dry g	54.1	9.78	105	70 - 130%	PASS		
Copper (Cu)	NA	69.6	0.0025	0.005	µg/dry g	54.1	14.4	102	70 - 130%	PASS		
Iron (Fe)	NA	8580	1	5	µg/dry g	54.1	8710	-240	70 - 130%	FAIL		SH
Lead (Pb)	NA	60.7	0.0025	0.005	µg/dry g	54.1	8.37	97	70 - 130%	PASS		
Nickel (Ni)	NA	58	0.01	0.02	µg/dry g	54.1	2.56	102	70 - 130%	PASS		
Selenium (Se)	NA	60.6	0.025	0.05	µg/dry g	54.1	0.112	112	70 - 130%	PASS		
Silver (Ag)	NA	5.46	0.01	0.02	µg/dry g	5.41	0.0776	99	70 - 130%	PASS		
Zinc (Zn)	NA	98	0.025	0.05	µg/dry g	54.1	45.2	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.188	0.00001	0.00002	µg/dry g	0.135	0.0459	105	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56592-MS2	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**				
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19				
Aluminum (Al)	NA	5530	1	5	µg/dry g	54.1	5990	-850	70 - 130%	FAIL	11	30	PASS	SH
Antimony (Sb)	NA	54.6	0.025	0.05	µg/dry g	54.1	0.153	101	70 - 130%	PASS	2	30	PASS	
Arsenic (As)	NA	62	0.025	0.05	µg/dry g	54.1	4.94	105	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	69.4	0.025	0.05	µg/dry g	54.1	15.5	100	70 - 130%	PASS	2	30	PASS	
Beryllium (Be)	NA	57.4	0.025	0.05	µg/dry g	54.1	0.115	106	70 - 130%	PASS	1	30	PASS	
Cadmium (Cd)	NA	55	0.0025	0.005	µg/dry g	54.1	0.0349	102	70 - 130%	PASS	0	30	PASS	
Chromium (Cr)	NA	66.4	0.0025	0.005	µg/dry g	54.1	9.78	105	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	69.8	0.0025	0.005	µg/dry g	54.1	14.4	102	70 - 130%	PASS	0	30	PASS	
Iron (Fe)	NA	8560	1	5	µg/dry g	54.1	8710	-277	70 - 130%	FAIL	14	30	PASS	SH
Lead (Pb)	NA	60.7	0.0025	0.005	µg/dry g	54.1	8.37	97	70 - 130%	PASS	0	30	PASS	
Nickel (Ni)	NA	57.5	0.01	0.02	µg/dry g	54.1	2.56	102	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	61.4	0.025	0.05	µg/dry g	54.1	0.112	113	70 - 130%	PASS	1	30	PASS	
Silver (Ag)	NA	5.52	0.01	0.02	µg/dry g	5.41	0.0776	101	70 - 130%	PASS	2	30	PASS	
Zinc (Zn)	NA	98.3	0.025	0.05	µg/dry g	54.1	45.2	98	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19				
Mercury (Hg)	NA	0.189	0.00001	0.00002	µg/dry g	0.135	0.0459	106	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56592-R2	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	5980	1	5	µg/dry g					0	30 PASS	
Antimony (Sb)	NA	0.145	0.025	0.05	µg/dry g					10	30 PASS	
Arsenic (As)	NA	4.87	0.025	0.05	µg/dry g					3	30 PASS	
Barium (Ba)	NA	14.4	0.025	0.05	µg/dry g					15	30 PASS	
Beryllium (Be)	NA	0.0938	0.025	0.05	µg/dry g					37	30 FAIL	SL
Cadmium (Cd)	NA	0.0346	0.0025	0.005	µg/dry g					2	30 PASS	
Chromium (Cr)	NA	9.9	0.0025	0.005	µg/dry g					2	30 PASS	
Copper (Cu)	NA	14.3	0.0025	0.005	µg/dry g					2	30 PASS	
Iron (Fe)	NA	8630	1	5	µg/dry g					2	30 PASS	
Lead (Pb)	NA	8.33	0.0025	0.005	µg/dry g					1	30 PASS	
Nickel (Ni)	NA	2.54	0.01	0.02	µg/dry g					2	30 PASS	
Selenium (Se)	NA	0.116	0.025	0.05	µg/dry g					7	30 PASS	
Silver (Ag)	NA	0.0744	0.01	0.02	µg/dry g					8	30 PASS	
Zinc (Zn)	NA	44.6	0.025	0.05	µg/dry g					3	30 PASS	
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.0492	0.00001	0.00002	µg/dry g					15	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 60150-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	12800	1	5	µg/dry g	10100		127	42 - 124%		FAIL	
Antimony (Sb)	NA	115	0.025	0.05	µg/dry g	145		79	10 - 137%		PASS	
Arsenic (As)	NA	177	0.025	0.05	µg/dry g	171		104	66 - 122%		PASS	
Beryllium (Be)	NA	104	0.025	0.05	µg/dry g	102		102	72 - 120%		PASS	
Cadmium (Cd)	NA	216	0.0025	0.005	µg/dry g	225		96	70 - 117%		PASS	
Chromium (Cr)	NA	158	0.0025	0.005	µg/dry g	144		110	66 - 123%		PASS	
Copper (Cu)	NA	174	0.0025	0.005	µg/dry g	174		100	71 - 119%		PASS	
Iron (Fe)	NA	22300	1	5	µg/dry g	15000		149	33 - 155%		PASS	
Lead (Pb)	NA	111	0.0025	0.005	µg/dry g	111		100	71 - 129%		PASS	
Nickel (Ni)	NA	96.6	0.01	0.02	µg/dry g	98.3		98	65 - 121%		PASS	
Selenium (Se)	NA	219	0.025	0.05	µg/dry g	206		106	64 - 122%		PASS	
Silver (Ag)	NA	42.6	0.01	0.02	µg/dry g	45.5		94	66 - 124%		PASS	
Zinc (Zn)	NA	209	0.025	0.05	µg/dry g	207		101	67 - 125%		PASS	
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	10.3	0.00001	0.00002	µg/dry g	12		86	57 - 133%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 14-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00874	0.0018	0.0036	µmol/dry g	0.0089	0	98	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0161	0.0062	0.0124	µmol/dry g	0.0157	0	103	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00487	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0172	0.0033	0.0066	µmol/dry g	0.017	0	101	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.00073	0.0047	0.0094	µmol/dry g	0.0009	0	79	70 - 130%	PASS				Q
Zinc (Zn) - SEM	NA	0.0154	0.0015	0.003	µmol/dry g	0.0153	0	101	70 - 130%	PASS				
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00871	0.0018	0.0036	µmol/dry g	0.0089	0	98	70 - 130%	PASS	0	30	PASS	
Copper (Cu) - SEM	NA	0.0162	0.0062	0.0124	µmol/dry g	0.0157	0	103	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.00483	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.0173	0.0033	0.0066	µmol/dry g	0.017	0	102	70 - 130%	PASS	1	30	PASS	
Silver (Ag) - SEM	NA	0.000777	0.0047	0.0094	µmol/dry g	0.0009	0	84	70 - 130%	PASS	6	30	PASS	
Zinc (Zn) - SEM	NA	0.0156	0.0015	0.003	µmol/dry g	0.0153	0	102	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00926	0.0018	0.0036	µmol/dry g	0.0089	0	104	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0162	0.0062	0.0124	µmol/dry g	0.0157	0	103	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00484	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0171	0.0033	0.0066	µmol/dry g	0.017	0	101	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000763	0.0047	0.0094	µmol/dry g	0.0009	0	82	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS				
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19					Analyzed: 09-Jan-19		
Cadmium (Cd) - SEM	NA	0.00906	0.0018	0.0036	µmol/dry g	0.0089	0	102	70 - 130%	PASS	2	30	PASS	
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	3	30	PASS	
Lead (Pb) - SEM	NA	0.00486	0.0002	0.0004	µmol/dry g	0.0048	0	101	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.0175	0.0033	0.0066	µmol/dry g	0.017	0	103	70 - 130%	PASS	2	30	PASS	
Silver (Ag) - SEM	NA	0.000842	0.0047	0.0094	µmol/dry g	0.0009	0	91	70 - 130%	PASS	10	30	PASS	
Zinc (Zn) - SEM	NA	0.0159	0.0015	0.003	µmol/dry g	0.0153	0	104	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	0.213	0.0018	0.0036	µmol/dry g	0.197	0	108	70 - 130%	PASS			
Copper (Cu) - SEM	NA	0.891	0.0062	0.0124	µmol/dry g	0.348	0.542	100	70 - 130%	PASS			
Lead (Pb) - SEM	NA	0.259	0.0002	0.0004	µmol/dry g	0.107	0.154	98	70 - 130%	PASS			
Nickel (Ni) - SEM	NA	0.409	0.0033	0.0066	µmol/dry g	0.377	0.0225	103	70 - 130%	PASS			
Silver (Ag) - SEM	NA	0.0184	0.0047	0.0094	µmol/dry g	0.0205	0	90	70 - 130%	PASS			
Zinc (Zn) - SEM	NA	1.87	0.0015	0.003	µmol/dry g	0.338	1.54	98	70 - 130%	PASS			
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	0.208	0.0018	0.0036	µmol/dry g	0.197	0	106	70 - 130%	PASS	2	30	PASS
Copper (Cu) - SEM	NA	0.894	0.0062	0.0124	µmol/dry g	0.348	0.542	101	70 - 130%	PASS	1	30	PASS
Lead (Pb) - SEM	NA	0.258	0.0002	0.0004	µmol/dry g	0.107	0.154	97	70 - 130%	PASS	1	30	PASS
Nickel (Ni) - SEM	NA	0.41	0.0033	0.0066	µmol/dry g	0.377	0.0225	103	70 - 130%	PASS	0	30	PASS
Silver (Ag) - SEM	NA	0.0193	0.0047	0.0094	µmol/dry g	0.0205	0	94	70 - 130%	PASS	4	30	PASS
Zinc (Zn) - SEM	NA	1.85	0.0015	0.003	µmol/dry g	0.338	1.54	92	70 - 130%	PASS	6	30	PASS
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 200.8				Batch ID: E-16156		Prepared: 08-Jan-19			Analyzed: 09-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS
Copper (Cu) - SEM	NA	0.541	0.0062	0.0124	µmol/dry g						1	30	PASS
Lead (Pb) - SEM	NA	0.153	0.0002	0.0004	µmol/dry g						1	30	PASS
Nickel (Ni) - SEM	NA	0.022	0.0033	0.0066	µmol/dry g						5	30	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS
Zinc (Zn) - SEM	NA	1.53	0.0015	0.003	µmol/dry g						1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56592-MS1	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**				
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19			Analyzed: 14-Jan-19				
Cadmium (Cd) - SEM	NA	0.144	0.0018	0.0036	µmol/dry g	0.139	0	104	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.364	0.0062	0.0124	µmol/dry g	0.247	0.1	107	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.0951	0.0002	0.0004	µmol/dry g	0.0757	0.022	97	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.282	0.0033	0.0066	µmol/dry g	0.267	0.0054	104	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.0142	0.0047	0.0094	µmol/dry g	0.0145	0	98	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.612	0.0015	0.003	µmol/dry g	0.24	0.375	99	70 - 130%	PASS				
Sample ID: 56592-MS2	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**				
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19			Analyzed: 14-Jan-19				
Cadmium (Cd) - SEM	NA	0.143	0.0018	0.0036	µmol/dry g	0.139	0	103	70 - 130%	PASS	1	30	PASS	
Copper (Cu) - SEM	NA	0.364	0.0062	0.0124	µmol/dry g	0.247	0.1	107	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.0943	0.0002	0.0004	µmol/dry g	0.0757	0.022	96	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.281	0.0033	0.0066	µmol/dry g	0.267	0.0054	103	70 - 130%	PASS	1	30	PASS	
Silver (Ag) - SEM	NA	0.0141	0.0047	0.0094	µmol/dry g	0.0145	0	97	70 - 130%	PASS	1	30	PASS	
Zinc (Zn) - SEM	NA	0.621	0.0015	0.003	µmol/dry g	0.24	0.375	102	70 - 130%	PASS	3	30	PASS	
Sample ID: 56592-R2	**B18-20116**				**Matrix: Sediment**		**Sampled: 19-Jul-18**	**9:45**		**Received: 20-Jul-18**				
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19			Analyzed: 14-Jan-19				
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS	
Copper (Cu) - SEM	NA	0.101	0.0062	0.0124	µmol/dry g						2	30	PASS	
Lead (Pb) - SEM	NA	0.0221	0.0002	0.0004	µmol/dry g						1	30	PASS	
Nickel (Ni) - SEM	NA	0.00554	0.0033	0.0066	µmol/dry g						5	30	PASS	J
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS	
Zinc (Zn) - SEM	NA	0.38	0.0015	0.003	µmol/dry g						2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Fipronil	NA	600	0.25	0.5	ng/dry g	500	0	120	60 - 140%	PASS			
Fipronil Desulfinyl	NA	548	0.25	0.5	ng/dry g	500	0	110	60 - 140%	PASS			
Fipronil Sulfide	NA	492	0.25	0.5	ng/dry g	500	0	98	60 - 140%	PASS			
Fipronil Sulfone	NA	452	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19	
Fipronil	NA	608	0.25	0.5	ng/dry g	500	0	122	60 - 140%	PASS	2	30 PASS	
Fipronil Desulfinyl	NA	562	0.25	0.5	ng/dry g	500	0	112	60 - 140%	PASS	2	30 PASS	
Fipronil Sulfide	NA	502	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	2	30 PASS	
Fipronil Sulfone	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	0	30 PASS	
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19	
Fipronil	NA	536	0.25	0.5	ng/dry g	500	0	107	60 - 140%	PASS			
Fipronil Desulfinyl	NA	514	0.25	0.5	ng/dry g	500	0	103	60 - 140%	PASS			
Fipronil Sulfide	NA	538	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS			
Fipronil Sulfone	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19		
Fipronil	NA	519	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	3	30	PASS	
Fipronil Desulfinyl	NA	563	0.25	0.5	ng/dry g	500	0	113	60 - 140%	PASS	9	30	PASS	
Fipronil Sulfide	NA	508	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS	6	30	PASS	
Fipronil Sulfone	NA	409	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Fipronil	NA	146	0.25	0.5	ng/dry g	104	0	140	60 - 140%	PASS				
Fipronil Desulfinyl	NA	162	0.25	0.5	ng/dry g	104	0	156	60 - 140%	FAIL				M
Fipronil Sulfide	NA	132	0.25	0.5	ng/dry g	104	0	127	60 - 140%	PASS				
Fipronil Sulfone	NA	74.2	0.25	0.5	ng/dry g	104	0	71	60 - 140%	PASS				
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Fipronil	NA	144	0.25	0.5	ng/dry g	103	0	140	60 - 140%	PASS	0	30	PASS	
Fipronil Desulfinyl	NA	169	0.25	0.5	ng/dry g	103	0	164	60 - 140%	FAIL	5	30	PASS	M
Fipronil Sulfide	NA	133	0.25	0.5	ng/dry g	103	0	129	60 - 140%	PASS	2	30	PASS	
Fipronil Sulfone	NA	66.2	0.25	0.5	ng/dry g	103	0	64	60 - 140%	PASS	10	30	PASS	
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 17-Jan-19		
Fipronil	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1108		Prepared: 14-Jan-19			Analyzed: 14-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56582-R2	**B18-10022**				**Matrix: Sediment**		**Sampled: 18-Jul-18 8:15**			**Received: 20-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1108		Prepared: 14-Jan-19			Analyzed: 14-Jan-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 10.0	NA	0.1	0.1	0.1	%					0	20 PASS	J
Phi 10.5	NA	0.3	0.1	0.1	%					0	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	2.6	0.1	0.1	%					26	20 PASS	Q
Phi 2.5	NA	15.8	0.1	0.1	%					0	20 PASS	
Phi 3.0	NA	22.8	0.1	0.1	%					1	20 PASS	
Phi 3.5	NA	24.5	0.1	0.1	%					2	20 PASS	
Phi 4.0	NA	14.8	0.1	0.1	%					1	20 PASS	
Phi 4.5	NA	6.1	0.1	0.1	%					2	20 PASS	
Phi 5.0	NA	3.4	0.1	0.1	%					3	20 PASS	
Phi 5.5	NA	1.6	0.1	0.1	%					6	20 PASS	
Phi 6.0	NA	2.1	0.1	0.1	%					0	20 PASS	
Phi 6.5	NA	1.2	0.1	0.1	%					0	20 PASS	
Phi 7.0	NA	1.5	0.1	0.1	%					7	20 PASS	
Phi 7.5	NA	0.7	0.1	0.1	%					0	20 PASS	
Phi 8.0	NA	0.7	0.1	0.1	%					0	20 PASS	
Phi 8.5	NA	0.8	0.1	0.1	%					0	20 PASS	
Phi 9.0	NA	0.7	0.1	0.1	%					15	20 PASS	
Phi 9.5	NA	0.4	0.1	0.1	%					22	20 PASS	SL,Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB003	NA	36.9	0.1	0.2	ng/dry g	50	0	74	60 - 140%		PASS	
PCB005	NA	42.6	0.1	0.2	ng/dry g	50	0	85	60 - 140%		PASS	
PCB008	NA	37.9	0.017	0.2	ng/dry g	50	0	76	60 - 140%		PASS	
PCB015	NA	47.1	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB018	NA	44.4	0.029	0.2	ng/dry g	50	0	89	60 - 140%		PASS	
PCB027	NA	46	0.1	0.2	ng/dry g	50	0	92	60 - 140%		PASS	
PCB028	NA	45.7	0.023	0.2	ng/dry g	50	0	91	60 - 140%		PASS	
PCB029	NA	50.4	0.1	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB031	NA	49.3	0.1	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB033	NA	52.4	0.1	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB037	NA	51.1	0.06	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB044	NA	49.3	0.028	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB049	NA	48.7	0.036	0.2	ng/dry g	50	0	97	60 - 140%		PASS	
PCB052	NA	49.3	0.012	0.2	ng/dry g	50	0	99	60 - 140%		PASS	
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB066	NA	54	0.027	0.2	ng/dry g	50	0	108	60 - 140%		PASS	
PCB070	NA	56.9	0.023	0.2	ng/dry g	50	0	114	60 - 140%		PASS	
PCB074	NA	53.7	0.021	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB077	NA	57.2	0.018	0.2	ng/dry g	50	0	114	60 - 140%		PASS	
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140%		PASS	
PCB087	NA	54.8	0.081	0.2	ng/dry g	50	0	110	60 - 140%		PASS	
PCB095	NA	48	0.1	0.2	ng/dry g	50	0	96	60 - 140%		PASS	
PCB097	NA	55.8	0.1	0.2	ng/dry g	50	0	112	60 - 140%		PASS	
PCB099	NA	50.2	0.028	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB101	NA	49.8	0.027	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB105	NA	43	0.047	0.2	ng/dry g	50	0	86	60 - 140%		PASS	
PCB110	NA	51.4	0.074	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB114	NA	51.7	0.072	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB118	NA	52.1	0.069	0.2	ng/dry g	50	0	104	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.1	0.071	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS			
PCB126	NA	51.9	0.086	0.2	ng/dry g	50	0	104	60 - 140%	PASS			
PCB128	NA	44.6	0.081	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB137	NA	45.6	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	45.2	0.057	0.2	ng/dry g	50	0	90	60 - 140%	PASS			
PCB141	NA	42.4	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS			
PCB149	NA	45.4	0.092	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB151	NA	58.7	0.073	0.2	ng/dry g	50	0	117	60 - 140%	PASS			
PCB153	NA	46.3	0.065	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB156	NA	58.9	0.089	0.2	ng/dry g	50	0	118	60 - 140%	PASS			
PCB157	NA	46	0.103	0.2	ng/dry g	50	0	92	60 - 140%	PASS			
PCB158	NA	47.1	0.074	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB167	NA	51.5	0.049	0.2	ng/dry g	50	0	103	60 - 140%	PASS			
PCB168+132	NA	85	0.094	0.2	ng/dry g	100	0	85	60 - 140%	PASS			
PCB169	NA	62.4	0.116	0.2	ng/dry g	50	0	125	60 - 140%	PASS			
PCB170	NA	51.4	0.118	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB174	NA	51.8	0.12	0.25	ng/dry g	50	0	104	60 - 140%	PASS			
PCB177	NA	58.3	0.085	0.25	ng/dry g	50	0	117	60 - 140%	PASS			
PCB180	NA	56.2	0.154	0.25	ng/dry g	50	0	112	60 - 140%	PASS			
PCB183	NA	51.4	0.056	0.25	ng/dry g	50	0	103	60 - 140%	PASS			
PCB187	NA	52	0.168	0.25	ng/dry g	50	0	104	60 - 140%	PASS			
PCB189	NA	57.5	0.109	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB194	NA	63.5	0.164	0.25	ng/dry g	50	0	127	60 - 140%	PASS			
PCB195	NA	54.2	0.093	0.25	ng/dry g	50	0	108	60 - 140%	PASS			
PCB199(200)	NA	50.7	0.12	0.25	ng/dry g	50	0	101	60 - 140%	PASS			
PCB201	NA	42.5	0.104	0.25	ng/dry g	50	0	85	60 - 140%	PASS			
PCB203	NA	51	0.12	0.25	ng/dry g	50	0	102	60 - 140%	PASS			
PCB206	NA	59.8	0.155	0.25	ng/dry g	50	0	120	60 - 140%	PASS			
PCB209	NA	54.9	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
PCB003	NA	35.3	0.1	0.2	ng/dry g	50	0	71	60 - 140%	PASS	4	30 PASS	
PCB005	NA	41.1	0.1	0.2	ng/dry g	50	0	82	60 - 140%	PASS	4	30 PASS	
PCB008	NA	40.3	0.017	0.2	ng/dry g	50	0	81	60 - 140%	PASS	6	30 PASS	
PCB015	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	1	30 PASS	
PCB018	NA	43.8	0.029	0.2	ng/dry g	50	0	88	60 - 140%	PASS	1	30 PASS	
PCB027	NA	44.9	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	2	30 PASS	
PCB028	NA	45.8	0.023	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30 PASS	
PCB029	NA	51	0.1	0.2	ng/dry g	50	0	102	60 - 140%	PASS	1	30 PASS	
PCB031	NA	48	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS	3	30 PASS	
PCB033	NA	51	0.1	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30 PASS	
PCB037	NA	52.4	0.06	0.2	ng/dry g	50	0	105	60 - 140%	PASS	3	30 PASS	
PCB044	NA	51.4	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS	4	30 PASS	
PCB049	NA	48.7	0.036	0.2	ng/dry g	50	0	97	60 - 140%	PASS	0	30 PASS	
PCB052	NA	49.9	0.012	0.2	ng/dry g	50	0	100	60 - 140%	PASS	1	30 PASS	
PCB056(060)	NA	50.1	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	4	30 PASS	
PCB066	NA	54.5	0.027	0.2	ng/dry g	50	0	109	60 - 140%	PASS	1	30 PASS	
PCB070	NA	57.7	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	1	30 PASS	
PCB074	NA	53.7	0.021	0.2	ng/dry g	50	0	107	60 - 140%	PASS	0	30 PASS	
PCB077	NA	57.3	0.018	0.2	ng/dry g	50	0	115	60 - 140%	PASS	1	30 PASS	
PCB081	NA	57.9	0.084	0.2	ng/dry g	50	0	116	60 - 140%	PASS	1	30 PASS	
PCB087	NA	54.2	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS	2	30 PASS	
PCB095	NA	48.6	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS	1	30 PASS	
PCB097	NA	57.8	0.1	0.2	ng/dry g	50	0	116	60 - 140%	PASS	4	30 PASS	
PCB099	NA	50.2	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	0	30 PASS	
PCB101	NA	51.6	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30 PASS	
PCB105	NA	43.2	0.047	0.2	ng/dry g	50	0	86	60 - 140%	PASS	0	30 PASS	
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140%	PASS	2	30 PASS	
PCB114	NA	51.5	0.072	0.2	ng/dry g	50	0	103	60 - 140%	PASS	0	30 PASS	
PCB118	NA	52.7	0.069	0.2	ng/dry g	50	0	105	60 - 140%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	50.8	0.071	0.2	ng/dry g	50	0	102	60 - 140%	PASS	2	30	PASS	
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS	0	30	PASS	
PCB126	NA	53.6	0.086	0.2	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB128	NA	45.8	0.081	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB137	NA	45.6	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS	0	30	PASS	
PCB138	NA	45.9	0.057	0.2	ng/dry g	50	0	92	60 - 140%	PASS	2	30	PASS	
PCB141	NA	42.3	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.8	0.092	0.2	ng/dry g	50	0	94	60 - 140%	PASS	3	30	PASS	
PCB151	NA	59.7	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS	2	30	PASS	
PCB153	NA	47.7	0.065	0.2	ng/dry g	50	0	95	60 - 140%	PASS	2	30	PASS	
PCB156	NA	61.4	0.089	0.2	ng/dry g	50	0	123	60 - 140%	PASS	4	30	PASS	
PCB157	NA	46.2	0.103	0.2	ng/dry g	50	0	92	60 - 140%	PASS	0	30	PASS	
PCB158	NA	48.1	0.074	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB167	NA	53.7	0.049	0.2	ng/dry g	50	0	107	60 - 140%	PASS	4	30	PASS	
PCB168+132	NA	87.4	0.094	0.2	ng/dry g	100	0	87	60 - 140%	PASS	2	30	PASS	
PCB169	NA	66.5	0.116	0.2	ng/dry g	50	0	133	60 - 140%	PASS	6	30	PASS	
PCB170	NA	54.4	0.118	0.25	ng/dry g	50	0	109	60 - 140%	PASS	6	30	PASS	
PCB174	NA	54.2	0.12	0.25	ng/dry g	50	0	108	60 - 140%	PASS	4	30	PASS	
PCB177	NA	58	0.085	0.25	ng/dry g	50	0	116	60 - 140%	PASS	1	30	PASS	
PCB180	NA	59	0.154	0.25	ng/dry g	50	0	118	60 - 140%	PASS	5	30	PASS	
PCB183	NA	53.3	0.056	0.25	ng/dry g	50	0	107	60 - 140%	PASS	4	30	PASS	
PCB187	NA	52.7	0.168	0.25	ng/dry g	50	0	105	60 - 140%	PASS	1	30	PASS	
PCB189	NA	61.9	0.109	0.25	ng/dry g	50	0	124	60 - 140%	PASS	8	30	PASS	
PCB194	NA	62.6	0.164	0.25	ng/dry g	50	0	125	60 - 140%	PASS	2	30	PASS	
PCB195	NA	58.2	0.093	0.25	ng/dry g	50	0	116	60 - 140%	PASS	7	30	PASS	
PCB199(200)	NA	52.9	0.12	0.25	ng/dry g	50	0	106	60 - 140%	PASS	5	30	PASS	
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS	5	30	PASS	
PCB203	NA	53.4	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	5	30	PASS	
PCB206	NA	59.3	0.155	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB209	NA	57.6	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20905-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB008	NA	25.9	0.017	0.2	ng/dry g	22.3		116	60 - 140% PASS			
PCB018	NA	45.4	0.029	0.2	ng/dry g	51		89	60 - 140% PASS			
PCB028	NA	78.9	0.023	0.2	ng/dry g	80.8		98	60 - 140% PASS			
PCB044	NA	41.5	0.028	0.2	ng/dry g	60.2		69	60 - 140% PASS			
PCB049	NA	39.6	0.036	0.2	ng/dry g	53		75	60 - 140% PASS			
PCB052	NA	67.9	0.012	0.2	ng/dry g	79.4		86	60 - 140% PASS			
PCB066	NA	51.2	0.027	0.2	ng/dry g	71.9		71	60 - 140% PASS			
PCB087	NA	19.3	0.081	0.2	ng/dry g	29.9		65	60 - 140% PASS			
PCB099	NA	22.8	0.028	0.2	ng/dry g	37.5		61	60 - 140% PASS			
PCB101	NA	48.6	0.027	0.2	ng/dry g	73.4		66	60 - 140% PASS			
PCB105	NA	9.85	0.047	0.2	ng/dry g	24.5		40	60 - 140% FAIL			1
PCB110	NA	41.2	0.074	0.2	ng/dry g	63.5		65	60 - 140% PASS			
PCB118	NA	30.5	0.069	0.2	ng/dry g	58		53	60 - 140% FAIL			1
PCB128	NA	3.4	0.081	0.2	ng/dry g	8.5		40	60 - 140% FAIL			1
PCB138	NA	52.5	0.057	0.2	ng/dry g	62.1		85	60 - 140% PASS			
PCB149	NA	33.8	0.092	0.2	ng/dry g	49.7		68	60 - 140% PASS			
PCB151	NA	12.2	0.073	0.2	ng/dry g	16.9		72	60 - 140% PASS			
PCB153	NA	50.6	0.065	0.2	ng/dry g	74		68	60 - 140% PASS			
PCB156	NA	2.58	0.089	0.2	ng/dry g	6.5		40	60 - 140% FAIL			1
PCB174	NA	15.1	0.12	0.25	ng/dry g	16		94	60 - 140% PASS			
PCB180	NA	31.9	0.154	0.25	ng/dry g	44.3		72	60 - 140% PASS			
PCB183	NA	10.3	0.056	0.25	ng/dry g	12.2		84	60 - 140% PASS			
PCB187	NA	22	0.168	0.25	ng/dry g	25.1		88	60 - 140% PASS			
PCB194	NA	6.83	0.164	0.25	ng/dry g	11.2		61	60 - 140% PASS			
PCB195	NA	3.71	0.093	0.25	ng/dry g	3.8		98	60 - 140% PASS			
PCB206	NA	5.74	0.155	0.25	ng/dry g	9.2		62	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB003	NA	41.6	0.1	0.2	ng/dry g	50	0	83	60 - 140%	PASS		
PCB005	NA	40.9	0.1	0.2	ng/dry g	50	0	82	60 - 140%	PASS		
PCB008	NA	42.3	0.017	0.2	ng/dry g	50	0	85	60 - 140%	PASS		
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS		
PCB018	NA	47.1	0.029	0.2	ng/dry g	50	0	94	60 - 140%	PASS		
PCB027	NA	46.8	0.1	0.2	ng/dry g	50	0	94	60 - 140%	PASS		
PCB028	NA	48	0.023	0.2	ng/dry g	50	0	96	60 - 140%	PASS		
PCB029	NA	53.7	0.1	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB031	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS		
PCB033	NA	53.3	0.1	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB037	NA	53.3	0.06	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB044	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB049	NA	51.7	0.036	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB052	NA	50.1	0.012	0.2	ng/dry g	50	0	100	60 - 140%	PASS		
PCB056(060)	NA	52	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS		
PCB066	NA	55.7	0.027	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB074	NA	55.7	0.021	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB077	NA	58.3	0.018	0.2	ng/dry g	50	0	117	60 - 140%	PASS		
PCB081	NA	58.9	0.084	0.2	ng/dry g	50	0	118	60 - 140%	PASS		
PCB087	NA	55.3	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB095	NA	48.5	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS		
PCB097	NA	58.6	0.1	0.2	ng/dry g	50	0	117	60 - 140%	PASS		
PCB099	NA	50.6	0.028	0.2	ng/dry g	50	0	101	60 - 140%	PASS		
PCB101	NA	51.2	0.027	0.2	ng/dry g	50	0	102	60 - 140%	PASS		
PCB105	NA	41.9	0.047	0.2	ng/dry g	50	0	84	60 - 140%	PASS		
PCB110	NA	52.3	0.074	0.2	ng/dry g	50	0	105	60 - 140%	PASS		
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS		
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	51.1	0.071	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS			
PCB126	NA	50.2	0.086	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB128	NA	54	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS			
PCB137	NA	42.4	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS			
PCB138	NA	42.9	0.057	0.2	ng/dry g	50	0	86	60 - 140%	PASS			
PCB141	NA	39.8	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS			
PCB149	NA	45.5	0.092	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB151	NA	58.5	0.073	0.2	ng/dry g	50	0	117	60 - 140%	PASS			
PCB153	NA	46.3	0.065	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB156	NA	62.5	0.089	0.2	ng/dry g	50	0	125	60 - 140%	PASS			
PCB157	NA	44.4	0.103	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB158	NA	46.1	0.074	0.2	ng/dry g	50	0	92	60 - 140%	PASS			
PCB167	NA	57.3	0.049	0.2	ng/dry g	50	0	115	60 - 140%	PASS			
PCB168+132	NA	85.6	0.094	0.2	ng/dry g	100	0	86	60 - 140%	PASS			
PCB169	NA	70.9	0.116	0.2	ng/dry g	50	0	142	60 - 140%	FAIL			Q
PCB170	NA	55.4	0.118	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB174	NA	51.2	0.12	0.25	ng/dry g	50	0	102	60 - 140%	PASS			
PCB177	NA	59.4	0.085	0.25	ng/dry g	50	0	119	60 - 140%	PASS			
PCB180	NA	63.8	0.154	0.25	ng/dry g	50	0	128	60 - 140%	PASS			
PCB183	NA	53.3	0.056	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB187	NA	58.8	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	68	0.109	0.25	ng/dry g	50	0	136	60 - 140%	PASS			
PCB194	NA	71.9	0.164	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB195	NA	63.1	0.093	0.25	ng/dry g	50	0	126	60 - 140%	PASS			
PCB199(200)	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB201	NA	41.8	0.104	0.25	ng/dry g	50	0	84	60 - 140%	PASS			
PCB203	NA	57.9	0.12	0.25	ng/dry g	50	0	116	60 - 140%	PASS			
PCB206	NA	72.2	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB209	NA	65.1	0.12	0.25	ng/dry g	50	0	130	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
PCB003	NA	38.4	0.1	0.2	ng/dry g	50	0	77	60 - 140%	PASS	8	30	PASS
PCB005	NA	40.1	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS	2	30	PASS
PCB008	NA	38.3	0.017	0.2	ng/dry g	50	0	77	60 - 140%	PASS	10	30	PASS
PCB015	NA	47.8	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS	5	30	PASS
PCB018	NA	44.7	0.029	0.2	ng/dry g	50	0	89	60 - 140%	PASS	5	30	PASS
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	4	30	PASS
PCB028	NA	45.1	0.023	0.2	ng/dry g	50	0	90	60 - 140%	PASS	6	30	PASS
PCB029	NA	50.7	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	6	30	PASS
PCB031	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	5	30	PASS
PCB033	NA	49.8	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS
PCB037	NA	50	0.06	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS
PCB044	NA	48.1	0.028	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS
PCB049	NA	47.8	0.036	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS
PCB052	NA	47.7	0.012	0.2	ng/dry g	50	0	95	60 - 140%	PASS	5	30	PASS
PCB056(060)	NA	47.7	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	9	30	PASS
PCB066	NA	52.2	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	7	30	PASS
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%	PASS	0	30	PASS
PCB074	NA	50.3	0.021	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS
PCB077	NA	53.8	0.018	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS
PCB081	NA	55.3	0.084	0.2	ng/dry g	50	0	111	60 - 140%	PASS	6	30	PASS
PCB087	NA	50.6	0.081	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS
PCB095	NA	44.8	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	7	30	PASS
PCB097	NA	53.9	0.1	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS
PCB099	NA	47.6	0.028	0.2	ng/dry g	50	0	95	60 - 140%	PASS	6	30	PASS
PCB101	NA	48.1	0.027	0.2	ng/dry g	50	0	96	60 - 140%	PASS	6	30	PASS
PCB105	NA	38.6	0.047	0.2	ng/dry g	50	0	77	60 - 140%	PASS	9	30	PASS
PCB110	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS	8	30	PASS
PCB114	NA	49.1	0.072	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS
PCB118	NA	48.6	0.069	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	47.7	0.071	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB123	NA	46.1	0.018	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS	
PCB126	NA	48.4	0.086	0.2	ng/dry g	50	0	97	60 - 140%	PASS	3	30	PASS	
PCB128	NA	53.6	0.081	0.2	ng/dry g	50	0	107	60 - 140%	PASS	1	30	PASS	
PCB137	NA	40.4	0.1	0.2	ng/dry g	50	0	81	60 - 140%	PASS	5	30	PASS	
PCB138	NA	42.1	0.057	0.2	ng/dry g	50	0	84	60 - 140%	PASS	2	30	PASS	
PCB141	NA	37.7	0.1	0.2	ng/dry g	50	0	75	60 - 140%	PASS	6	30	PASS	
PCB149	NA	42.6	0.092	0.2	ng/dry g	50	0	85	60 - 140%	PASS	7	30	PASS	
PCB151	NA	55	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	6	30	PASS	
PCB153	NA	43.6	0.065	0.2	ng/dry g	50	0	87	60 - 140%	PASS	7	30	PASS	
PCB156	NA	59.5	0.089	0.2	ng/dry g	50	0	119	60 - 140%	PASS	5	30	PASS	
PCB157	NA	45.3	0.103	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB158	NA	43.4	0.074	0.2	ng/dry g	50	0	87	60 - 140%	PASS	6	30	PASS	
PCB167	NA	54.1	0.049	0.2	ng/dry g	50	0	108	60 - 140%	PASS	6	30	PASS	
PCB168+132	NA	78.9	0.094	0.2	ng/dry g	100	0	79	60 - 140%	PASS	8	30	PASS	
PCB169	NA	76.1	0.116	0.2	ng/dry g	50	0	152	60 - 140%	FAIL	7	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	2	30	PASS	
PCB174	NA	49.9	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PCB177	NA	56.8	0.085	0.25	ng/dry g	50	0	114	60 - 140%	PASS	4	30	PASS	
PCB180	NA	62.8	0.154	0.25	ng/dry g	50	0	126	60 - 140%	PASS	2	30	PASS	
PCB183	NA	49.6	0.056	0.25	ng/dry g	50	0	99	60 - 140%	PASS	8	30	PASS	
PCB187	NA	54.2	0.168	0.25	ng/dry g	50	0	108	60 - 140%	PASS	9	30	PASS	
PCB189	NA	75.6	0.109	0.25	ng/dry g	50	0	151	60 - 140%	FAIL	10	30	PASS	Q
PCB194	NA	74.3	0.164	0.25	ng/dry g	50	0	149	60 - 140%	FAIL	3	30	PASS	R
PCB195	NA	65.9	0.093	0.25	ng/dry g	50	0	132	60 - 140%	PASS	5	30	PASS	
PCB199(200)	NA	56.1	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	2	30	PASS	
PCB201	NA	40.7	0.104	0.25	ng/dry g	50	0	81	60 - 140%	PASS	4	30	PASS	
PCB203	NA	58.3	0.12	0.25	ng/dry g	50	0	117	60 - 140%	PASS	1	30	PASS	
PCB206	NA	72	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	0	30	PASS	Q
PCB209	NA	66.3	0.12	0.25	ng/dry g	50	0	133	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56580-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB008	NA	27.2	0.017	0.2	ng/dry g	22.3		122	60 - 140%	PASS		
PCB018	NA	47.7	0.029	0.2	ng/dry g	51		94	60 - 140%	PASS		
PCB028	NA	78.1	0.023	0.2	ng/dry g	80.8		97	60 - 140%	PASS		
PCB044	NA	43.3	0.028	0.2	ng/dry g	60.2		72	60 - 140%	PASS		
PCB049	NA	43.2	0.036	0.2	ng/dry g	53		82	60 - 140%	PASS		
PCB052	NA	65.8	0.012	0.2	ng/dry g	79.4		83	60 - 140%	PASS		
PCB066	NA	54.9	0.027	0.2	ng/dry g	71.9		76	60 - 140%	PASS		
PCB087	NA	19.6	0.081	0.2	ng/dry g	29.9		66	60 - 140%	PASS		
PCB099	NA	23.2	0.028	0.2	ng/dry g	37.5		62	60 - 140%	PASS		
PCB101	NA	52.1	0.027	0.2	ng/dry g	73.4		71	60 - 140%	PASS		
PCB105	NA	18.7	0.047	0.2	ng/dry g	24.5		76	60 - 140%	PASS		
PCB110	NA	46.8	0.074	0.2	ng/dry g	63.5		74	60 - 140%	PASS		
PCB118	NA	34.9	0.069	0.2	ng/dry g	58		60	60 - 140%	PASS		
PCB128	NA	3.05	0.081	0.2	ng/dry g	8.5		36	60 - 140%	FAIL		1
PCB138	NA	52.3	0.057	0.2	ng/dry g	62.1		84	60 - 140%	PASS		
PCB149	NA	36.4	0.092	0.2	ng/dry g	49.7		73	60 - 140%	PASS		
PCB151	NA	14.7	0.073	0.2	ng/dry g	16.9		87	60 - 140%	PASS		
PCB153	NA	55.9	0.065	0.2	ng/dry g	74		76	60 - 140%	PASS		
PCB156	NA	2.53	0.089	0.2	ng/dry g	6.5		39	60 - 140%	FAIL		1
PCB174	NA	16.1	0.12	0.25	ng/dry g	16		101	60 - 140%	PASS		
PCB180	NA	38.5	0.154	0.25	ng/dry g	44.3		87	60 - 140%	PASS		
PCB183	NA	10.7	0.056	0.25	ng/dry g	12.2		88	60 - 140%	PASS		
PCB187	NA	25.3	0.168	0.25	ng/dry g	25.1		101	60 - 140%	PASS		
PCB194	NA	9.72	0.164	0.25	ng/dry g	11.2		87	60 - 140%	PASS		
PCB195	NA	3.32	0.093	0.25	ng/dry g	3.8		87	60 - 140%	PASS		
PCB206	NA	6.98	0.155	0.25	ng/dry g	9.2		76	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
PCB003	NA	9.14	0.1	0.2	ng/dry g	10.4	0	88	60 - 140%		PASS	
PCB005	NA	9.69	0.1	0.2	ng/dry g	10.4	0	93	60 - 140%		PASS	
PCB008	NA	8.29	0.017	0.2	ng/dry g	10.4	0	80	60 - 140%		PASS	
PCB015	NA	11.1	0.1	0.2	ng/dry g	10.4	0	107	60 - 140%		PASS	
PCB018	NA	10.3	0.029	0.2	ng/dry g	10.4	0	99	60 - 140%		PASS	
PCB027	NA	10.6	0.1	0.2	ng/dry g	10.4	0	102	60 - 140%		PASS	
PCB028	NA	13.3	0.023	0.2	ng/dry g	10.4	4.9	81	60 - 140%		PASS	
PCB029	NA	10.7	0.1	0.2	ng/dry g	10.4	0	103	60 - 140%		PASS	
PCB031	NA	12.2	0.1	0.2	ng/dry g	10.4	2.33	95	60 - 140%		PASS	
PCB033	NA	14.1	0.1	0.2	ng/dry g	10.4	1.87	118	60 - 140%		PASS	
PCB037	NA	12.4	0.06	0.2	ng/dry g	10.4	0	119	60 - 140%		PASS	
PCB044	NA	19.2	0.028	0.2	ng/dry g	10.4	7.45	113	60 - 140%		PASS	
PCB049	NA	15.5	0.036	0.2	ng/dry g	10.4	6.63	85	60 - 140%		PASS	
PCB052	NA	21.1	0.012	0.2	ng/dry g	10.4	10.7	100	60 - 140%		PASS	
PCB056(060)	NA	16.8	0.1	0.2	ng/dry g	10.4	6.94	95	60 - 140%		PASS	
PCB066	NA	26.5	0.027	0.2	ng/dry g	10.4	15.4	107	60 - 140%		PASS	
PCB070	NA	23.1	0.023	0.2	ng/dry g	10.4	12.1	106	60 - 140%		PASS	
PCB074	NA	16.8	0.021	0.2	ng/dry g	10.4	5.44	109	60 - 140%		PASS	
PCB077	NA	10.8	0.018	0.2	ng/dry g	10.4	0	104	60 - 140%		PASS	
PCB081	NA	10.9	0.084	0.2	ng/dry g	10.4	0	105	60 - 140%		PASS	
PCB087	NA	14.3	0.081	0.2	ng/dry g	10.4	4.78	92	60 - 140%		PASS	
PCB095	NA	18.2	0.1	0.2	ng/dry g	10.4	9.06	88	60 - 140%		PASS	
PCB097	NA	16.5	0.1	0.2	ng/dry g	10.4	4.03	120	60 - 140%		PASS	
PCB099	NA	17.5	0.028	0.2	ng/dry g	10.4	6.44	106	60 - 140%		PASS	
PCB101	NA	21.9	0.027	0.2	ng/dry g	10.4	12.1	94	60 - 140%		PASS	
PCB105	NA	11.1	0.047	0.2	ng/dry g	10.4	3.3	75	60 - 140%		PASS	
PCB110	NA	20.1	0.074	0.2	ng/dry g	10.4	10.8	89	60 - 140%		PASS	
PCB114	NA	6.91	0.072	0.2	ng/dry g	10.4	0	66	60 - 140%		PASS	
PCB118	NA	18.3	0.069	0.2	ng/dry g	10.4	9.49	85	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	9.24	0.071	0.2	ng/dry g	10.4	0	89	60 - 140%	PASS			
PCB123	NA	7.97	0.018	0.2	ng/dry g	10.4	0	77	60 - 140%	PASS			
PCB126	NA	7.51	0.086	0.2	ng/dry g	10.4	0	72	60 - 140%	PASS			
PCB128	NA	11.3	0.081	0.2	ng/dry g	10.4	0	109	60 - 140%	PASS			
PCB137	NA	9.12	0.1	0.2	ng/dry g	10.4	0	88	60 - 140%	PASS			
PCB138	NA	23	0.057	0.2	ng/dry g	10.4	13.5	91	60 - 140%	PASS			
PCB141	NA	10.3	0.1	0.2	ng/dry g	10.4	1.41	85	60 - 140%	PASS			
PCB149	NA	15.7	0.092	0.2	ng/dry g	10.4	7.38	80	60 - 140%	PASS			
PCB151	NA	13.8	0.073	0.2	ng/dry g	10.4	2.59	108	60 - 140%	PASS			
PCB153	NA	21.2	0.065	0.2	ng/dry g	10.4	11.3	95	60 - 140%	PASS			
PCB156	NA	9.77	0.089	0.2	ng/dry g	10.4	0	94	60 - 140%	PASS			
PCB157	NA	7	0.103	0.2	ng/dry g	10.4	0	67	60 - 140%	PASS			
PCB158	NA	9.43	0.074	0.2	ng/dry g	10.4	0	91	60 - 140%	PASS			
PCB167	NA	8.38	0.049	0.2	ng/dry g	10.4	0	81	60 - 140%	PASS			
PCB168+132	NA	21	0.094	0.2	ng/dry g	20.8	2.61	88	60 - 140%	PASS			
PCB169	NA	7.49	0.116	0.2	ng/dry g	10.4	0	72	60 - 140%	PASS			
PCB170	NA	10.5	0.118	0.25	ng/dry g	10.4	2.01	82	60 - 140%	PASS			
PCB174	NA	12	0.12	0.25	ng/dry g	10.4	2.65	90	60 - 140%	PASS			
PCB177	NA	11.9	0.085	0.25	ng/dry g	10.4	1.75	98	60 - 140%	PASS			
PCB180	NA	15.4	0.154	0.25	ng/dry g	10.4	5.67	94	60 - 140%	PASS			
PCB183	NA	11.9	0.056	0.25	ng/dry g	10.4	1.86	97	60 - 140%	PASS			
PCB187	NA	14.1	0.168	0.25	ng/dry g	10.4	3.97	97	60 - 140%	PASS			
PCB189	NA	7.76	0.109	0.25	ng/dry g	10.4	0	75	60 - 140%	PASS			
PCB194	NA	9.48	0.164	0.25	ng/dry g	10.4	0	91	60 - 140%	PASS			
PCB195	NA	8.96	0.093	0.25	ng/dry g	10.4	0	86	60 - 140%	PASS			
PCB199(200)	NA	9.07	0.12	0.25	ng/dry g	10.4	0	87	60 - 140%	PASS			
PCB201	NA	7.64	0.104	0.25	ng/dry g	10.4	0	73	60 - 140%	PASS			
PCB203	NA	9.53	0.12	0.25	ng/dry g	10.4	0	92	60 - 140%	PASS			
PCB206	NA	7.89	0.155	0.25	ng/dry g	10.4	0	76	60 - 140%	PASS			
PCB209	NA	6.7	0.12	0.25	ng/dry g	10.4	0	64	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 29-Jan-19			
PCB003	NA	9.53	0.1	0.2	ng/dry g	10.3	0	93	60 - 140%	PASS	6	30	PASS	
PCB005	NA	9.83	0.1	0.2	ng/dry g	10.3	0	95	60 - 140%	PASS	2	30	PASS	
PCB008	NA	8.88	0.017	0.2	ng/dry g	10.3	0	86	60 - 140%	PASS	7	30	PASS	
PCB015	NA	11.3	0.1	0.2	ng/dry g	10.3	0	110	60 - 140%	PASS	3	30	PASS	
PCB018	NA	10.4	0.029	0.2	ng/dry g	10.3	0	101	60 - 140%	PASS	2	30	PASS	
PCB027	NA	10.1	0.1	0.2	ng/dry g	10.3	0	98	60 - 140%	PASS	4	30	PASS	
PCB028	NA	14.6	0.023	0.2	ng/dry g	10.3	4.9	94	60 - 140%	PASS	15	30	PASS	
PCB029	NA	10.9	0.1	0.2	ng/dry g	10.3	0	106	60 - 140%	PASS	3	30	PASS	
PCB031	NA	12.9	0.1	0.2	ng/dry g	10.3	2.33	103	60 - 140%	PASS	8	30	PASS	
PCB033	NA	14.1	0.1	0.2	ng/dry g	10.3	1.87	119	60 - 140%	PASS	1	30	PASS	
PCB037	NA	12.2	0.06	0.2	ng/dry g	10.3	0	118	60 - 140%	PASS	1	30	PASS	
PCB044	NA	17.4	0.028	0.2	ng/dry g	10.3	7.45	97	60 - 140%	PASS	15	30	PASS	
PCB049	NA	13.2	0.036	0.2	ng/dry g	10.3	6.63	64	60 - 140%	PASS	28	30	PASS	
PCB052	NA	21.4	0.012	0.2	ng/dry g	10.3	10.7	104	60 - 140%	PASS	4	30	PASS	
PCB056(060)	NA	17.4	0.1	0.2	ng/dry g	10.3	6.94	102	60 - 140%	PASS	7	30	PASS	
PCB066	NA	28.9	0.027	0.2	ng/dry g	10.3	15.4	131	60 - 140%	PASS	20	30	PASS	
PCB070	NA	24.2	0.023	0.2	ng/dry g	10.3	12.1	117	60 - 140%	PASS	10	30	PASS	
PCB074	NA	17.5	0.021	0.2	ng/dry g	10.3	5.44	117	60 - 140%	PASS	7	30	PASS	
PCB077	NA	11.6	0.018	0.2	ng/dry g	10.3	0	113	60 - 140%	PASS	8	30	PASS	
PCB081	NA	11.5	0.084	0.2	ng/dry g	10.3	0	112	60 - 140%	PASS	6	30	PASS	
PCB087	NA	15.9	0.081	0.2	ng/dry g	10.3	4.78	108	60 - 140%	PASS	16	30	PASS	
PCB095	NA	19.2	0.1	0.2	ng/dry g	10.3	9.06	98	60 - 140%	PASS	11	30	PASS	
PCB097	NA	17.8	0.1	0.2	ng/dry g	10.3	4.03	134	60 - 140%	PASS	11	30	PASS	
PCB099	NA	17.2	0.028	0.2	ng/dry g	10.3	6.44	104	60 - 140%	PASS	2	30	PASS	
PCB101	NA	23.3	0.027	0.2	ng/dry g	10.3	12.1	109	60 - 140%	PASS	15	30	PASS	
PCB105	NA	11.2	0.047	0.2	ng/dry g	10.3	3.3	77	60 - 140%	PASS	3	30	PASS	
PCB110	NA	21.6	0.074	0.2	ng/dry g	10.3	10.8	105	60 - 140%	PASS	16	30	PASS	
PCB114	NA	7.83	0.072	0.2	ng/dry g	10.3	0	76	60 - 140%	PASS	14	30	PASS	
PCB118	NA	20	0.069	0.2	ng/dry g	10.3	9.49	102	60 - 140%	PASS	18	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	9.68	0.071	0.2	ng/dry g	10.3	0	94	60 - 140%	PASS	5	30	PASS	
PCB123	NA	8.45	0.018	0.2	ng/dry g	10.3	0	82	60 - 140%	PASS	6	30	PASS	
PCB126	NA	7.72	0.086	0.2	ng/dry g	10.3	0	75	60 - 140%	PASS	4	30	PASS	
PCB128	NA	10.1	0.081	0.2	ng/dry g	10.3	0	98	60 - 140%	PASS	11	30	PASS	
PCB137	NA	9.17	0.1	0.2	ng/dry g	10.3	0	89	60 - 140%	PASS	1	30	PASS	
PCB138	NA	24.1	0.057	0.2	ng/dry g	10.3	13.5	103	60 - 140%	PASS	12	30	PASS	
PCB141	NA	9.96	0.1	0.2	ng/dry g	10.3	1.41	83	60 - 140%	PASS	2	30	PASS	
PCB149	NA	16.9	0.092	0.2	ng/dry g	10.3	7.38	92	60 - 140%	PASS	14	30	PASS	
PCB151	NA	14.6	0.073	0.2	ng/dry g	10.3	2.59	117	60 - 140%	PASS	8	30	PASS	
PCB153	NA	21.8	0.065	0.2	ng/dry g	10.3	11.3	102	60 - 140%	PASS	7	30	PASS	
PCB156	NA	9.34	0.089	0.2	ng/dry g	10.3	0	91	60 - 140%	PASS	3	30	PASS	
PCB157	NA	6.85	0.103	0.2	ng/dry g	10.3	0	67	60 - 140%	PASS	0	30	PASS	
PCB158	NA	9.93	0.074	0.2	ng/dry g	10.3	0	96	60 - 140%	PASS	5	30	PASS	
PCB167	NA	8.41	0.049	0.2	ng/dry g	10.3	0	82	60 - 140%	PASS	1	30	PASS	
PCB168+132	NA	21.8	0.094	0.2	ng/dry g	20.5	2.61	94	60 - 140%	PASS	7	30	PASS	
PCB169	NA	6.92	0.116	0.2	ng/dry g	10.3	0	67	60 - 140%	PASS	7	30	PASS	
PCB170	NA	10.8	0.118	0.25	ng/dry g	10.3	2.01	85	60 - 140%	PASS	4	30	PASS	
PCB174	NA	12.6	0.12	0.25	ng/dry g	10.3	2.65	97	60 - 140%	PASS	7	30	PASS	
PCB177	NA	11.6	0.085	0.25	ng/dry g	10.3	1.75	96	60 - 140%	PASS	2	30	PASS	
PCB180	NA	15.2	0.154	0.25	ng/dry g	10.3	5.67	93	60 - 140%	PASS	1	30	PASS	
PCB183	NA	12.2	0.056	0.25	ng/dry g	10.3	1.86	100	60 - 140%	PASS	3	30	PASS	
PCB187	NA	14.3	0.168	0.25	ng/dry g	10.3	3.97	100	60 - 140%	PASS	3	30	PASS	
PCB189	NA	7.56	0.109	0.25	ng/dry g	10.3	0	73	60 - 140%	PASS	3	30	PASS	
PCB194	NA	9.52	0.164	0.25	ng/dry g	10.3	0	92	60 - 140%	PASS	1	30	PASS	
PCB195	NA	9.85	0.093	0.25	ng/dry g	10.3	0	96	60 - 140%	PASS	11	30	PASS	
PCB199(200)	NA	9.25	0.12	0.25	ng/dry g	10.3	0	90	60 - 140%	PASS	3	30	PASS	
PCB201	NA	7.81	0.104	0.25	ng/dry g	10.3	0	76	60 - 140%	PASS	4	30	PASS	
PCB203	NA	9.26	0.12	0.25	ng/dry g	10.3	0	90	60 - 140%	PASS	2	30	PASS	
PCB206	NA	8.19	0.155	0.25	ng/dry g	10.3	0	80	60 - 140%	PASS	5	30	PASS	
PCB209	NA	7.29	0.12	0.25	ng/dry g	10.3	0	71	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 30-Jan-19		
PCB003	NA	ND	0.1	0.2	ng/dry g					0	30	PASS
PCB005	NA	ND	0.1	0.2	ng/dry g					0	30	PASS
PCB008	NA	ND	0.017	0.2	ng/dry g					0	30	PASS
PCB015	NA	ND	0.1	0.2	ng/dry g					0	30	PASS
PCB018	NA	ND	0.029	0.2	ng/dry g					0	30	PASS
PCB027	NA	ND	0.1	0.2	ng/dry g					0	30	PASS
PCB028	NA	5.02	0.023	0.2	ng/dry g					5	30	PASS
PCB029	NA	ND	0.1	0.2	ng/dry g					0	30	PASS
PCB031	NA	2.63	0.1	0.2	ng/dry g					26	30	PASS
PCB033	NA	1.85	0.1	0.2	ng/dry g					2	30	PASS
PCB037	NA	ND	0.06	0.2	ng/dry g					0	30	PASS
PCB044	NA	7.43	0.028	0.2	ng/dry g					0	30	PASS
PCB049	NA	6.76	0.036	0.2	ng/dry g					4	30	PASS
PCB052	NA	11	0.012	0.2	ng/dry g					6	30	PASS
PCB056(060)	NA	6.8	0.1	0.2	ng/dry g					4	30	PASS
PCB066	NA	15	0.027	0.2	ng/dry g					5	30	PASS
PCB070	NA	12.4	0.023	0.2	ng/dry g					4	30	PASS
PCB074	NA	5.74	0.021	0.2	ng/dry g					11	30	PASS
PCB077	NA	ND	0.018	0.2	ng/dry g					0	30	PASS
PCB081	NA	ND	0.084	0.2	ng/dry g					0	30	PASS
PCB087	NA	4.78	0.081	0.2	ng/dry g					0	30	PASS
PCB095	NA	9.43	0.1	0.2	ng/dry g					8	30	PASS
PCB097	NA	4.04	0.1	0.2	ng/dry g					0	30	PASS
PCB099	NA	6.35	0.028	0.2	ng/dry g					3	30	PASS
PCB101	NA	12.6	0.027	0.2	ng/dry g					7	30	PASS
PCB105	NA	3.39	0.047	0.2	ng/dry g					5	30	PASS
PCB110	NA	11.1	0.074	0.2	ng/dry g					6	30	PASS
PCB114	NA	ND	0.072	0.2	ng/dry g					0	30	PASS
PCB118	NA	9.32	0.069	0.2	ng/dry g					3	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g					0	30 PASS	
PCB123	NA	ND	0.018	0.2	ng/dry g					0	30 PASS	
PCB126	NA	ND	0.086	0.2	ng/dry g					0	30 PASS	
PCB128	NA	ND	0.081	0.2	ng/dry g					0	30 PASS	
PCB137	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB138	NA	13.8	0.057	0.2	ng/dry g					4	30 PASS	
PCB141	NA	1.53	0.1	0.2	ng/dry g					16	30 PASS	
PCB149	NA	7.45	0.092	0.2	ng/dry g					2	30 PASS	
PCB151	NA	2.73	0.073	0.2	ng/dry g					11	30 PASS	
PCB153	NA	11.2	0.065	0.2	ng/dry g					2	30 PASS	
PCB156	NA	ND	0.089	0.2	ng/dry g					0	30 PASS	
PCB157	NA	ND	0.103	0.2	ng/dry g					0	30 PASS	
PCB158	NA	ND	0.074	0.2	ng/dry g					0	30 PASS	
PCB167	NA	ND	0.049	0.2	ng/dry g					0	30 PASS	
PCB168+132	NA	2.52	0.094	0.2	ng/dry g					7	30 PASS	
PCB169	NA	ND	0.116	0.2	ng/dry g					0	30 PASS	
PCB170	NA	1.97	0.118	0.25	ng/dry g					3	30 PASS	
PCB174	NA	2.43	0.12	0.25	ng/dry g					17	30 PASS	
PCB177	NA	1.59	0.085	0.25	ng/dry g					18	30 PASS	
PCB180	NA	5.11	0.154	0.25	ng/dry g					20	30 PASS	
PCB183	NA	1.9	0.056	0.25	ng/dry g					5	30 PASS	
PCB187	NA	3.78	0.168	0.25	ng/dry g					10	30 PASS	
PCB189	NA	ND	0.109	0.25	ng/dry g					0	30 PASS	
PCB194	NA	ND	0.164	0.25	ng/dry g					0	30 PASS	
PCB195	NA	ND	0.093	0.25	ng/dry g					0	30 PASS	
PCB199(200)	NA	ND	0.12	0.25	ng/dry g					0	30 PASS	
PCB201	NA	ND	0.104	0.25	ng/dry g					0	30 PASS	
PCB203	NA	ND	0.12	0.25	ng/dry g					0	30 PASS	
PCB206	NA	ND	0.155	0.25	ng/dry g					0	30 PASS	
PCB209	NA	ND	0.12	0.25	ng/dry g					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
(DFPBDE)	NA	90			% Recovery	100	90	63 - 146%	PASS			
(FTBDE)	NA	90			% Recovery	100	90	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 17-Jan-19		
(DFPBDE)	NA	88			% Recovery	100	0	88	63 - 146%	PASS		
(FTBDE)	NA	87			% Recovery	100	0	87	53 - 138%	PASS		
PBDE017	NA	58.7	0.05	0.1	ng/dry g	50	0	117	60 - 140%	PASS		
PBDE028	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS		
PBDE047	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	51.3	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE066	NA	51.3	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE085	NA	46.6	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS		
PBDE099	NA	45.9	0.05	0.1	ng/dry g	50	0	92	60 - 140%	PASS		
PBDE100	NA	44.8	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS		
PBDE138	NA	42.6	0.05	0.1	ng/dry g	50	0	85	60 - 140%	PASS		
PBDE153	NA	43.7	0.05	0.1	ng/dry g	50	0	87	60 - 140%	PASS		
PBDE154	NA	40.8	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS		
PBDE183	NA	41	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS		
PBDE190	NA	32.4	0.05	0.1	ng/dry g	50	0	65	60 - 140%	PASS		
PBDE209	NA	54.4	0.05	0.1	ng/dry g	250	0	22	60 - 140%	FAIL		Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 17-Jan-19			
(DFPBDE)	NA	102			% Recovery	100	0	102	63 - 146%	PASS	15	30	PASS	
(FTBDE)	NA	89			% Recovery	100	0	89	53 - 138%	PASS	2	30	PASS	
PBDE017	NA	60	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS	3	30	PASS	
PBDE028	NA	63.1	0.05	0.1	ng/dry g	50	0	126	60 - 140%	PASS	5	30	PASS	
PBDE047	NA	57.7	0.05	0.1	ng/dry g	50	0	115	60 - 140%	PASS	8	30	PASS	
PBDE049	NA	56	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	8	30	PASS	
PBDE066	NA	59.8	0.05	0.1	ng/dry g	50	0	120	60 - 140%	PASS	15	30	PASS	
PBDE085	NA	56.9	0.05	0.1	ng/dry g	50	0	114	60 - 140%	PASS	20	30	PASS	
PBDE099	NA	54.4	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	17	30	PASS	
PBDE100	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	16	30	PASS	
PBDE138	NA	54.9	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	26	30	PASS	
PBDE153	NA	52.7	0.05	0.1	ng/dry g	50	0	105	60 - 140%	PASS	19	30	PASS	
PBDE154	NA	50.7	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	21	30	PASS	
PBDE183	NA	52.5	0.05	0.1	ng/dry g	50	0	105	60 - 140%	PASS	25	30	PASS	
PBDE190	NA	43.7	0.05	0.1	ng/dry g	50	0	87	60 - 140%	PASS	29	30	PASS	
PBDE209	NA	127	0.05	0.1	ng/dry g	250	0	51	60 - 140%	FAIL	79	30	FAIL	Q
Sample ID: 20905-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 17-Jan-19			
(DFPBDE)	NA	133			% Recovery	100		133	60 - 140%	PASS				
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS				
PBDE047	NA	2.29	0.05	0.1	ng/dry g	1.72		133	60 - 140%	PASS				
PBDE099	NA	2	0.05	0.1	ng/dry g	2		100	60 - 140%	PASS				
PBDE100	NA	0.374	0.05	0.1	ng/dry g	0.4		94	60 - 140%	PASS				
PBDE153	NA	4.38	0.05	0.1	ng/dry g	6.44		68	60 - 140%	PASS				
PBDE154	NA	0.732	0.05	0.1	ng/dry g	1.06		69	60 - 140%	PASS				
PBDE183	NA	19.8	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS				
PBDE209	NA	62.3	0.05	0.1	ng/dry g	93.5		67	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	98			% Recovery	100	98	63 - 146%	PASS			
(FTBDE)	NA	93			% Recovery	100	93	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 21-Jan-19		
(DFPBDE)	NA	123			% Recovery	100	0	123	63 - 146% PASS			
(FTBDE)	NA	83			% Recovery	100	0	83	53 - 138% PASS			
PBDE017	NA	49.1	0.05	0.1	ng/dry g	50	0	98	60 - 140% PASS			
PBDE028	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140% PASS			
PBDE047	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140% PASS			
PBDE049	NA	53.4	0.05	0.1	ng/dry g	50	0	107	60 - 140% PASS			
PBDE066	NA	49.4	0.05	0.1	ng/dry g	50	0	99	60 - 140% PASS			
PBDE085	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140% PASS			
PBDE099	NA	46.6	0.05	0.1	ng/dry g	50	0	93	60 - 140% PASS			
PBDE100	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140% PASS			
PBDE138	NA	44.1	0.05	0.1	ng/dry g	50	0	88	60 - 140% PASS			
PBDE153	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140% PASS			
PBDE154	NA	47.6	0.05	0.1	ng/dry g	50	0	95	60 - 140% PASS			
PBDE183	NA	42.9	0.05	0.1	ng/dry g	50	0	86	60 - 140% PASS			
PBDE190	NA	33.4	0.05	0.1	ng/dry g	50	0	67	60 - 140% PASS			
PBDE209	NA	55.3	0.05	0.1	ng/dry g	250	0	22	60 - 140% FAIL			Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 21-Jan-19			
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	4	30	PASS	
(FTBDE)	NA	80			% Recovery	100	0	80	53 - 138%	PASS	4	30	PASS	
PBDE017	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS	9	30	PASS	
PBDE028	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PBDE047	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PBDE049	NA	47.8	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	11	30	PASS	
PBDE066	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PBDE085	NA	46.8	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	6	30	PASS	
PBDE099	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	1	30	PASS	
PBDE100	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS	4	30	PASS	
PBDE138	NA	39.6	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	11	30	PASS	
PBDE153	NA	41.4	0.05	0.1	ng/dry g	50	0	83	60 - 140%	PASS	8	30	PASS	
PBDE154	NA	41	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS	15	30	PASS	
PBDE183	NA	39.7	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	8	30	PASS	
PBDE190	NA	30.5	0.05	0.1	ng/dry g	50	0	61	60 - 140%	PASS	9	30	PASS	
PBDE209	NA	41.9	0.05	0.1	ng/dry g	250	0	17	60 - 140%	FAIL	26	30	PASS	Q
Sample ID: 56580-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 21-Jan-19			
(DFPBDE)	NA	90			% Recovery	100		90	60 - 140%	PASS				
(FTBDE)	NA	121			% Recovery	100		121	60 - 140%	PASS				
PBDE047	NA	1.52	0.05	0.1	ng/dry g	1.72		88	60 - 140%	PASS				
PBDE099	NA	1.75	0.05	0.1	ng/dry g	2		88	60 - 140%	PASS				
PBDE100	NA	0.309	0.05	0.1	ng/dry g	0.4		77	60 - 140%	PASS				
PBDE153	NA	4.31	0.05	0.1	ng/dry g	6.44		67	60 - 140%	PASS				
PBDE154	NA	1.04	0.05	0.1	ng/dry g	1.06		98	60 - 140%	PASS				
PBDE183	NA	19.3	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS				
PBDE209	NA	63.4	0.05	0.1	ng/dry g	93.5		68	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**			**Received: 20-Jul-18**	
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 18-Jan-19	
(DFPBDE)	NA	77			% Recovery	100	0	77	27 - 129%	PASS			
(FTBDE)	NA	104			% Recovery	100	0	104	54 - 136%	PASS			
PBDE017	NA	13.1	0.05	0.1	ng/dry g	10.4	0	126	60 - 140%	PASS			
PBDE028	NA	13.6	0.05	0.1	ng/dry g	10.4	0	131	60 - 140%	PASS			
PBDE047	NA	12.2	0.05	0.1	ng/dry g	10.4	0.747	110	60 - 140%	PASS			
PBDE049	NA	11.3	0.05	0.1	ng/dry g	10.4	0	109	60 - 140%	PASS			
PBDE066	NA	11.7	0.05	0.1	ng/dry g	10.4	0	112	60 - 140%	PASS			
PBDE085	NA	8.7	0.05	0.1	ng/dry g	10.4	0	84	60 - 140%	PASS			
PBDE099	NA	8.92	0.05	0.1	ng/dry g	10.4	1.24	74	60 - 140%	PASS			
PBDE100	NA	9.19	0.05	0.1	ng/dry g	10.4	0.251	86	60 - 140%	PASS			
PBDE138	NA	5.67	0.05	0.1	ng/dry g	10.4	0	55	60 - 140%	FAIL			M
PBDE153	NA	6.43	0.05	0.1	ng/dry g	10.4	0.21	60	60 - 140%	PASS			
PBDE154	NA	6.87	0.05	0.1	ng/dry g	10.4	0.358	63	60 - 140%	PASS			
PBDE183	NA	5.24	0.05	0.1	ng/dry g	10.4	0	50	60 - 140%	FAIL			M
PBDE190	NA	3.76	0.05	0.1	ng/dry g	10.4	0	36	60 - 140%	FAIL			M
PBDE209	NA	8.12	0.05	0.1	ng/dry g	52.1	1.63	12	60 - 140%	FAIL			M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 18-Jan-19		
(DFPBDE)	NA	78			% Recovery	100	0	78	27 - 129%	PASS	1	30	PASS	
(FTBDE)	NA	105			% Recovery	100	0	105	54 - 136%	PASS	1	30	PASS	
PBDE017	NA	13	0.05	0.1	ng/dry g	10.3	0	126	60 - 140%	PASS	0	30	PASS	
PBDE028	NA	14.6	0.05	0.1	ng/dry g	10.3	0	142	60 - 140%	PASS	8	30	PASS	
PBDE047	NA	12	0.05	0.1	ng/dry g	10.3	0.747	109	60 - 140%	PASS	1	30	PASS	
PBDE049	NA	12.1	0.05	0.1	ng/dry g	10.3	0	117	60 - 140%	PASS	7	30	PASS	
PBDE066	NA	11	0.05	0.1	ng/dry g	10.3	0	107	60 - 140%	PASS	5	30	PASS	
PBDE085	NA	7.3	0.05	0.1	ng/dry g	10.3	0	71	60 - 140%	PASS	17	30	PASS	
PBDE099	NA	9.08	0.05	0.1	ng/dry g	10.3	1.24	76	60 - 140%	PASS	3	30	PASS	
PBDE100	NA	8.45	0.05	0.1	ng/dry g	10.3	0.251	80	60 - 140%	PASS	7	30	PASS	
PBDE138	NA	5.33	0.05	0.1	ng/dry g	10.3	0	52	60 - 140%	FAIL	6	30	PASS	M
PBDE153	NA	5.95	0.05	0.1	ng/dry g	10.3	0.21	56	60 - 140%	FAIL	7	30	PASS	M
PBDE154	NA	6.73	0.05	0.1	ng/dry g	10.3	0.358	62	60 - 140%	PASS	2	30	PASS	
PBDE183	NA	4.63	0.05	0.1	ng/dry g	10.3	0	45	60 - 140%	FAIL	11	30	PASS	M
PBDE190	NA	2.92	0.05	0.1	ng/dry g	10.3	0	28	60 - 140%	FAIL	25	30	PASS	M
PBDE209	NA	5.37	0.05	0.1	ng/dry g	51.3	1.63	7	60 - 140%	FAIL	53	30	FAIL	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 18-Jan-19			
(DFPBDE)	NA	72			% Recovery	100	72	27 - 129%	PASS		5	30	PASS	
(FTBDE)	NA	102			% Recovery	100	102	54 - 136%	PASS		6	30	PASS	
PBDE017	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE028	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE047	NA	0.738	0.05	0.1	ng/dry g						2	30	PASS	
PBDE049	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE066	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE085	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE099	NA	0.935	0.05	0.1	ng/dry g						49	30	FAIL	NH
PBDE100	NA	0.207	0.05	0.1	ng/dry g						35	30	FAIL	SL
PBDE138	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE153	NA	0.112	0.05	0.1	ng/dry g						93	30	FAIL	SL
PBDE154	NA	0.406	0.05	0.1	ng/dry g						26	30	PASS	
PBDE183	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE190	NA	ND	0.05	0.1	ng/dry g						0	30	PASS	
PBDE209	NA	1.34	0.05	0.1	ng/dry g						36	30	FAIL	NH

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 29-Jan-19	
(d10-Acenaphthene)	NA	76			% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	96			% Recovery	100	96	59 - 121%	PASS			
(d12-Chrysene)	NA	129			% Recovery	100	129	52 - 144%	PASS			
(d12-Perylene)	NA	89			% Recovery	100	89	50 - 150%	PASS			
(d8-Naphthalene)	NA	54			% Recovery	100	54	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	80			% Recovery	100	0	80	50 - 112%	PASS		
(d10-Phenanthrene)	NA	102			% Recovery	100	0	102	59 - 121%	PASS		
(d12-Chrysene)	NA	142			% Recovery	100	0	142	52 - 144%	PASS		
(d12-Perylene)	NA	93			% Recovery	100	0	93	50 - 150%	PASS		
(d8-Naphthalene)	NA	52			% Recovery	100	0	52	31 - 106%	PASS		
1,6,7-Trimethylnapthalene	NA	416	0.059	0.5	ng/dry g	500	0	83	60 - 140%	PASS		
1-Methylnaphthalene	NA	294	0.084	0.5	ng/dry g	500	0	59	60 - 140%	FAIL		Q
1-Methylphenanthrene	NA	613	0.076	0.5	ng/dry g	500	0	123	60 - 140%	PASS		
2,6-Dimethylnaphthalene	NA	348	0.065	0.5	ng/dry g	500	0	70	60 - 140%	PASS		
2-Methylnaphthalene	NA	303	0.106	0.5	ng/dry g	500	0	61	60 - 140%	PASS		
Acenaphthene	NA	349	0.078	0.5	ng/dry g	500	0	70	60 - 140%	PASS		
Acenaphthylene	NA	366	0.058	0.5	ng/dry g	500	0	73	60 - 140%	PASS		
Anthracene	NA	417	0.046	0.5	ng/dry g	500	0	83	60 - 140%	PASS		
Benz[a]anthracene	NA	856	0.107	0.5	ng/dry g	500	0	171	60 - 140%	FAIL		
Benzo[a]pyrene	NA	462	0.106	0.5	ng/dry g	500	0	92	60 - 140%	PASS		
Benzo[b]fluoranthene	NA	657	0.063	0.5	ng/dry g	500	0	131	60 - 140%	PASS		
Benzo[e]pyrene	NA	548	0.098	0.5	ng/dry g	500	0	110	60 - 140%	PASS		
Benzo[g,h,i]perylene	NA	432	0.093	0.5	ng/dry g	500	0	86	60 - 140%	PASS		
Benzo[k]fluoranthene	NA	516	0.111	0.5	ng/dry g	500	0	103	60 - 140%	PASS		
Biphenyl	NA	321	0.092	0.5	ng/dry g	500	0	64	60 - 140%	PASS		
Chrysene	NA	558	0.067	0.5	ng/dry g	500	0	112	60 - 140%	PASS		
Dibenz[a,h]anthracene	NA	620	0.106	0.5	ng/dry g	500	0	124	60 - 140%	PASS		
Dibenzothiophene	NA	466	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS		
Fluoranthene	NA	648	0.035	0.5	ng/dry g	500	0	130	60 - 140%	PASS		
Fluorene	NA	392	0.068	0.5	ng/dry g	500	0	78	60 - 140%	PASS		
Indeno[1,2,3-cd]pyrene	NA	694	0.087	0.5	ng/dry g	500	0	139	60 - 140%	PASS		
Naphthalene	NA	241	0.187	0.5	ng/dry g	500	0	48	60 - 140%	FAIL		Q
Perylene	NA	409	0.114	0.5	ng/dry g	500	0	82	60 - 140%	PASS		
Phenanthrene	NA	441	0.074	0.5	ng/dry g	500	0	88	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	635	0.048	0.5	ng/dry g	500	0	127	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	77			% Recovery	100	0	77	50 - 112%	PASS	4	30	PASS	
(d10-Phenanthrene)	NA	103			% Recovery	100	0	103	59 - 121%	PASS	1	30	PASS	
(d12-Chrysene)	NA	142			% Recovery	100	0	142	52 - 144%	PASS	0	30	PASS	
(d12-Perylene)	NA	96			% Recovery	100	0	96	50 - 150%	PASS	3	30	PASS	
(d8-Naphthalene)	NA	46			% Recovery	100	0	46	31 - 106%	PASS	12	30	PASS	
1,6,7-Trimethylnapthalene	NA	412	0.059	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
1-Methylnaphthalene	NA	271	0.084	0.5	ng/dry g	500	0	54	60 - 140%	FAIL	9	30	PASS	Q
1-Methylphenanthrene	NA	616	0.076	0.5	ng/dry g	500	0	123	60 - 140%	PASS	0	30	PASS	
2,6-Dimethylnaphthalene	NA	326	0.065	0.5	ng/dry g	500	0	65	60 - 140%	PASS	7	30	PASS	
2-Methylnaphthalene	NA	275	0.106	0.5	ng/dry g	500	0	55	60 - 140%	FAIL	10	30	PASS	Q
Acenaphthene	NA	336	0.078	0.5	ng/dry g	500	0	67	60 - 140%	PASS	4	30	PASS	
Acenaphthylene	NA	349	0.058	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Anthracene	NA	421	0.046	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
Benz[a]anthracene	NA	855	0.107	0.5	ng/dry g	500	0	171	60 - 140%	FAIL	0	30	PASS	
Benzo[a]pyrene	NA	478	0.106	0.5	ng/dry g	500	0	96	60 - 140%	PASS	4	30	PASS	
Benzo[b]fluoranthene	NA	675	0.063	0.5	ng/dry g	500	0	135	60 - 140%	PASS	3	30	PASS	
Benzo[e]pyrene	NA	560	0.098	0.5	ng/dry g	500	0	112	60 - 140%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	NA	450	0.093	0.5	ng/dry g	500	0	90	60 - 140%	PASS	5	30	PASS	
Benzo[k]fluoranthene	NA	526	0.111	0.5	ng/dry g	500	0	105	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	299	0.092	0.5	ng/dry g	500	0	60	60 - 140%	PASS	6	30	PASS	
Chrysene	NA	570	0.067	0.5	ng/dry g	500	0	114	60 - 140%	PASS	2	30	PASS	
Dibenz[a,h]anthracene	NA	668	0.106	0.5	ng/dry g	500	0	134	60 - 140%	PASS	8	30	PASS	
Dibenzothiophene	NA	467	0.2	0.5	ng/dry g	500	0	93	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	654	0.035	0.5	ng/dry g	500	0	131	60 - 140%	PASS	1	30	PASS	
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140%	PASS	1	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	718	0.087	0.5	ng/dry g	500	0	144	60 - 140%	FAIL	4	30	PASS	Q
Naphthalene	NA	212	0.187	0.5	ng/dry g	500	0	42	60 - 140%	FAIL	13	30	PASS	Q
Perylene	NA	434	0.114	0.5	ng/dry g	500	0	87	60 - 140%	PASS	6	30	PASS	
Phenanthrene	NA	444	0.074	0.5	ng/dry g	500	0	89	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	648	0.048	0.5	ng/dry g	500	0	130	60 - 140%	PASS	2	30	PASS	
Sample ID: 20905-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	101			% Recovery	100		101	44 - 144%	PASS				
(d10-Phenanthrene)	NA	106			% Recovery	100		106	60 - 134%	PASS				
(d12-Chrysene)	NA	60			% Recovery	100		60	27 - 158%	PASS				
(d12-Perylene)	NA	95			% Recovery	100		95	17 - 160%	PASS				
(d8-Naphthalene)	NA	68			% Recovery	100		68	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.486	0.106	0.5	ug/dry g	740		66	60 - 140%	PASS				
Benz[a]anthracene	NA	3.18	0.107	0.5	ug/dry g	4720		67	60 - 140%	PASS				
Benzo[a]pyrene	NA	3.32	0.106	0.5	ug/dry g	4300		77	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	2.7	0.063	0.5	ug/dry g	3870		70	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.85	0.098	0.5	ug/dry g	3280		117	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.82	0.093	0.5	ug/dry g	2840		99	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	4.54	0.111	0.5	ug/dry g	4390		103	60 - 140%	PASS				
Chrysene	NA	4.38	0.067	0.5	ug/dry g	4860		90	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.805	0.106	0.5	ug/dry g	924		87	60 - 140%	PASS				
Fluoranthene	NA	6.74	0.035	0.5	ug/dry g	8920		76	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	1.98	0.087	0.5	ug/dry g	2780		71	60 - 140%	PASS				
Perylene	NA	0.729	0.114	0.5	ug/dry g	1170		62	60 - 140%	PASS				
Phenanthrene	NA	3.79	0.074	0.5	ug/dry g	5270		72	60 - 140%	PASS				
Pyrene	NA	6.95	0.048	0.5	ug/dry g	9700		72	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(d10-Acenaphthene)	NA	66			% Recovery	100	66	50 - 112%	PASS			
(d10-Phenanthrene)	NA	102			% Recovery	100	102	59 - 121%	PASS			
(d12-Chrysene)	NA	144			% Recovery	100	144	52 - 144%	PASS			
(d12-Perylene)	NA	92			% Recovery	100	92	50 - 150%	PASS			
(d8-Naphthalene)	NA	43			% Recovery	100	43	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	82			% Recovery	100	0	82	50 - 112% PASS			
(d10-Phenanthrene)	NA	105			% Recovery	100	0	105	59 - 121% PASS			
(d12-Chrysene)	NA	144			% Recovery	100	0	144	52 - 144% PASS			
(d12-Perylene)	NA	94			% Recovery	100	0	94	50 - 150% PASS			
(d8-Naphthalene)	NA	59			% Recovery	100	0	59	31 - 106% PASS			
1,6,7-Trimethylnapthalene	NA	400	0.059	0.5	ng/dry g	500	0	80	60 - 140% PASS			
1-Methylnaphthalene	NA	297	0.084	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	626	0.076	0.5	ng/dry g	500	0	125	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	348	0.065	0.5	ng/dry g	500	0	70	60 - 140% PASS			
2-Methylnaphthalene	NA	314	0.106	0.5	ng/dry g	500	0	63	60 - 140% PASS			
Acenaphthene	NA	336	0.078	0.5	ng/dry g	500	0	67	60 - 140% PASS			
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140% PASS			
Anthracene	NA	411	0.046	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benz[a]anthracene	NA	982	0.107	0.5	ng/dry g	500	0	196	60 - 140% FAIL			
Benzo[a]pyrene	NA	432	0.106	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Benzo[b]fluoranthene	NA	733	0.063	0.5	ng/dry g	500	0	147	60 - 140% FAIL			Q
Benzo[e]pyrene	NA	519	0.098	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	410	0.093	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benzo[k]fluoranthene	NA	588	0.111	0.5	ng/dry g	500	0	118	60 - 140% PASS			
Biphenyl	NA	320	0.092	0.5	ng/dry g	500	0	64	60 - 140% PASS			
Chrysene	NA	518	0.067	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	711	0.106	0.5	ng/dry g	500	0	142	60 - 140% FAIL			Q
Dibenzothiophene	NA	460	0.2	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Fluoranthene	NA	655	0.035	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	780	0.087	0.5	ng/dry g	500	0	156	60 - 140% FAIL			R
Naphthalene	NA	256	0.187	0.5	ng/dry g	500	0	51	60 - 140% FAIL			Q
Perylene	NA	414	0.114	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Phenanthrene	NA	420	0.074	0.5	ng/dry g	500	0	84	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	638	0.048	0.5	ng/dry g	500	0	128	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19			
(d10-Acenaphthene)	NA	81			% Recovery	100	0	81	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	104			% Recovery	100	0	104	59 - 121%	PASS	1	30	PASS	
(d12-Chrysene)	NA	149			% Recovery	100	0	149	52 - 144%	FAIL	3	30	PASS	
(d12-Perylene)	NA	90			% Recovery	100	0	90	50 - 150%	PASS	4	30	PASS	
(d8-Naphthalene)	NA	56			% Recovery	100	0	56	31 - 106%	PASS	5	30	PASS	
1,6,7-Trimethylnapthalene	NA	402	0.059	0.5	ng/dry g	500	0	80	60 - 140%	PASS	0	30	PASS	
1-Methylnaphthalene	NA	286	0.084	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	3	30	PASS	Q
1-Methylphenanthrene	NA	635	0.076	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
2,6-Dimethylnaphthalene	NA	342	0.065	0.5	ng/dry g	500	0	68	60 - 140%	PASS	3	30	PASS	
2-Methylnaphthalene	NA	301	0.106	0.5	ng/dry g	500	0	60	60 - 140%	PASS	5	30	PASS	
Acenaphthene	NA	332	0.078	0.5	ng/dry g	500	0	66	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140%	PASS	0	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	1	30	PASS	
Benz[a]anthracene	NA	999	0.107	0.5	ng/dry g	500	0	200	60 - 140%	FAIL	2	30	PASS	
Benzo[a]pyrene	NA	420	0.106	0.5	ng/dry g	500	0	84	60 - 140%	PASS	2	30	PASS	
Benzo[b]fluoranthene	NA	740	0.063	0.5	ng/dry g	500	0	148	60 - 140%	FAIL	1	30	PASS	Q
Benzo[e]pyrene	NA	528	0.098	0.5	ng/dry g	500	0	106	60 - 140%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	NA	409	0.093	0.5	ng/dry g	500	0	82	60 - 140%	PASS	0	30	PASS	
Benzo[k]fluoranthene	NA	582	0.111	0.5	ng/dry g	500	0	116	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	311	0.092	0.5	ng/dry g	500	0	62	60 - 140%	PASS	3	30	PASS	
Chrysene	NA	541	0.067	0.5	ng/dry g	500	0	108	60 - 140%	PASS	4	30	PASS	
Dibenz[a,h]anthracene	NA	734	0.106	0.5	ng/dry g	500	0	147	60 - 140%	FAIL	3	30	PASS	Q
Dibenzothiophene	NA	454	0.2	0.5	ng/dry g	500	0	91	60 - 140%	PASS	1	30	PASS	
Fluoranthene	NA	652	0.035	0.5	ng/dry g	500	0	130	60 - 140%	PASS	1	30	PASS	
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140%	PASS	0	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	816	0.087	0.5	ng/dry g	500	0	163	60 - 140%	FAIL	4	30	PASS	
Naphthalene	NA	243	0.187	0.5	ng/dry g	500	0	49	60 - 140%	FAIL	4	30	PASS	Q
Perylene	NA	420	0.114	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
Phenanthrene	NA	417	0.074	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	636	0.048	0.5	ng/dry g	500	0	127	60 - 140%	PASS	1	30	PASS	
Sample ID: 56580-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	93			% Recovery	100		93	44 - 144%	PASS				
(d10-Phenanthrene)	NA	106			% Recovery	100		106	60 - 134%	PASS				
(d12-Chrysene)	NA	74			% Recovery	100		74	27 - 158%	PASS				
(d12-Perylene)	NA	80			% Recovery	100		80	17 - 160%	PASS				
(d8-Naphthalene)	NA	58			% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.454	0.106	0.5	ug/dry g	740		61	60 - 140%	PASS				
Benz[a]anthracene	NA	2.87	0.107	0.5	ug/dry g	4720		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	3.04	0.106	0.5	ug/dry g	4300		71	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	2.55	0.063	0.5	ug/dry g	3870		66	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.87	0.098	0.5	ug/dry g	3280		118	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.79	0.093	0.5	ug/dry g	2840		98	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4390		41	60 - 140%	FAIL				1
Chrysene	NA	3.85	0.067	0.5	ug/dry g	4860		79	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	1.07	0.106	0.5	ug/dry g	924		116	60 - 140%	PASS				
Fluoranthene	NA	6.5	0.035	0.5	ug/dry g	8920		73	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2780		90	60 - 140%	PASS				
Perylene	NA	0.739	0.114	0.5	ug/dry g	1170		63	60 - 140%	PASS				
Phenanthrene	NA	3.47	0.074	0.5	ug/dry g	5270		66	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9700		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18**	**9:20**		**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	86			% Recovery	100	0	86	23 - 117%	PASS		
(d10-Phenanthrene)	NA	103			% Recovery	100	0	103	24 - 127%	PASS		
(d12-Chrysene)	NA	80			% Recovery	100	0	80	22 - 148%	PASS		
(d12-Perylene)	NA	94			% Recovery	100	0	94	50 - 150%	PASS		
(d8-Naphthalene)	NA	48			% Recovery	100	0	48	8 - 105%	PASS		
1,6,7-Trimethylnapthalene	NA	102	0.059	0.5	ng/dry g	104	3.09	95	60 - 140%	PASS		
1-Methylnaphthalene	NA	65.6	0.084	0.5	ng/dry g	104	2.53	61	60 - 140%	PASS		
1-Methylphenanthrene	NA	140	0.076	0.5	ng/dry g	104	9.39	126	60 - 140%	PASS		
2,6-Dimethylnaphthalene	NA	83.3	0.065	0.5	ng/dry g	104	2.75	77	60 - 140%	PASS		
2-Methylnaphthalene	NA	70	0.106	0.5	ng/dry g	104	5.62	62	60 - 140%	PASS		
Acenaphthene	NA	80.9	0.078	0.5	ng/dry g	104	2.55	75	60 - 140%	PASS		
Acenaphthylene	NA	105	0.058	0.5	ng/dry g	104	5.73	95	60 - 140%	PASS		
Anthracene	NA	115	0.046	0.5	ng/dry g	104	22.3	89	60 - 140%	PASS		
Benz[a]anthracene	NA	204	0.107	0.5	ng/dry g	104	122	79	60 - 140%	PASS		
Benzo[a]pyrene	NA	304	0.106	0.5	ng/dry g	104	189	111	60 - 140%	PASS		
Benzo[b]fluoranthene	NA	525	0.063	0.5	ng/dry g	104	323	194	60 - 140%	FAIL		SH
Benzo[e]pyrene	NA	308	0.098	0.5	ng/dry g	104	175	128	60 - 140%	PASS		
Benzo[g,h,i]perylene	NA	288	0.093	0.5	ng/dry g	104	181	103	60 - 140%	PASS		
Benzo[k]fluoranthene	NA	370	0.111	0.5	ng/dry g	104	241	124	60 - 140%	PASS		
Biphenyl	NA	70	0.092	0.5	ng/dry g	104	1.38	66	60 - 140%	PASS		
Chrysene	NA	158	0.067	0.5	ng/dry g	104	94.7	61	60 - 140%	PASS		
Dibenz[a,h]anthracene	NA	204	0.106	0.5	ng/dry g	104	88.6	111	60 - 140%	PASS		
Dibenzothiophene	NA	105	0.2	0.5	ng/dry g	104	3.68	97	60 - 140%	PASS		
Fluoranthene	NA	365	0.035	0.5	ng/dry g	104	197	162	60 - 140%	PASS		Q
Fluorene	NA	96.7	0.068	0.5	ng/dry g	104	4.42	89	60 - 140%	PASS		
Indeno[1,2,3-cd]pyrene	NA	349	0.087	0.5	ng/dry g	104	258	88	60 - 140%	PASS		
Naphthalene	NA	51.6	0.187	0.5	ng/dry g	104	6.44	43	60 - 140%	FAIL		Q
Perylene	NA	130	0.114	0.5	ng/dry g	104	37	89	60 - 140%	PASS		
Phenanthrene	NA	157	0.074	0.5	ng/dry g	104	54.5	99	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	323	0.048	0.5	ng/dry g	104	181	137	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 29-Jan-19		
(d10-Acenaphthene)	NA	91			% Recovery	100	0	91	23 - 117%	PASS	6	30	PASS	
(d10-Phenanthrene)	NA	104			% Recovery	100	0	104	24 - 127%	PASS	1	30	PASS	
(d12-Chrysene)	NA	89			% Recovery	100	0	89	22 - 148%	PASS	11	30	PASS	
(d12-Perylene)	NA	92			% Recovery	100	0	92	50 - 150%	PASS	2	30	PASS	
(d8-Naphthalene)	NA	61			% Recovery	100	0	61	8 - 105%	PASS	24	30	PASS	
1,6,7-Trimethylnapthalene	NA	103	0.059	0.5	ng/dry g	103	3.09	97	60 - 140%	PASS	2	30	PASS	
1-Methylnaphthalene	NA	73.4	0.084	0.5	ng/dry g	103	2.53	69	60 - 140%	PASS	12	30	PASS	
1-Methylphenanthrene	NA	139	0.076	0.5	ng/dry g	103	9.39	126	60 - 140%	PASS	0	30	PASS	
2,6-Dimethylnaphthalene	NA	87.4	0.065	0.5	ng/dry g	103	2.75	82	60 - 140%	PASS	6	30	PASS	
2-Methylnaphthalene	NA	79.1	0.106	0.5	ng/dry g	103	5.62	71	60 - 140%	PASS	14	30	PASS	
Acenaphthene	NA	83.5	0.078	0.5	ng/dry g	103	2.55	79	60 - 140%	PASS	5	30	PASS	
Acenaphthylene	NA	111	0.058	0.5	ng/dry g	103	5.73	102	60 - 140%	PASS	7	30	PASS	
Anthracene	NA	114	0.046	0.5	ng/dry g	103	22.3	89	60 - 140%	PASS	0	30	PASS	
Benz[a]anthracene	NA	216	0.107	0.5	ng/dry g	103	122	91	60 - 140%	PASS	14	30	PASS	
Benzo[a]pyrene	NA	300	0.106	0.5	ng/dry g	103	189	108	60 - 140%	PASS	3	30	PASS	
Benzo[b]fluoranthene	NA	512	0.063	0.5	ng/dry g	103	323	183	60 - 140%	FAIL	6	30	PASS	SH
Benzo[e]pyrene	NA	302	0.098	0.5	ng/dry g	103	175	123	60 - 140%	PASS	4	30	PASS	
Benzo[g,h,i]perylene	NA	281	0.093	0.5	ng/dry g	103	181	97	60 - 140%	PASS	6	30	PASS	
Benzo[k]fluoranthene	NA	373	0.111	0.5	ng/dry g	103	241	128	60 - 140%	PASS	3	30	PASS	
Biphenyl	NA	75.4	0.092	0.5	ng/dry g	103	1.38	72	60 - 140%	PASS	9	30	PASS	
Chrysene	NA	171	0.067	0.5	ng/dry g	103	94.7	74	60 - 140%	PASS	19	30	PASS	
Dibenz[a,h]anthracene	NA	200	0.106	0.5	ng/dry g	103	88.6	108	60 - 140%	PASS	3	30	PASS	
Dibenzothiophene	NA	104	0.2	0.5	ng/dry g	103	3.68	97	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	339	0.035	0.5	ng/dry g	103	197	138	60 - 140%	PASS	16	30	PASS	
Fluorene	NA	98.1	0.068	0.5	ng/dry g	103	4.42	91	60 - 140%	PASS	2	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	341	0.087	0.5	ng/dry g	103	258	81	60 - 140%	PASS	8	30	PASS	
Naphthalene	NA	64.8	0.187	0.5	ng/dry g	103	6.44	57	60 - 140%	FAIL	28	30	PASS	Q
Perylene	NA	129	0.114	0.5	ng/dry g	103	37	89	60 - 140%	PASS	0	30	PASS	
Phenanthrene	NA	146	0.074	0.5	ng/dry g	103	54.5	89	60 - 140%	PASS	11	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	310	0.048	0.5	ng/dry g	103	181	125	60 - 140%	PASS	9	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**				**Received: 20-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21010		Prepared: 04-Jan-19				Analyzed: 30-Jan-19			
(d10-Acenaphthene)	NA	75			% Recovery	100	75	23 - 117%	PASS		3	30	PASS	
(d10-Phenanthrene)	NA	89			% Recovery	100	89	24 - 127%	PASS		4	30	PASS	
(d12-Chrysene)	NA	62			% Recovery	100	62	22 - 148%	PASS		28	30	PASS	
(d12-Perylene)	NA	81			% Recovery	100	81	50 - 150%	PASS		7	30	PASS	
(d8-Naphthalene)	NA	48			% Recovery	100	48	8 - 105%	PASS		0	30	PASS	
1,6,7-Trimethylnapthalene	NA	3.16	0.059	0.5	ng/dry g						4	30	PASS	
1-Methylnaphthalene	NA	2.94	0.084	0.5	ng/dry g						32	30	FAIL	NH
1-Methylphenanthrene	NA	9.2	0.076	0.5	ng/dry g						4	30	PASS	
2,6-Dimethylnaphthalene	NA	2.97	0.065	0.5	ng/dry g						16	30	PASS	
2-Methylnaphthalene	NA	6.35	0.106	0.5	ng/dry g						26	30	PASS	Q
Acenaphthene	NA	2.6	0.078	0.5	ng/dry g						4	30	PASS	
Acenaphthylene	NA	5.28	0.058	0.5	ng/dry g						16	30	PASS	
Anthracene	NA	24.2	0.046	0.5	ng/dry g						17	30	PASS	
Benz[a]anthracene	NA	114	0.107	0.5	ng/dry g						12	30	PASS	
Benzo[a]pyrene	NA	190	0.106	0.5	ng/dry g						1	30	PASS	
Benzo[b]fluoranthene	NA	329	0.063	0.5	ng/dry g						4	30	PASS	
Benzo[e]pyrene	NA	178	0.098	0.5	ng/dry g						3	30	PASS	
Benzo[g,h,i]perylene	NA	185	0.093	0.5	ng/dry g						4	30	PASS	
Benzo[k]fluoranthene	NA	240	0.111	0.5	ng/dry g						1	30	PASS	
Biphenyl	NA	1.51	0.092	0.5	ng/dry g						20	30	PASS	
Chrysene	NA	84.4	0.067	0.5	ng/dry g						22	30	PASS	
Dibenz[a,h]anthracene	NA	88.7	0.106	0.5	ng/dry g						0	30	PASS	
Dibenzothiophene	NA	3.77	0.2	0.5	ng/dry g						5	30	PASS	
Fluoranthene	NA	192	0.035	0.5	ng/dry g						6	30	PASS	
Fluorene	NA	4.64	0.068	0.5	ng/dry g						10	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	262	0.087	0.5	ng/dry g						3	30	PASS	
Naphthalene	NA	6.98	0.187	0.5	ng/dry g						17	30	PASS	
Perylene	NA	36.9	0.114	0.5	ng/dry g						1	30	PASS	
Phenanthrene	NA	55.9	0.074	0.5	ng/dry g						5	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	174	0.048	0.5	ng/dry g					8	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 21-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 20904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 22-Jan-19		
Allethrin	NA	514	0.28	0.5	ng/dry g	500	0	103	60 - 140%		PASS	
Bifenthrin	NA	467	0.22	0.5	ng/dry g	500	0	93	60 - 140%		PASS	
Cyfluthrin	NA	430	0.25	0.5	ng/dry g	500	0	86	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	477	0.23	0.5	ng/dry g	500	0	95	60 - 140%		PASS	
Cypermethrin	NA	410	0.25	0.5	ng/dry g	500	0	82	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	547	0.21	0.5	ng/dry g	500	0	109	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140%		PASS	
Esfenvalerate	NA	387	0.25	0.5	ng/dry g	500	0	77	60 - 140%		PASS	
Fenvalerate	NA	398	0.25	0.5	ng/dry g	500	0	80	60 - 140%		PASS	
Fluvalinate	NA	389	0.23	0.5	ng/dry g	500	0	78	60 - 140%		PASS	
Permethrin, cis-	NA	129	0.17	0.5	ng/dry g	134	0	96	60 - 140%		PASS	
Permethrin, trans-	NA	337	0.22	0.5	ng/dry g	358	0	94	60 - 140%		PASS	
Prallethrin	NA	352	0.28	0.5	ng/dry g	500	0	70	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 20904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21010			Prepared: 04-Jan-19			Analyzed: 22-Jan-19		
Allethrin	NA	520	0.28	0.5	ng/dry g	500	0	104	60 - 140%	PASS	1	30	PASS
Bifenthrin	NA	470	0.22	0.5	ng/dry g	500	0	94	60 - 140%	PASS	1	30	PASS
Cyfluthrin	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS
Cyhalothrin, Total Lambda	NA	493	0.23	0.5	ng/dry g	500	0	99	60 - 140%	PASS	4	30	PASS
Cypermethrin	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	2	30	PASS
Danitol (Fenpropathrin)	NA	572	0.21	0.5	ng/dry g	500	0	114	60 - 140%	PASS	4	30	PASS
Deltamethrin/Tralomethrin	NA	406	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS	5	30	PASS
Esfenvalerate	NA	408	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	6	30	PASS
Fenvalerate	NA	420	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	5	30	PASS
Fluvalinate	NA	403	0.23	0.5	ng/dry g	500	0	81	60 - 140%	PASS	4	30	PASS
Permethrin, cis-	NA	131	0.17	0.5	ng/dry g	134	0	98	60 - 140%	PASS	2	30	PASS
Permethrin, trans-	NA	345	0.22	0.5	ng/dry g	358	0	96	60 - 140%	PASS	2	30	PASS
Prallethrin	NA	370	0.28	0.5	ng/dry g	500	0	74	60 - 140%	PASS	6	30	PASS
Sample ID: 56578-B1	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 25-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g								
Bifenthrin	NA	ND	0.22	0.5	ng/dry g								
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g								
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g								
Cypermethrin	NA	ND	0.25	0.5	ng/dry g								
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g								
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g								
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fluvalinate	NA	ND	0.23	0.5	ng/dry g								
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g								
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g								
Prallethrin	NA	ND	0.28	0.5	ng/dry g								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56578-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19					Analyzed: 26-Jan-19		
Allethrin	NA	623	0.28	0.5	ng/dry g	500	0	125	60 - 140%	PASS				
Bifenthrin	NA	514	0.22	0.5	ng/dry g	500	0	103	60 - 140%	PASS				
Cyfluthrin	NA	554	0.25	0.5	ng/dry g	500	0	111	60 - 140%	PASS				
Cyhalothrin, Total Lambda	NA	590	0.23	0.5	ng/dry g	500	0	118	60 - 140%	PASS				
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%	PASS				
Danitol (Fenpropathrin)	NA	564	0.21	0.5	ng/dry g	500	0	113	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	466	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS				
Esfenvalerate	NA	502	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS				
Fenvalerate	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS				
Fluvalinate	NA	489	0.23	0.5	ng/dry g	500	0	98	60 - 140%	PASS				
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%	PASS				
Permethrin, trans-	NA	409	0.22	0.5	ng/dry g	358	0	114	60 - 140%	PASS				
Prallethrin	NA	574	0.28	0.5	ng/dry g	500	0	115	60 - 140%	PASS				
Sample ID: 56578-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19					Analyzed: 26-Jan-19		
Allethrin	NA	626	0.28	0.5	ng/dry g	500	0	125	60 - 140%	PASS	0	30	PASS	
Bifenthrin	NA	548	0.22	0.5	ng/dry g	500	0	110	60 - 140%	PASS	7	30	PASS	
Cyfluthrin	NA	547	0.25	0.5	ng/dry g	500	0	109	60 - 140%	PASS	2	30	PASS	
Cyhalothrin, Total Lambda	NA	639	0.23	0.5	ng/dry g	500	0	128	60 - 140%	PASS	8	30	PASS	
Cypermethrin	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	4	30	PASS	
Danitol (Fenpropathrin)	NA	626	0.21	0.5	ng/dry g	500	0	125	60 - 140%	PASS	10	30	PASS	
Deltamethrin/Tralomethrin	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	3	30	PASS	
Esfenvalerate	NA	464	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	7	30	PASS	
Fenvalerate	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	9	30	PASS	
Fluvalinate	NA	464	0.23	0.5	ng/dry g	500	0	93	60 - 140%	PASS	5	30	PASS	
Permethrin, cis-	NA	152	0.17	0.5	ng/dry g	134	0	113	60 - 140%	PASS	1	30	PASS	
Permethrin, trans-	NA	401	0.22	0.5	ng/dry g	358	0	112	60 - 140%	PASS	2	30	PASS	
Prallethrin	NA	610	0.28	0.5	ng/dry g	500	0	122	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56583-MS1	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 22-Jan-19		
Allethrin	NA	103	0.28	0.5	ng/dry g	104	0	99	60 - 140%	PASS				
Bifenthrin	NA	148	0.22	0.5	ng/dry g	104	6.47	136	60 - 140%	PASS				
Cyfluthrin	NA	126	0.25	0.5	ng/dry g	104	0	121	60 - 140%	PASS				
Cyhalothrin, Total Lambda	NA	176	0.23	0.5	ng/dry g	104	0	169	60 - 140%	FAIL				M
Cypermethrin	NA	132	0.25	0.5	ng/dry g	104	0	127	60 - 140%	PASS				
Danitol (Fenpropathrin)	NA	144	0.21	0.5	ng/dry g	104	1.39	137	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	38.1	0.25	0.5	ng/dry g	104	0	37	60 - 140%	FAIL				M
Esfenvalerate	NA	84.3	0.25	0.5	ng/dry g	104	0	81	60 - 140%	PASS				
Fenvalerate	NA	112	0.25	0.5	ng/dry g	104	0	108	60 - 140%	PASS				
Fluvalinate	NA	94.9	0.23	0.5	ng/dry g	104	0	91	60 - 140%	PASS				
Permethrin, cis-	NA	40.1	0.17	0.5	ng/dry g	27.8	4.14	129	60 - 140%	PASS				
Permethrin, trans-	NA	101	0.22	0.5	ng/dry g	74.6	11.2	120	60 - 140%	PASS				
Prallethrin	NA	39.2	0.28	0.5	ng/dry g	104	0	38	60 - 140%	FAIL				M
Sample ID: 56583-MS2	**B18-10076**				**Matrix: Sediment**			**Sampled: 18-Jul-18**	**9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21010			Prepared: 04-Jan-19				Analyzed: 22-Jan-19		
Allethrin	NA	109	0.28	0.5	ng/dry g	103	0	106	60 - 140%	PASS	7	30	PASS	
Bifenthrin	NA	147	0.22	0.5	ng/dry g	103	6.47	136	60 - 140%	PASS	0	30	PASS	
Cyfluthrin	NA	123	0.25	0.5	ng/dry g	103	0	119	60 - 140%	PASS	2	30	PASS	
Cyhalothrin, Total Lambda	NA	170	0.23	0.5	ng/dry g	103	0	165	60 - 140%	FAIL	2	30	PASS	M
Cypermethrin	NA	125	0.25	0.5	ng/dry g	103	0	121	60 - 140%	PASS	5	30	PASS	
Danitol (Fenpropathrin)	NA	137	0.21	0.5	ng/dry g	103	1.39	132	60 - 140%	PASS	4	30	PASS	
Deltamethrin/Tralomethrin	NA	44.9	0.25	0.5	ng/dry g	103	0	44	60 - 140%	FAIL	17	30	PASS	M
Esfenvalerate	NA	79.2	0.25	0.5	ng/dry g	103	0	77	60 - 140%	PASS	5	30	PASS	
Fenvalerate	NA	102	0.25	0.5	ng/dry g	103	0	99	60 - 140%	PASS	9	30	PASS	
Fluvalinate	NA	94.2	0.23	0.5	ng/dry g	103	0	91	60 - 140%	PASS	0	30	PASS	
Permethrin, cis-	NA	38.7	0.17	0.5	ng/dry g	27.4	4.14	126	60 - 140%	PASS	2	30	PASS	
Permethrin, trans-	NA	97.1	0.22	0.5	ng/dry g	73.5	11.2	117	60 - 140%	PASS	3	30	PASS	
Prallethrin	NA	39.6	0.28	0.5	ng/dry g	103	0	38	60 - 140%	FAIL	0	30	PASS	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56583-R2	**B18-10076**				**Matrix: Sediment**		**Sampled: 18-Jul-18 9:20**			**Received: 20-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21010		Prepared: 04-Jan-19			Analyzed: 22-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS
Bifenthrin	NA	6.16	0.22	0.5	ng/dry g					10	30	PASS
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Cypermethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Danitol (Fenpropathrin)	NA	1.57	0.21	0.5	ng/dry g					26	30	PASS
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fluvalinate	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Permethrin, cis-	NA	4.47	0.17	0.5	ng/dry g					16	30	PASS
Permethrin, trans-	NA	11.1	0.22	0.5	ng/dry g					2	30	PASS
Prallethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES	COMMENTS
	7/18/2018	0815	sediment	B18-10022	3	X	
	7/18/2018	0920	sediment	B18-10076	3	X	MS/MSD analysis
	7/18/2018	0720	sediment	B18-10077	3	X	
	7/18/2018	1030	sediment	B18-10112	3	X	
	7/18/2018	1130	sediment	B18-10113	3	X	
	7/19/2018	1255	sediment	B18-10024	3	X	
	7/19/2018	1120	sediment	B18-10029	3	X	
	7/19/2018	1030	sediment	B18-10114	3	X	
	7/19/2018	0720	sediment	B18-10115	3	X	
	7/19/2018	0855	sediment	B18-10116	3	X	
	7/19/2018	0945	sediment	B18-20116	3	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/20/18 1445	RKS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:
Wood Environment & Infrastructure Solutions, Inc.

ADDRESS:
9210 Sky Park Ct., Suite 200
San Diego, CA 92123

PROJECT MANAGER
Chris Stransky, Corey Sheredy

PROJECT:
2018 Regional Harbor Monitoring Program

PHONE: 858-300-4316
FAX: 858-300-4301
EMAIL: chris.stransky@woodplc.com
corey.sheredy@woodplc.com

SAMPLER
Tyler Huff, Chris Stransky

ANALYSES REQUESTED

SEE ATTACHED LIST OF ANALYTES

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES	COMMENTS
	7/20/2018	1035	sediment	B18-10031	3	X	
	7/20/2018	1410	sediment	B18-10032	3	X	
	7/20/2018	0740	sediment	B18-10119	3	X	
	7/20/2018	0840	sediment	B18-10121	3	X	
	7/20/2018	0935	sediment	B18-10123	3	X	
	7/20/2018	1135	sediment	B18-10178	3	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/20/18 1445	[signature]
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-008

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/20/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 15	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 16:45 ☐ Other:	☐ Other :	☐ None 4.8 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 06, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-010

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/27/2018. A total of 12 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-010

2018 Regional Harbor Monitoring Program Total Samples: 12

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56685	B18-10124		7/26/2018	9:30	Sediment
56686	B18-10126		7/26/2018	12:45	Sediment
56687	B18-10127		7/26/2018	10:55	Sediment
56688	B18-10132		7/26/2018	13:45	Sediment
56689	B18-10133		7/26/2018	8:00	Sediment
56690	B18-20133		7/26/2018	11:30	Sediment
56691	B18-10136		7/27/2018	8:10	Sediment
56692	B18-10137		7/27/2018	7:25	Sediment
56693	B18-10139		7/27/2018	9:05	Sediment
56694	B18-10140		7/27/2018	10:10	Sediment
56695	B18-10141		7/27/2018	12:40	Sediment
56696	B18-10142		7/27/2018	11:10	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	47			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	57			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	2.05	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.525	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.724	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.33	0.192	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.432	0.186	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**12:45**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	56			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	41			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.24	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	52			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	51			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	49			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	2.17	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.377	0.179	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**13:45**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	65			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	64			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	81			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	59			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	51			NA		O-21012	08-Jan-19	02-Feb-19
(PCB112)	EPA 8270D	% Recovery	48			NA		O-21012	08-Jan-19	02-Feb-19
(PCB198)	EPA 8270D	% Recovery	68			NA		O-21012	08-Jan-19	02-Feb-19
(TCMX)	EPA 8270D	% Recovery	47			NA		O-21012	08-Jan-19	02-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	02-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	02-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	02-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	02-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	02-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	02-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	02-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	02-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	02-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	02-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	02-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	02-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**11:30**	**Received: 27-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	70			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	69			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	76			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	2.57	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	2.15	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.347	0.179	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	01-Feb-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	49			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	49			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	63			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.896	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	19-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**7:25**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	48			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	57			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.15	0.193	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**9:05**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	03-Feb-19
(PCB112)	EPA 8270D	% Recovery	41			NA		O-21012	08-Jan-19	03-Feb-19
(PCB198)	EPA 8270D	% Recovery	59			NA		O-21012	08-Jan-19	03-Feb-19
(TCMX)	EPA 8270D	% Recovery	42			NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.434	0.193	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	03-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	03-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	03-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	03-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	03-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	40			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	59			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	43			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.645	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	78			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	55			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	0.978	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	9.35	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	51			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	66			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	48			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	1.22	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	17.6	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	21.6	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.851	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	180	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56685-R1	**B18-10124**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	111	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	14.6	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	45.4	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.16	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	2.05	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	757	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56686-R1	**B18-10126**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**12:45**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	71.2	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	4.56	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	55.2	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.34	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	490	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	
Sample ID: 56687-R1	**B18-10127**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	70.2	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	5.05	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	53.9	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.11	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.45	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	587	0.016	0.05	NA		E-14070	24-Dec-18	07-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**13:45**	**Received: 27-Jul-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	5.97	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19 9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	6.63	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19 10:00
Percent Solids	SM 2540 B	%	72.9	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19 9:00
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19052	14-Jan-19	14-Jan-19 16:45
Total Organic Carbon	EPA 9060	% dry weight	0.25	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19 16:45
Total Phosphorus	EPA 6020	µg/dry g	218	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Sample ID: 56689-R1	**B18-10133**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	2.82	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19 9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	2.17	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19 10:00
Percent Solids	SM 2540 B	%	67.3	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19 9:00
Total Nitrogen	EPA 9060	% dry weight	0.02	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19 16:45
Total Organic Carbon	EPA 9060	% dry weight	0.33	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19 16:45
Total Phosphorus	EPA 6020	µg/dry g	422	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Sample ID: 56690-R1	**B18-20133**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**11:30**	**Received: 27-Jul-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	154	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19 9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	5.33	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19 10:00
Percent Solids	SM 2540 B	%	51.1	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19 9:00
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19 16:45
Total Organic Carbon	EPA 9060	% dry weight	1.43	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19 16:45
Total Phosphorus	EPA 6020	µg/dry g	582	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56691-R1	**B18-10136**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	10.3	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	7.13	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	53.7	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.27	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	540	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Sample ID: 56692-R1	**B18-10137**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**7:25**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	33.1	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.7	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	49.6	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.45	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	609	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Sample ID: 56693-R1	**B18-10139**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**9:05**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	22.7	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	11.5	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	53.3	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.04	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	505	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56694-R1	**B18-10140**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	25.3	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.11	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	50.4	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.4	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	561	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Sample ID: 56695-R1	**B18-10141**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	11.8	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	3.29	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	71.3	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.03	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	0.48	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	242	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Sample ID: 56696-R1	**B18-10142**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	51.2	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	16.7	0.02	0.03	NA		C-39076	07-Jan-19	07-Jan-19	10:00
Percent Solids	SM 2540 B	%	49.4	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	1.4	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	554	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**			**Matrix: Sediment**			**Sampled: 26-Jul-18 9:30**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	46700	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.496	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	12.8	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	112	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.92	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.422	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	79.7	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	228	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	44000	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	62.3	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.711	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:43
Nickel (Ni)	EPA 6020	µg/dry g	21.7	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.629	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	1.07	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	313	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**			**Matrix: Sediment**		**Sampled: 26-Jul-18**	**12:45**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	34900	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.23	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.72	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	82.6	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.686	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.234	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	59.9	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	162	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	32400	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	41.9	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.506	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:45
Nickel (Ni)	EPA 6020	µg/dry g	16.2	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.459	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.8	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	206	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**			**Matrix: Sediment**		**Sampled: 26-Jul-18**	**10:55**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	35400	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.693	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.9	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	94	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.624	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.52	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	69	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	196	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	33000	1	5	NA		E-14070	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	367	0.0025	0.005	NA		E-14070	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.661	0.00001	0.00002	NA		E-15087	11-Jan-19	11-Jan-19 16:48
Nickel (Ni)	EPA 6020	µg/dry g	28.5	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.501	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	1.56	0.01	0.02	NA		E-14070	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	255	0.025	0.05	NA		E-14070	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**			**Matrix: Sediment**		**Sampled: 26-Jul-18**	**13:45**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	13500	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.12	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	2.77	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	74.3	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.243	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0777	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	18	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	57.4	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	15400	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	7.72	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0653	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 17:38
Nickel (Ni)	EPA 6020	µg/dry g	7.14	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.13	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.0995	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	69.9	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**			**Matrix: Sediment**			**Sampled: 26-Jul-18 8:00**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	40700	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0805	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	11.6	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	227	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.791	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0761	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	38.7	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	49.1	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	39500	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.2	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0803	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 17:41
Nickel (Ni)	EPA 6020	µg/dry g	15.6	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.243	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.119	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	112	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56690-R1	**B18-20133**			**Matrix: Sediment**			**Sampled: 26-Jul-18**	**11:30**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	36700	1	5	NA		E-14071	24-Dec-18	07-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.52	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	10.8	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	99.1	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.727	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.52	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	71.6	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	202	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	34700	1	5	NA		E-14071	24-Dec-18	07-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	57.1	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	2.84	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19	17:53
Nickel (Ni)	EPA 6020	µg/dry g	18.3	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.546	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	1.34	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	264	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56691-R1	**B18-10136**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**8:10**		**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	35700	1	5	NA		E-14071	24-Dec-18	07-Feb-19	
Antimony (Sb)	EPA 6020	µg/dry g	0.292	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Arsenic (As)	EPA 6020	µg/dry g	9.02	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Barium (Ba)	EPA 6020	µg/dry g	96.7	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Beryllium (Be)	EPA 6020	µg/dry g	0.685	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Cadmium (Cd)	EPA 6020	µg/dry g	0.23	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Chromium (Cr)	EPA 6020	µg/dry g	62.1	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Copper (Cu)	EPA 6020	µg/dry g	154	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Iron (Fe)	EPA 6020	µg/dry g	34500	1	5	NA		E-14071	24-Dec-18	07-Feb-19	
Lead (Pb)	EPA 6020	µg/dry g	41.9	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19	
Mercury (Hg)	EPA 245.7	µg/dry g	0.429	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19	17:55
Nickel (Ni)	EPA 6020	µg/dry g	17.1	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19	
Selenium (Se)	EPA 6020	µg/dry g	0.382	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Silver (Ag)	EPA 6020	µg/dry g	0.677	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19	
Zinc (Zn)	EPA 6020	µg/dry g	210	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**7:25**	**Received: 27-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	44400	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.297	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.62	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	120	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.835	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.241	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	69.1	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	191	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	42600	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	40.5	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.447	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 17:58
Nickel (Ni)	EPA 6020	µg/dry g	19.8	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.508	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.748	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	233	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**9:05**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	33700	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.187	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	8.07	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	106	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.61	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.139	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	50.7	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	132	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	34200	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	25.1	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.249	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 18:00
Nickel (Ni)	EPA 6020	µg/dry g	16	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.346	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.448	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	168	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**10:10**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	39600	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.193	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	10.1	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	100	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.803	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.208	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	61.2	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	157	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	38200	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	33.9	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.36	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 18:03
Nickel (Ni)	EPA 6020	µg/dry g	17.5	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.485	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.674	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	209	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**12:40**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	17500	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.14	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	5.02	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	60.4	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.34	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.159	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	27.9	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	53.5	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	18200	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	14	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.15	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 18:05
Nickel (Ni)	EPA 6020	µg/dry g	7.78	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.211	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.354	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	81.6	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**11:10**		**Received: 27-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	38700	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.359	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.21	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	101	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.69	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.235	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	62.7	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	193	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	38300	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	37.8	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.418	0.00001	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 18:08
Nickel (Ni)	EPA 6020	µg/dry g	17.5	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.505	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.782	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	226	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.348	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.153	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0228	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.42	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56686-R1	**B18-10126**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**12:45**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.279	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.123	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0177	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.79	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19
Sample ID: 56687-R1	**B18-10127**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17002	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0591	0.0062	0.0124	NA		E-17002	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.124	0.0002	0.0004	NA		E-17002	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0191	0.0033	0.0066	NA		E-17002	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17002	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.03	0.0015	0.003	NA		E-17002	14-Jan-19	14-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**13:45**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.189	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0231	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00535	0.0033	0.0066	NA	J	E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.475	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.243	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0332	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0124	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.594	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**11:30**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0547	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.124	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0185	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.24	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.934	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.14	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0188	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.01	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56692-R1	**B18-10137**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**7:25**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.82	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.131	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0206	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.24	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56693-R1	**B18-10139**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**9:05**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.658	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0829	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0179	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.51	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.612	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.104	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0199	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.81	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56695-R1	**B18-10141**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.188	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0468	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00927	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.724	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56696-R1	**B18-10142**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.777	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.122	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0227	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.17	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**12:45**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**13:45**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**11:30**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	01-Feb-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	01-Feb-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	01-Feb-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	01-Feb-19
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	19-Jan-19
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**7:25**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**9:05**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18 9:30**			**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	5.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	9.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	10.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	7.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	11.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	6.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18 12:45**		**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	6.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	8.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	9.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	8.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	5.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	5.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	5.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	7.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	8.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	9.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18 13:45**		**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	14.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	24.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	23.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	12	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	4.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	11.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	7.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	11.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	5.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	5.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**11:30**	**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	6.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	5.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	8.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	10.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	6.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	3.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	7.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	5.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	8.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	9.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	6.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**7:25**	**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	4.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	6.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	9.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	10.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	10.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**9:05**	**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	1.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	9.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	9.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	9.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	8.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	8.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	7.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	7.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	4.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	6.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	8.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	5.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	9.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	9.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	5.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	1.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	11.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	10.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	8.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	4.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	7.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**11:10**	**Received: 27-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 10.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 2.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.0	SM 2560 D	%	6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 3.5	SM 2560 D	%	7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 4.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 5.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.0	SM 2560 D	%	8.8	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 6.5	SM 2560 D	%	5.9	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 7.0	SM 2560 D	%	9.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.0	SM 2560 D	%	7.4	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 8.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19
Phi 9.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1109	21-Jan-19	21-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	0.648	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	0.806	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.87	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	1.86	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	1.2	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.539	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	0.787	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	2.7	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	2.63	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	4.49	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	3.96	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	3.15	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	1.6	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	5.78	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	3.62	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	1.28	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	5.77	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	0.714	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	0.318	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	1.26	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	1.27	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	1.24	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	1.01	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	3.19	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.01	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	2.36	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	1.35	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	0.942	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**12:45**	**Received: 27-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	0.426	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	1.44	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.91	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	1.02	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	0.911	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.371	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	0.665	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	2.36	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	1.88	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	3.57	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	0.36	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	2.95	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	2.22	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	1.45	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	4.05	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	0.549	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	2.78	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	0.99	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	3.6	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	0.443	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	0.506	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.629	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	0.866	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.734	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.816	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	2.22	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.608	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	1.52	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	0.919	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	1.71	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	1.23	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.76	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	1.7	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	1.25	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	3.55	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	2.53	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	5.39	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	0.649	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	3.98	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	3.04	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	1.88	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	7.3	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	0.7	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	5.9	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	2.25	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	7.55	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	0.73	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	0.573	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	1.12	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	2.03	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	2.24	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	1.65	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	6.66	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	1.86	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	3.91	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	2.18	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	1.37	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	1.07	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**13:45**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	0.222	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	0.204	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.34	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	0.229	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	0.266	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	0.644	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	0.47	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	0.225	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	0.757	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.2	0.12	0.25	NA	J	O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.232	0.085	0.25	NA	J	O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	0.549	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.0979	0.056	0.25	NA	J	O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	0.377	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB095	EPA 8270D	ng/dry g	0.15	0.1	0.2	NA	J	O-21012	08-Jan-19	02-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB099	EPA 8270D	ng/dry g	0.12	0.028	0.2	NA	J	O-21012	08-Jan-19	02-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.208	0.027	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB138	EPA 8270D	ng/dry g	0.387	0.057	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB149	EPA 8270D	ng/dry g	0.229	0.092	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB153	EPA 8270D	ng/dry g	0.426	0.065	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	02-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB180	EPA 8270D	ng/dry g	0.426	0.154	0.25	NA		O-21012	08-Jan-19	02-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB187	EPA 8270D	ng/dry g	0.239	0.168	0.25	NA	J	O-21012	08-Jan-19	02-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	02-Feb-19
PCB209	EPA 8270D	ng/dry g	0.158	0.12	0.25	NA	J	O-21012	08-Jan-19	02-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**11:30**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	0.998	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	1.32	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	2.86	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	2.6	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	2.51	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.773	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	1.7	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	6.09	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	4.56	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	9.35	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	0.572	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	7.81	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	5.95	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	3.44	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	12	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	1.38	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	9.1	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	3.14	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	12.1	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	2.38	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	1.06	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	1.21	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	1.8	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	2.36	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	3.39	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	3.03	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	12	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	2.6	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	6.67	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	5.73	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	3.26	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	0.379	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	3.54	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	2.72	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	1.89	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	0.765	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	0.689	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	1.2	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	0.938	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	0.727	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	2.23	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	1.41	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	0.574	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	2.25	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	0.334	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.337	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	1.19	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.607	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	0.694	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	1.93	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.407	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	1.28	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**7:25**	**Received: 27-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	0.753	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	1.03	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	1.57	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	0.328	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	0.292	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	0.301	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	0.45	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	0.612	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.948	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	0.59	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	0.688	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	1.74	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	1.26	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	0.449	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	1.82	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.246	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	0.753	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.374	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	1.29	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.361	0.056	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	0.952	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	0.398	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**9:05**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB095	EPA 8270D	ng/dry g	0.364	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB099	EPA 8270D	ng/dry g	0.29	0.028	0.2	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.386	0.027	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB110	EPA 8270D	ng/dry g	0.225	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB118	EPA 8270D	ng/dry g	0.245	0.069	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB138	EPA 8270D	ng/dry g	0.805	0.057	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB149	EPA 8270D	ng/dry g	0.686	0.092	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB153	EPA 8270D	ng/dry g	1.11	0.065	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.224	0.094	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	03-Feb-19
PCB170	EPA 8270D	ng/dry g	0.565	0.118	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB174	EPA 8270D	ng/dry g	0.232	0.12	0.25	NA	J	O-21012	08-Jan-19	03-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB180	EPA 8270D	ng/dry g	0.801	0.154	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.204	0.056	0.25	NA	J	O-21012	08-Jan-19	03-Feb-19
PCB187	EPA 8270D	ng/dry g	0.618	0.168	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB206	EPA 8270D	ng/dry g	0.431	0.155	0.25	NA		O-21012	08-Jan-19	03-Feb-19
PCB209	EPA 8270D	ng/dry g	0.383	0.12	0.25	NA		O-21012	08-Jan-19	03-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**10:10**	**Received: 27-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	0.261	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.523	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.546	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.903	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	0.648	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	0.511	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	1.32	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	1.03	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	0.36	0.073	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	1.29	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.231	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	0.408	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	0.268	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	0.403	0.085	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	0.919	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.268	0.056	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.632	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.33	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.373	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.4	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	0.323	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	0.382	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	0.744	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	0.758	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	0.236	0.073	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	0.914	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	0.2	0.12	0.25	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	0.797	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.19	0.056	0.25	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.45	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	0.485	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	0.365	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	0.235	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	0.365	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	0.236	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.579	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.769	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	1.02	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	0.589	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	0.681	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	1.55	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	1.17	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	0.438	0.073	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	1.62	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	0.311	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.462	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	1.19	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	0.388	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	0.456	0.085	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	1.25	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.327	0.056	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.876	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	50			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	65			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.605	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.755	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	6.44	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**12:45**	**Received: 27-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	41			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	65			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	3.62	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	62			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	70			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	5.11	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**13:45**	**Received: 27-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	69			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	3.06	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21012	08-Jan-19	21-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	66			NA		O-21012	08-Jan-19	21-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	21-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**11:30**	**Received: 27-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	89			NA		O-21012	08-Jan-19	30-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	117			NA		O-21012	08-Jan-19	30-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	24.2	0.05	0.1	NA		O-21012	08-Jan-19	30-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	52			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	64			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.14	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**7:25**	**Received: 27-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	52			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	61			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	20.1	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**9:05**	**Received: 27-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	48			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	56			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**10:10**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	54			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	55			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.201	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.21	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	66			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.186	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	48			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	63			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.231	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.62	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**9:30**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	61			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	78			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	61			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	31			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.92	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.85	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	7.84	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.71	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.58	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	1.42	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	8.97	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	21.4	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	162	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	210	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	342	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	205	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	147	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	265	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.774	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	127	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	99.8	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.21	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	122	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	3.11	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	339	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	4.21	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	37.4	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	30.5	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	239	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**12:45**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	63			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	99			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	62			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	25			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.87	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.82	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.18	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.02	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.73	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.603	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	6.13	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	11.1	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	96.4	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	121	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	205	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	117	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	95.2	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	164	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.473	0.092	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	70.1	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	56.1	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.13	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	67.6	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.25	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	227	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.18	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	23.5	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	15.7	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	94.7	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**10:55**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	54			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	72			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	91			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	66			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	35			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.69	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.11	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	8.14	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.91	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	4.51	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	1.72	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	10.4	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	23.3	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	169	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	267	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	378	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	250	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	179	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	279	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	1.13	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	127	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	114	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.56	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	137	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	3.39	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	360	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	5.77	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	38.9	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	28	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	176	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**			**Matrix: Sediment**		**Sampled: 26-Jul-18 13:45**			**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	67			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	91			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	131			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	87			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	48			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.32	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.767	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.29	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.637	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.67	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.279	0.078	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	2.39	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	5.36	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	39.3	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	61.8	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	115	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	50.7	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	30.8	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	92.8	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.288	0.092	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	33.5	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	25	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.564	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	23	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.792	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	100	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	1.72	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	7.12	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	6.58	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	34.9	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**8:00**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	02-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	66			NA		O-21012	08-Jan-19	02-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	112			NA		O-21012	08-Jan-19	02-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	68			NA		O-21012	08-Jan-19	02-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	44			NA		O-21012	08-Jan-19	02-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.18	0.059	0.5	NA		O-21012	08-Jan-19	02-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.574	0.084	0.5	NA		O-21012	08-Jan-19	02-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.87	0.076	0.5	NA		O-21012	08-Jan-19	02-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.527	0.065	0.5	NA		O-21012	08-Jan-19	02-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.33	0.106	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.165	0.078	0.5	NA	J	O-21012	08-Jan-19	02-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	0.635	0.058	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Anthracene	EPA 8270D	ng/dry g	1.52	0.046	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	14.3	0.107	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	9.64	0.106	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	23.6	0.063	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	8.8	0.098	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	9.34	0.093	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	18.5	0.111	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.215	0.092	0.5	NA	J	O-21012	08-Jan-19	02-Feb-19
Chrysene	EPA 8270D	ng/dry g	9.25	0.067	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.23	0.106	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.603	0.2	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	15	0.035	0.5	NA		O-21012	08-Jan-19	02-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.642	0.068	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	31	0.087	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Naphthalene	EPA 8270D	ng/dry g	1.49	0.187	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Perylene	EPA 8270D	ng/dry g	1.89	0.114	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	6.58	0.074	0.5	NA		O-21012	08-Jan-19	02-Feb-19
Pyrene	EPA 8270D	ng/dry g	14.9	0.048	0.5	NA		O-21012	08-Jan-19	02-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**			**Matrix: Sediment**		**Sampled: 26-Jul-18**		**11:30**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	77			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	98			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	139			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	87			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	54			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	5.7	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	3.02	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	9.75	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	4.06	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	7.13	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	1.37	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	15.5	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	25.9	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	172	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	230	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	342	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	220	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	175	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	261	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	1.29	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	131	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	106	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.85	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	140	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	4.8	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	364	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	6.24	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	34	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	34.1	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	220	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**			**Matrix: Sediment**		**Sampled: 27-Jul-18**		**8:10**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	62			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	97			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	27			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.93	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.07	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.36	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.33	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.48	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.558	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	4.79	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	11.4	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	82.1	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	76.4	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	152	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	70.6	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	65	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	114	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.522	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	64.5	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	42.7	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.18	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	56.2	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.4	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	172	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.66	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	12.6	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	14.8	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	67.9	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**7:25**		**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	62			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	95			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	63			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	29			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.29	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.06	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	5.07	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.04	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.31	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.619	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	6.89	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	14.7	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	138	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	159	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	243	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	138	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	110	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	190	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.558	0.092	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	107	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	81.3	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.28	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	72.5	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.81	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	265	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.53	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	30.8	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	18.4	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	86.2	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**9:05**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	03-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	106			NA		O-21012	08-Jan-19	03-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	03-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	34			NA		O-21012	08-Jan-19	03-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.69	0.059	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.862	0.084	0.5	NA		O-21012	08-Jan-19	03-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	4.17	0.076	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.998	0.065	0.5	NA		O-21012	08-Jan-19	03-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.71	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.701	0.078	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	3.4	0.058	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Anthracene	EPA 8270D	ng/dry g	23.1	0.046	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	135	0.107	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	68	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	131	0.063	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	59.8	0.098	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	47.4	0.093	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	103	0.111	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.392	0.092	0.5	NA	J	O-21012	08-Jan-19	03-Feb-19
Chrysene	EPA 8270D	ng/dry g	112	0.067	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	34.6	0.106	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.17	0.2	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	71.4	0.035	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.09	0.068	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	141	0.087	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.33	0.187	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Perylene	EPA 8270D	ng/dry g	14	0.114	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	14.4	0.074	0.5	NA		O-21012	08-Jan-19	03-Feb-19
Pyrene	EPA 8270D	ng/dry g	67.2	0.048	0.5	NA		O-21012	08-Jan-19	03-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**			**Matrix: Sediment**		**Sampled: 27-Jul-18**	**10:10**	**Received: 27-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	46			NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	58			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	103			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	57			NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	34			NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.2	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.3	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	5.5	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.35	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.74	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.78	0.078	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	5.82	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	18.6	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	154	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	97.4	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	166	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	81.4	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	71.8	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	130	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.627	0.092	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	131	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	53.6	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.27	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	76.7	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.05	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	195	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	3.35	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	19.1	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	17.8	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	85.2	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**12:40**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	60			NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	78			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	140			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	75			NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	39			NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.4	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.709	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.05	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.778	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.6	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.241	0.078	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	2.27	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	4.11	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	46.6	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	31.8	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	61.4	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	22.7	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	27.4	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	47.1	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.288	0.092	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	29.4	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	16.7	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.508	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	21.5	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.701	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	77.6	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	1.75	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	5.76	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	6.75	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	26	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**		**11:10**	**Received: 27-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	48			NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	54			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	106			NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	55			NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	38			NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	3.49	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.77	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	6.98	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.78	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.25	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.957	0.078	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	10.5	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	30.2	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	254	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	172	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	252	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	147	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	110	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	206	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.762	0.092	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	253	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	85.5	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.69	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	127	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.68	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	277	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	3.71	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	34.1	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	24.4	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	129	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56685-R1	**B18-10124**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**9:30**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	2.17	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.26	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56686-R1	**B18-10126**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**12:45**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.381	0.22	0.5	NA	J	O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.32	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56687-R1	**B18-10127**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**10:55**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56688-R1	**B18-10132**		**Matrix: Sediment**			**Sampled: 26-Jul-18 13:45**		**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56689-R1	**B18-10133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56690-R1	**B18-20133**		**Matrix: Sediment**			**Sampled: 26-Jul-18**	**11:30**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.89	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56691-R1	**B18-10136**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**8:10**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.525	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56692-R1	**B18-10137**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**7:25**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.466	0.22	0.5	NA	J	O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.68	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56693-R1	**B18-10139**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**9:05**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56694-R1	**B18-10140**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**10:10**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56695-R1	**B18-10141**		**Matrix: Sediment**			**Sampled: 27-Jul-18 12:40**			**Received: 27-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56696-R1	**B18-10142**		**Matrix: Sediment**			**Sampled: 27-Jul-18**	**11:10**	**Received: 27-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.253	0.22	0.5	NA	J	O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 09-Jan-19**			**Analyzed: 09-Jan-19**		
56681-B1	QAQC Procedural Blank	C-41079	ND	0.05	0.1	mg/dry kg									
56681-BS1	QAQC Procedural Blank	C-41079	22.5	0.05	0.1	mg/dry kg	24.6	0	91	80 - 120%	PASS				
56681-BS2	QAQC Procedural Blank	C-41079	22.2	0.05	0.1	mg/dry kg	24.6	0	90	80 - 120%	PASS	1	25	PASS	
56689-MS1	B18-10133	C-41079	12.8	0.05	0.1	mg/dry kg	23.9	2.76	42	80 - 120%	FAIL				M
56689-MS2	B18-10133	C-41079	12.4	0.05	0.1	mg/dry kg	23.3	2.76	41	80 - 120%	FAIL	2	25	PASS	M
56689-R2	B18-10133	C-41079	2.71	0.05	0.1	mg/dry kg						4	25	PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 07-Jan-19**			**Analyzed: 07-Jan-19**		
56681-B1	QAQC Procedural Blank	C-39076	ND	0.02	0.03	mg/dry kg									
56681-BS1	QAQC Procedural Blank	C-39076	1.69	0.02	0.03	mg/dry kg	1.67	0	101	80 - 120%	PASS				
56681-BS2	QAQC Procedural Blank	C-39076	1.72	0.02	0.03	mg/dry kg	1.67	0	103	80 - 120%	PASS	2	25	PASS	
56689-MS1	B18-10133	C-39076	5.12	0.02	0.03	mg/dry kg	2.96	2.19	99	80 - 120%	PASS				
56689-MS2	B18-10133	C-39076	5.05	0.02	0.03	mg/dry kg	2.95	2.19	97	80 - 120%	PASS	2	25	PASS	
56689-R2	B18-10133	C-39076	2.22	0.02	0.03	mg/dry kg						2	25	PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 08-Jan-19**			**Analyzed: 08-Jan-19**		
56681-B1	QAQC Procedural Blank	C-35150	ND	0.1	0.1	%									
56685-R2	B18-10124	C-35150	45.2	0.1	0.1	%						0	25	PASS	
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 14-Jan-19**			**Analyzed: 14-Jan-19**		
56681-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									
56689-R2	B18-10133	O-19052	0.02	0.01	0.01	% dry weight						0	25	PASS	
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 14-Jan-19**			**Analyzed: 14-Jan-19**		
56681-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									
56683-CRM1	QAQC CRM - SRM 1944	O-19052	4.9	0.01	0.01	% dry weight	4.4		111	80 - 120%	PASS				
56689-R2	B18-10133	O-19052	0.34	0.01	0.01	% dry weight						3	20	PASS	
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**				**Prepared: 24-Dec-18**			**Analyzed: 07-Feb-19**		
20798-B1	QAQC Procedural Blank	E-14070	ND	0.016	0.05	µg/dry g									
20798-BS1	QAQC Procedural Blank	E-14070	47.7	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS				
20798-BS2	QAQC Procedural Blank	E-14070	47.7	0.016	0.05	µg/dry g	50	0	95	80 - 120%	PASS	0	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals

QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56681-B1	QAQC Procedural Blank	E-14071	ND	0.016	0.05	µg/dry g									
56681-BS1	QAQC Procedural Blank	E-14071	45.2	0.016	0.05	µg/dry g	50	0	90	80 - 120%	PASS				
56681-BS2	QAQC Procedural Blank	E-14071	45.1	0.016	0.05	µg/dry g	50	0	90	80 - 120%	PASS	0	25	PASS	
56689-MS1	B18-10133	E-14071	1800	0.016	0.05	µg/dry g	1360	418	102	80 - 120%	PASS				
56689-MS2	B18-10133	E-14071	1780	0.016	0.05	µg/dry g	1360	418	100	80 - 120%	PASS	2	25	PASS	
56689-R2	B18-10133	E-14071	414	0.016	0.05	µg/dry g						2	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(PCB030)	NA	68			% Recovery	100	68	50 - 123%	PASS			
(PCB112)	NA	70			% Recovery	100	70	53 - 129%	PASS			
(PCB198)	NA	89			% Recovery	100	89	51 - 131%	PASS			
(TCMX)	NA	61			% Recovery	100	61	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 19-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(PCB030)	NA	78			% Recovery	100	0	78	50 - 123% PASS			
(PCB112)	NA	72			% Recovery	100	0	72	53 - 129% PASS			
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131% PASS			
(TCMX)	NA	70			% Recovery	100	0	70	45 - 117% PASS			
2,4'-DDD	NA	415	0.267	0.5	ng/dry g	500	0	83	60 - 140% PASS			
2,4'-DDE	NA	388	0.2	0.5	ng/dry g	500	0	78	60 - 140% PASS			
2,4'-DDT	NA	402	0.194	0.5	ng/dry g	500	0	80	60 - 140% PASS			
4,4'-DDD	NA	569	0.198	0.5	ng/dry g	500	0	114	60 - 140% PASS			
4,4'-DDE	NA	403	0.193	0.5	ng/dry g	500	0	81	60 - 140% PASS			
4,4'-DDMU	NA	450	0.223	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDT	NA	585	0.128	0.5	ng/dry g	500	0	117	60 - 140% PASS			
Aldrin	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140% PASS			
BHC-alpha	NA	403	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS			
BHC-beta	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
BHC-gamma	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Chlordane-alpha	NA	357	0.187	0.5	ng/dry g	500	0	71	60 - 140% PASS			
Chlordane-gamma	NA	428	0.179	0.5	ng/dry g	500	0	86	60 - 140% PASS			
cis-Nonachlor	NA	355	0.192	0.5	ng/dry g	500	0	71	60 - 140% PASS			
DCPA (Dacthal)	NA	502	5	10	ng/dry g	500	0	100	60 - 140% PASS			
Dicofol	NA	433	2.5	5	ng/dry g	500	0	87	60 - 140% PASS			
Dieldrin	NA	371	0.1	0.2	ng/dry g	500	0	74	60 - 140% PASS			
Endosulfan Sulfate	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140% PASS			
Endosulfan-I	NA	9.94	0.25	0.5	ng/dry g	500	0	2	60 - 140% FAIL			Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140% FAIL			Q
Endrin	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140% PASS			
Endrin Aldehyde	NA	49.6	0.25	0.5	ng/dry g	500	0	10	60 - 140% FAIL			Q
Endrin Ketone	NA	529	0.25	0.5	ng/dry g	500	0	106	60 - 140% PASS			
Heptachlor	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Hexachlorobenzene	NA	377	0.25	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
Methoxychlor	NA	765	0.25	0.5	ng/dry g	500	0	153	60 - 140%	FAIL			Q
Mirex	NA	427	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Oxychlordane	NA	421	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	679	5	10	ng/dry g	500	0	136	60 - 140%	PASS			
trans-Nonachlor	NA	358	0.186	0.5	ng/dry g	500	0	72	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 19-Jan-19		
Toxaphene	NA	5680	10	20	ng/dry g	5000	0	114	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19			
(PCB030)	NA	74			% Recovery	100	0	74	50 - 123%	PASS	5	30	PASS	
(PCB112)	NA	66			% Recovery	100	0	66	53 - 129%	PASS	9	30	PASS	
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131%	PASS	0	30	PASS	
(TCMX)	NA	65			% Recovery	100	0	65	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	396	0.267	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
2,4'-DDE	NA	368	0.2	0.5	ng/dry g	500	0	74	60 - 140%	PASS	5	30	PASS	
2,4'-DDT	NA	392	0.194	0.5	ng/dry g	500	0	78	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	551	0.198	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	
4,4'-DDE	NA	380	0.193	0.5	ng/dry g	500	0	76	60 - 140%	PASS	6	30	PASS	
4,4'-DDMU	NA	426	0.223	0.5	ng/dry g	500	0	85	60 - 140%	PASS	6	30	PASS	
4,4'-DDT	NA	592	0.128	0.5	ng/dry g	500	0	118	60 - 140%	PASS	1	30	PASS	
Aldrin	NA	500	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	4	30	PASS	
BHC-alpha	NA	395	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	2	30	PASS	
BHC-beta	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	397	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
BHC-gamma	NA	408	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	340	0.187	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
Chlordane-gamma	NA	411	0.179	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
cis-Nonachlor	NA	341	0.192	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
DCPA (Dacthal)	NA	482	5	10	ng/dry g	500	0	96	60 - 140%	PASS	4	30	PASS	
Dicofol	NA	446	2.5	5	ng/dry g	500	0	89	60 - 140%	PASS	2	30	PASS	
Dieldrin	NA	361	0.1	0.2	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan Sulfate	NA	447	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	1	30	PASS	
Endosulfan-I	NA	9.69	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	0	30	PASS	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
Endrin Aldehyde	NA	150	0.25	0.5	ng/dry g	500	0	30	60 - 140%	FAIL	100	30	FAIL	Q
Endrin Ketone	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	457	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	460	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	14	30	PASS	
Hexachlorobenzene	NA	360	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	796	0.25	0.5	ng/dry g	500	0	159	60 - 140%	FAIL	4	30	PASS	Q
Mirex	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Oxychlordane	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
Perthane	NA	673	5	10	ng/dry g	500	0	135	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	349	0.186	0.5	ng/dry g	500	0	70	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19		
Toxaphene	NA	5650	10	20	ng/dry g	5000	0	113	60 - 140%	PASS	1	30	PASS	
Sample ID: 56683-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
(PCB030)	NA	82			% Recovery	100		82	33 - 149%	PASS				
(PCB112)	NA	82			% Recovery	100		82	49 - 120%	PASS				
(PCB198)	NA	58			% Recovery	100		58	35 - 123%	PASS				
(TCMX)	NA	81			% Recovery	100		81	37 - 138%	PASS				
2,4'-DDD	NA	35.6	0.267	0.5	ng/dry g	38		94	60 - 140%	PASS				
2,4'-DDE	NA	21.2	0.2	0.5	ng/dry g	19		112	60 - 140%	PASS				
4,4'-DDD	NA	132	0.198	0.5	ng/dry g	108		122	60 - 140%	PASS				
4,4'-DDE	NA	97.6	0.193	0.5	ng/dry g	86		113	60 - 140%	PASS				
4,4'-DDT	NA	167	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	17.7	0.187	0.5	ng/dry g	16.5		107	60 - 140%	PASS				
Chlordane-gamma	NA	25.9	0.179	0.5	ng/dry g	19		136	60 - 140%	PASS				
cis-Nonachlor	NA	3.65	0.192	0.5	ng/dry g	3.7		99	60 - 140%	PASS				
Hexachlorobenzene	NA	5.31	0.25	0.5	ng/dry g	6		88	60 - 140%	PASS				
trans-Nonachlor	NA	10.1	0.186	0.5	ng/dry g	8.2		123	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(PCB030)	NA	72			% Recovery	100	0	72	24 - 118% PASS			
(PCB112)	NA	69			% Recovery	100	0	69	34 - 121% PASS			
(PCB198)	NA	83			% Recovery	100	0	83	37 - 125% PASS			
(TCMX)	NA	63			% Recovery	100	0	63	22 - 117% PASS			
2,4'-DDD	NA	82.3	0.267	0.5	ng/dry g	96.5	0	85	60 - 140% PASS			
2,4'-DDE	NA	69.9	0.2	0.5	ng/dry g	96.5	0	72	60 - 140% PASS			
2,4'-DDT	NA	79.7	0.194	0.5	ng/dry g	96.5	0	83	60 - 140% PASS			
4,4'-DDD	NA	117	0.198	0.5	ng/dry g	96.5	0	121	60 - 140% PASS			
4,4'-DDE	NA	76	0.193	0.5	ng/dry g	96.5	0	79	60 - 140% PASS			
4,4'-DDMU	NA	87.7	0.223	0.5	ng/dry g	96.5	0	91	60 - 140% PASS			
4,4'-DDT	NA	124	0.128	0.5	ng/dry g	96.5	0	128	60 - 140% PASS			
Aldrin	NA	98.9	0.25	0.5	ng/dry g	96.5	0	102	60 - 140% PASS			
BHC-alpha	NA	76.4	0.25	0.5	ng/dry g	96.5	0	79	60 - 140% PASS			
BHC-beta	NA	88.3	0.25	0.5	ng/dry g	96.5	0	92	60 - 140% PASS			
BHC-delta	NA	79.5	0.25	0.5	ng/dry g	96.5	0	82	60 - 140% PASS			
BHC-gamma	NA	77.3	0.25	0.5	ng/dry g	96.5	0	80	60 - 140% PASS			
Chlordane-alpha	NA	67.3	0.187	0.5	ng/dry g	96.5	0	70	60 - 140% PASS			
Chlordane-gamma	NA	82.6	0.179	0.5	ng/dry g	96.5	0	86	60 - 140% PASS			
cis-Nonachlor	NA	67	0.192	0.5	ng/dry g	96.5	0	69	60 - 140% PASS			
DCPA (Dacthal)	NA	97.7	5	10	ng/dry g	96.5	0	101	60 - 140% PASS			
Dicofol	NA	100	2.5	5	ng/dry g	96.5	0	104	60 - 140% PASS			
Dieldrin	NA	70.7	0.1	0.2	ng/dry g	96.5	0	73	60 - 140% PASS			
Endosulfan Sulfate	NA	89.4	0.25	0.5	ng/dry g	96.5	0	93	60 - 140% PASS			
Endosulfan-I	NA	0	0.25	0.5	ng/dry g	96.5	0	0	60 - 140% FAIL			M
Endosulfan-II	NA	12.2	0.25	0.5	ng/dry g	96.5	0	13	60 - 140% FAIL			M
Endrin	NA	89.1	0.25	0.5	ng/dry g	96.5	0	92	60 - 140% PASS			
Endrin Aldehyde	NA	17.2	0.25	0.5	ng/dry g	96.5	0	18	60 - 140% FAIL			Q
Endrin Ketone	NA	99.1	0.25	0.5	ng/dry g	96.5	0	103	60 - 140% PASS			
Heptachlor	NA	98.7	0.25	0.5	ng/dry g	96.5	0	102	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	97	0.25	0.5	ng/dry g	96.5	0	101	60 - 140%	PASS			
Hexachlorobenzene	NA	67.1	0.25	0.5	ng/dry g	96.5	0	70	60 - 140%	PASS			
Methoxychlor	NA	163	0.25	0.5	ng/dry g	96.5	0	169	60 - 140%	FAIL			M
Mirex	NA	75.9	0.25	0.5	ng/dry g	96.5	0	79	60 - 140%	PASS			
Oxychlordane	NA	82.2	0.25	0.5	ng/dry g	96.5	0	85	60 - 140%	PASS			
Perthane	NA	147	5	10	ng/dry g	96.5	0	152	60 - 140%	FAIL			M
trans-Nonachlor	NA	68.9	0.186	0.5	ng/dry g	96.5	0	71	60 - 140%	PASS			
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19	
Toxaphene	NA	1010	10	20	ng/dry g	964	0	105	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 02-Feb-19			
(PCB030)	NA	72			% Recovery	100	0	72	24 - 118%	PASS	0	30	PASS	
(PCB112)	NA	70			% Recovery	100	0	70	34 - 121%	PASS	1	30	PASS	
(PCB198)	NA	89			% Recovery	100	0	89	37 - 125%	PASS	7	30	PASS	
(TCMX)	NA	63			% Recovery	100	0	63	22 - 117%	PASS	0	30	PASS	
2,4'-DDD	NA	87.1	0.267	0.5	ng/dry g	96.6	0	90	60 - 140%	PASS	6	30	PASS	
2,4'-DDE	NA	72.1	0.2	0.5	ng/dry g	96.6	0	75	60 - 140%	PASS	4	30	PASS	
2,4'-DDT	NA	84.8	0.194	0.5	ng/dry g	96.6	0	88	60 - 140%	PASS	6	30	PASS	
4,4'-DDD	NA	123	0.198	0.5	ng/dry g	96.6	0	127	60 - 140%	PASS	5	30	PASS	
4,4'-DDE	NA	79.2	0.193	0.5	ng/dry g	96.6	0	82	60 - 140%	PASS	4	30	PASS	
4,4'-DDMU	NA	90.9	0.223	0.5	ng/dry g	96.6	0	94	60 - 140%	PASS	3	30	PASS	
4,4'-DDT	NA	131	0.128	0.5	ng/dry g	96.6	0	136	60 - 140%	PASS	6	30	PASS	
Aldrin	NA	102	0.25	0.5	ng/dry g	96.6	0	106	60 - 140%	PASS	4	30	PASS	
BHC-alpha	NA	79	0.25	0.5	ng/dry g	96.6	0	82	60 - 140%	PASS	4	30	PASS	
BHC-beta	NA	94	0.25	0.5	ng/dry g	96.6	0	97	60 - 140%	PASS	5	30	PASS	
BHC-delta	NA	85.6	0.25	0.5	ng/dry g	96.6	0	89	60 - 140%	PASS	8	30	PASS	
BHC-gamma	NA	79.7	0.25	0.5	ng/dry g	96.6	0	83	60 - 140%	PASS	4	30	PASS	
Chlordane-alpha	NA	69.9	0.187	0.5	ng/dry g	96.6	0	72	60 - 140%	PASS	3	30	PASS	
Chlordane-gamma	NA	85.4	0.179	0.5	ng/dry g	96.6	0	88	60 - 140%	PASS	2	30	PASS	
cis-Nonachlor	NA	70.9	0.192	0.5	ng/dry g	96.6	0	73	60 - 140%	PASS	6	30	PASS	
DCPA (Dacthal)	NA	102	5	10	ng/dry g	96.6	0	106	60 - 140%	PASS	5	30	PASS	
Dicofol	NA	94.7	2.5	5	ng/dry g	96.6	0	98	60 - 140%	PASS	6	30	PASS	
Dieldrin	NA	69.1	0.1	0.2	ng/dry g	96.6	0	72	60 - 140%	PASS	1	30	PASS	
Endosulfan Sulfate	NA	94	0.25	0.5	ng/dry g	96.6	0	97	60 - 140%	PASS	4	30	PASS	
Endosulfan-I	NA	0	0.25	0.5	ng/dry g	96.6	0	0	60 - 140%	FAIL	0	30	PASS	M
Endosulfan-II	NA	12.4	0.25	0.5	ng/dry g	96.6	0	13	60 - 140%	FAIL	0	30	PASS	M
Endrin	NA	96	0.25	0.5	ng/dry g	96.6	0	99	60 - 140%	PASS	7	30	PASS	
Endrin Aldehyde	NA	27.8	0.25	0.5	ng/dry g	96.6	0	29	60 - 140%	FAIL	47	30	FAIL	Q,M
Endrin Ketone	NA	102	0.25	0.5	ng/dry g	96.6	0	106	60 - 140%	PASS	3	30	PASS	
Heptachlor	NA	104	0.25	0.5	ng/dry g	96.6	0	108	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	105	0.25	0.5	ng/dry g	96.6	0	109	60 - 140%	PASS	8	30	PASS	
Hexachlorobenzene	NA	68.7	0.25	0.5	ng/dry g	96.6	0	71	60 - 140%	PASS	1	30	PASS	
Methoxychlor	NA	176	0.25	0.5	ng/dry g	96.6	0	182	60 - 140%	FAIL	7	30	PASS	M
Mirex	NA	80.8	0.25	0.5	ng/dry g	96.6	0	84	60 - 140%	PASS	6	30	PASS	
Oxychlordane	NA	88.4	0.25	0.5	ng/dry g	96.6	0	92	60 - 140%	PASS	8	30	PASS	
Perthane	NA	153	5	10	ng/dry g	96.6	0	158	60 - 140%	FAIL	4	30	PASS	M
trans-Nonachlor	NA	72.1	0.186	0.5	ng/dry g	96.6	0	75	60 - 140%	PASS	5	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19		
Toxaphene	NA	958	10	20	ng/dry g	966	0	99	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**				**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 03-Feb-19		
(PCB030)	NA	46			% Recovery	100	46	24 - 118%	PASS	10	30	PASS	
(PCB112)	NA	42			% Recovery	100	42	34 - 121%	PASS	13	30	PASS	
(PCB198)	NA	62			% Recovery	100	62	37 - 125%	PASS	9	30	PASS	
(TCMX)	NA	42			% Recovery	100	42	22 - 117%	PASS	11	30	PASS	
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g					0	30	PASS	
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g					0	30	PASS	
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g					0	30	PASS	
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g					0	30	PASS	
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g					0	30	PASS	
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g					0	30	PASS	
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g					0	30	PASS	
Aldrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-alpha	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-beta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-delta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-gamma	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g					0	30	PASS	
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g					0	30	PASS	
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g					0	30	PASS	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g					0	30	PASS	
Dicofol	NA	ND	2.5	5	ng/dry g					0	30	PASS	
Dieldrin	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Heptachlor	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Methoxychlor	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Mirex	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Oxychlordane	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Perthane	NA	ND	5	10	ng/dry g					0	30 PASS	
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g					0	30 PASS	
		Method: EPA 8270D-NCI			Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 19-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20798-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
		Method: EPA 6020			Batch ID: E-14070		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7			Batch ID: E-15087		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20798-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS		
Antimony (Sb)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Arsenic (As)	NA	1.93	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS		
Barium (Ba)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Beryllium (Be)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Cadmium (Cd)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS		
Iron (Fe)	NA	1.9	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Nickel (Ni)	NA	2	0.01	0.02	µg/dry g	2	0	100	70 - 130%	PASS		
Selenium (Se)	NA	2.08	0.025	0.05	µg/dry g	2	0	104	70 - 130%	PASS		
Silver (Ag)	NA	0.198	0.01	0.02	µg/dry g	0.2	0	99	70 - 130%	PASS		
Zinc (Zn)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1060	0.00001	0.00002	µg/dry g	1000	0	106	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 20798-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18				Analyzed: 07-Feb-19		
Aluminum (Al)	NA	1.75	1	5	µg/dry g	2	0	88	70 - 130%	PASS	1	30	PASS
Antimony (Sb)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	1	30	PASS
Barium (Ba)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Beryllium (Be)	NA	2.06	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	3	30	PASS
Cadmium (Cd)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Copper (Cu)	NA	2.09	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	0	30	PASS
Iron (Fe)	NA	1.9	1	5	µg/dry g	2	0	95	70 - 130%	PASS	0	30	PASS
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS
Nickel (Ni)	NA	2.02	0.01	0.02	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Selenium (Se)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	0	30	PASS
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%	PASS	3	30	PASS
Zinc (Zn)	NA	1.95	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS	1	30	PASS
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19				Analyzed: 11-Jan-19		
Mercury (Hg)	NA	1050	0.00001	0.00002	µg/dry g	1000	0	105	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
		Method: EPA 6020			Batch ID: E-14071		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7			Batch ID: E-15088		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	ND	0.00001	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.67	1	5	µg/dry g	2	0	83	70 - 130%	PASS		
Antimony (Sb)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Arsenic (As)	NA	1.92	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS		
Barium (Ba)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Beryllium (Be)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS		
Cadmium (Cd)	NA	1.99	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Chromium (Cr)	NA	1.96	0.0025	0.005	µg/dry g	2	0	98	70 - 130%	PASS		
Copper (Cu)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Iron (Fe)	NA	1.89	1	5	µg/dry g	2	0	94	70 - 130%	PASS		
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Nickel (Ni)	NA	1.98	0.01	0.02	µg/dry g	2	0	99	70 - 130%	PASS		
Selenium (Se)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS		
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%	PASS		
Zinc (Zn)	NA	1.91	0.025	0.05	µg/dry g	2	0	95	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	0.00001	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19		
Aluminum (Al)	NA	1.64	1	5	µg/dry g	2	0	82	70 - 130%	PASS	2	30	PASS
Antimony (Sb)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	1	30	PASS
Barium (Ba)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Beryllium (Be)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30	PASS
Cadmium (Cd)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Chromium (Cr)	NA	1.97	0.0025	0.005	µg/dry g	2	0	99	70 - 130%	PASS	0	30	PASS
Copper (Cu)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS
Iron (Fe)	NA	1.87	1	5	µg/dry g	2	0	94	70 - 130%	PASS	0	30	PASS
Lead (Pb)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS
Nickel (Ni)	NA	2	0.01	0.02	µg/dry g	2	0	100	70 - 130%	PASS	1	30	PASS
Selenium (Se)	NA	2.13	0.025	0.05	µg/dry g	2	0	107	70 - 130%	PASS	2	30	PASS
Silver (Ag)	NA	0.206	0.01	0.02	µg/dry g	0.2	0	103	70 - 130%	PASS	1	30	PASS
Zinc (Zn)	NA	1.92	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS	0	30	PASS
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19		
Mercury (Hg)	NA	1070	0.00001	0.00002	µg/dry g	1000	0	107	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56682-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	11900	1	5	µg/dry g	10100		118	42 - 124%	PASS		
Antimony (Sb)	NA	112	0.025	0.05	µg/dry g	145		77	10 - 137%	PASS		
Arsenic (As)	NA	172	0.025	0.05	µg/dry g	171		101	66 - 122%	PASS		
Beryllium (Be)	NA	101	0.025	0.05	µg/dry g	102		99	72 - 120%	PASS		
Cadmium (Cd)	NA	205	0.0025	0.005	µg/dry g	225		91	70 - 117%	PASS		
Chromium (Cr)	NA	156	0.0025	0.005	µg/dry g	144		108	66 - 123%	PASS		
Copper (Cu)	NA	176	0.0025	0.005	µg/dry g	174		101	71 - 119%	PASS		
Iron (Fe)	NA	21700	1	5	µg/dry g	15000		145	33 - 155%	PASS		
Lead (Pb)	NA	108	0.0025	0.005	µg/dry g	111		97	71 - 129%	PASS		
Nickel (Ni)	NA	96.2	0.01	0.02	µg/dry g	98.3		98	65 - 121%	PASS		
Selenium (Se)	NA	219	0.025	0.05	µg/dry g	206		106	64 - 122%	PASS		
Silver (Ag)	NA	42.5	0.01	0.02	µg/dry g	45.5		93	66 - 124%	PASS		
Zinc (Zn)	NA	203	0.025	0.05	µg/dry g	207		98	67 - 125%	PASS		
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.4	0.00001	0.00002	µg/dry g	12		87	57 - 133%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**	
	Method: EPA 6020				Batch ID: E-14071			Prepared: 24-Dec-18			Analyzed: 07-Feb-19	
Aluminum (Al)	NA	38500	1	5	µg/dry g	54.6	41200	-4945	70 - 130% FAIL			SH
Antimony (Sb)	NA	56.4	0.025	0.05	µg/dry g	54.6	0.0917	103	70 - 130% PASS			
Arsenic (As)	NA	70.6	0.025	0.05	µg/dry g	54.6	11.2	109	70 - 130% PASS			
Barium (Ba)	NA	280	0.025	0.05	µg/dry g	54.6	178	187	70 - 130% FAIL			SH
Beryllium (Be)	NA	57.8	0.025	0.05	µg/dry g	54.6	0.717	105	70 - 130% PASS			
Cadmium (Cd)	NA	55.1	0.0025	0.005	µg/dry g	54.6	0.0785	101	70 - 130% PASS			
Chromium (Cr)	NA	96	0.0025	0.005	µg/dry g	54.6	38.8	105	70 - 130% PASS			
Copper (Cu)	NA	104	0.0025	0.005	µg/dry g	54.6	48.5	102	70 - 130% PASS			
Iron (Fe)	NA	38600	1	5	µg/dry g	54.6	39300	-1282	70 - 130% FAIL			SH
Lead (Pb)	NA	66.9	0.0025	0.005	µg/dry g	54.6	15.1	95	70 - 130% PASS			
Nickel (Ni)	NA	72.9	0.01	0.02	µg/dry g	54.6	15.7	105	70 - 130% PASS			
Selenium (Se)	NA	62.4	0.025	0.05	µg/dry g	54.6	0.242	114	70 - 130% PASS			
Silver (Ag)	NA	5.62	0.01	0.02	µg/dry g	5.46	0.12	101	70 - 130% PASS			
Zinc (Zn)	NA	164	0.025	0.05	µg/dry g	54.6	110	99	70 - 130% PASS			
	Method: EPA 245.7				Batch ID: E-15088			Prepared: 11-Jan-19			Analyzed: 11-Jan-19	
Mercury (Hg)	NA	0.248	0.00001	0.00002	µg/dry g	0.136	0.0793	124	70 - 130% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 6020				Batch ID: E-14071			Prepared: 24-Dec-18			Analyzed: 07-Feb-19			
Aluminum (Al)	NA	38100	1	5	µg/dry g	54.6	41200	-5678	70 - 130%	FAIL	14	30	PASS	SH
Antimony (Sb)	NA	56.3	0.025	0.05	µg/dry g	54.6	0.0917	103	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	70	0.025	0.05	µg/dry g	54.6	11.2	108	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	278	0.025	0.05	µg/dry g	54.6	178	183	70 - 130%	FAIL	2	30	PASS	SH
Beryllium (Be)	NA	56.6	0.025	0.05	µg/dry g	54.6	0.717	102	70 - 130%	PASS	3	30	PASS	
Cadmium (Cd)	NA	54.7	0.0025	0.005	µg/dry g	54.6	0.0785	100	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	95.9	0.0025	0.005	µg/dry g	54.6	38.8	105	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	104	0.0025	0.005	µg/dry g	54.6	48.5	102	70 - 130%	PASS	0	30	PASS	
Iron (Fe)	NA	38300	1	5	µg/dry g	54.6	39300	-1832	70 - 130%	FAIL	35	30	FAIL	SH
Lead (Pb)	NA	66.9	0.0025	0.005	µg/dry g	54.6	15.1	95	70 - 130%	PASS	0	30	PASS	
Nickel (Ni)	NA	72.1	0.01	0.02	µg/dry g	54.6	15.7	103	70 - 130%	PASS	2	30	PASS	
Selenium (Se)	NA	63	0.025	0.05	µg/dry g	54.6	0.242	115	70 - 130%	PASS	1	30	PASS	
Silver (Ag)	NA	5.63	0.01	0.02	µg/dry g	5.46	0.12	101	70 - 130%	PASS	0	30	PASS	
Zinc (Zn)	NA	163	0.025	0.05	µg/dry g	54.6	110	97	70 - 130%	PASS	2	30	PASS	
	Method: EPA 245.7				Batch ID: E-15088			Prepared: 11-Jan-19			Analyzed: 11-Jan-19			
Mercury (Hg)	NA	0.251	0.00001	0.00002	µg/dry g	0.136	0.0793	126	70 - 130%	PASS	2	30	PASS	Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**			**Received: 27-Jul-18**		
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	41700	1	5	µg/dry g					2	30 PASS	
Antimony (Sb)	NA	0.103	0.025	0.05	µg/dry g					25	30 PASS	
Arsenic (As)	NA	10.7	0.025	0.05	µg/dry g					8	30 PASS	
Barium (Ba)	NA	129	0.025	0.05	µg/dry g					55	30 FAIL	NH
Beryllium (Be)	NA	0.642	0.025	0.05	µg/dry g					21	30 PASS	
Cadmium (Cd)	NA	0.0809	0.0025	0.005	µg/dry g					6	30 PASS	
Chromium (Cr)	NA	38.8	0.0025	0.005	µg/dry g					0	30 PASS	
Copper (Cu)	NA	47.9	0.0025	0.005	µg/dry g					2	30 PASS	
Iron (Fe)	NA	39200	1	5	µg/dry g					1	30 PASS	
Lead (Pb)	NA	15	0.0025	0.005	µg/dry g					1	30 PASS	
Nickel (Ni)	NA	15.7	0.01	0.02	µg/dry g					1	30 PASS	
Selenium (Se)	NA	0.241	0.025	0.05	µg/dry g					1	30 PASS	
Silver (Ag)	NA	0.121	0.01	0.02	µg/dry g					2	30 PASS	
Zinc (Zn)	NA	109	0.025	0.05	µg/dry g					3	30 PASS	
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.0782	0.00001	0.00002	µg/dry g					3	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 60151-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 6020				Batch ID: E-14070		Prepared: 24-Dec-18			Analyzed: 07-Feb-19		
Aluminum (Al)	NA	12800	1	5	µg/dry g	10100	127	42 - 124%	FAIL			1
Antimony (Sb)	NA	115	0.025	0.05	µg/dry g	145	79	10 - 137%	PASS			
Arsenic (As)	NA	177	0.025	0.05	µg/dry g	171	104	66 - 122%	PASS			
Beryllium (Be)	NA	104	0.025	0.05	µg/dry g	102	102	72 - 120%	PASS			
Cadmium (Cd)	NA	216	0.0025	0.005	µg/dry g	225	96	70 - 117%	PASS			
Chromium (Cr)	NA	158	0.0025	0.005	µg/dry g	144	110	66 - 123%	PASS			
Copper (Cu)	NA	174	0.0025	0.005	µg/dry g	174	100	71 - 119%	PASS			
Iron (Fe)	NA	22300	1	5	µg/dry g	15000	149	33 - 155%	PASS			
Lead (Pb)	NA	111	0.0025	0.005	µg/dry g	111	100	71 - 129%	PASS			
Nickel (Ni)	NA	96.6	0.01	0.02	µg/dry g	98.3	98	65 - 121%	PASS			
Selenium (Se)	NA	219	0.025	0.05	µg/dry g	206	106	64 - 122%	PASS			
Silver (Ag)	NA	42.6	0.01	0.02	µg/dry g	45.5	94	66 - 124%	PASS			
Zinc (Zn)	NA	209	0.025	0.05	µg/dry g	207	101	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15087		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	10.3	0.00001	0.00002	µg/dry g	12	86	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20798-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 14-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 20798-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00874	0.0018	0.0036	µmol/dry g	0.0089	0	98	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0161	0.0062	0.0124	µmol/dry g	0.0157	0	103	80 - 120%	PASS				
Lead (Pb) - SEM	NA	0.00487	0.0002	0.0004	µmol/dry g	0.0048	0	101	80 - 120%	PASS				
Nickel (Ni) - SEM	NA	0.0172	0.0033	0.0066	µmol/dry g	0.017	0	101	80 - 120%	PASS				
Silver (Ag) - SEM	NA	0.00073	0.0047	0.0094	µmol/dry g	0.0009	0	79	80 - 120%	PASS				
Zinc (Zn) - SEM	NA	0.0154	0.0015	0.003	µmol/dry g	0.0153	0	101	80 - 120%	PASS				
Sample ID: 20798-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17002		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00871	0.0018	0.0036	µmol/dry g	0.0089	0	98	70 - 130%	PASS	0	30	PASS	
Copper (Cu) - SEM	NA	0.0162	0.0062	0.0124	µmol/dry g	0.0157	0	103	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.00483	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS	1	30	PASS	
Nickel (Ni) - SEM	NA	0.0173	0.0033	0.0066	µmol/dry g	0.017	0	102	70 - 130%	PASS	1	30	PASS	
Silver (Ag) - SEM	NA	0.000777	0.0047	0.0094	µmol/dry g	0.0009	0	84	70 - 130%	PASS	6	30	PASS	
Zinc (Zn) - SEM	NA	0.0156	0.0015	0.003	µmol/dry g	0.0153	0	102	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 14-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00863	0.0018	0.0036	µmol/dry g	0.0089	0	97	80 - 120%	PASS				
Copper (Cu) - SEM	NA	0.0164	0.0062	0.0124	µmol/dry g	0.0157	0	104	80 - 120%	PASS				
Lead (Pb) - SEM	NA	0.00485	0.0002	0.0004	µmol/dry g	0.0048	0	100	80 - 120%	PASS				
Nickel (Ni) - SEM	NA	0.017	0.0033	0.0066	µmol/dry g	0.017	0	100	80 - 120%	PASS				
Silver (Ag) - SEM	NA	0.000773	0.0047	0.0094	µmol/dry g	0.0009	0	83	80 - 120%	PASS				
Zinc (Zn) - SEM	NA	0.0149	0.0015	0.003	µmol/dry g	0.0153	0	97	80 - 120%	PASS				
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00861	0.0018	0.0036	µmol/dry g	0.0089	0	97	70 - 130%	PASS	0	30	PASS	
Copper (Cu) - SEM	NA	0.0164	0.0062	0.0124	µmol/dry g	0.0157	0	104	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.00483	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS	0	30	PASS	
Nickel (Ni) - SEM	NA	0.017	0.0033	0.0066	µmol/dry g	0.017	0	100	70 - 130%	PASS	0	30	PASS	
Silver (Ag) - SEM	NA	0.000781	0.0047	0.0094	µmol/dry g	0.0009	0	84	70 - 130%	PASS	1	30	PASS	
Zinc (Zn) - SEM	NA	0.0149	0.0015	0.003	µmol/dry g	0.0153	0	97	70 - 130%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19			Analyzed: 14-Jan-19			
Cadmium (Cd) - SEM	NA	0.413	0.0018	0.0036	µmol/dry g	0.412	0	100	70 - 130%	PASS			
Copper (Cu) - SEM	NA	0.988	0.0062	0.0124	µmol/dry g	0.729	0.242	102	70 - 130%	PASS			
Lead (Pb) - SEM	NA	0.25	0.0002	0.0004	µmol/dry g	0.223	0.0332	97	70 - 130%	PASS			
Nickel (Ni) - SEM	NA	0.81	0.0033	0.0066	µmol/dry g	0.789	0.0126	101	70 - 130%	PASS			
Silver (Ag) - SEM	NA	0.0451	0.0047	0.0094	µmol/dry g	0.0429	0	105	70 - 130%	PASS			
Zinc (Zn) - SEM	NA	1.27	0.0015	0.003	µmol/dry g	0.708	0.59	96	70 - 130%	PASS			
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19			Analyzed: 14-Jan-19			
Cadmium (Cd) - SEM	NA	0.413	0.0018	0.0036	µmol/dry g	0.412	0	100	70 - 130%	PASS	0	30	PASS
Copper (Cu) - SEM	NA	0.999	0.0062	0.0124	µmol/dry g	0.729	0.242	104	70 - 130%	PASS	2	30	PASS
Lead (Pb) - SEM	NA	0.251	0.0002	0.0004	µmol/dry g	0.223	0.0332	98	70 - 130%	PASS	1	30	PASS
Nickel (Ni) - SEM	NA	0.817	0.0033	0.0066	µmol/dry g	0.789	0.0126	102	70 - 130%	PASS	1	30	PASS
Silver (Ag) - SEM	NA	0.0439	0.0047	0.0094	µmol/dry g	0.0429	0	102	70 - 130%	PASS	3	30	PASS
Zinc (Zn) - SEM	NA	1.3	0.0015	0.003	µmol/dry g	0.708	0.59	100	70 - 130%	PASS	4	30	PASS
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19			Analyzed: 14-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS
Copper (Cu) - SEM	NA	0.242	0.0062	0.0124	µmol/dry g						0	30	PASS
Lead (Pb) - SEM	NA	0.0332	0.0002	0.0004	µmol/dry g						0	30	PASS
Nickel (Ni) - SEM	NA	0.0127	0.0033	0.0066	µmol/dry g						2	30	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS
Zinc (Zn) - SEM	NA	0.586	0.0015	0.003	µmol/dry g						1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	536	0.25	0.5	ng/dry g	500	0	107	60 - 140% PASS				
Fipronil Desulfinyl	NA	514	0.25	0.5	ng/dry g	500	0	103	60 - 140% PASS				
Fipronil Sulfide	NA	538	0.25	0.5	ng/dry g	500	0	108	60 - 140% PASS				
Fipronil Sulfone	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS				
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	519	0.25	0.5	ng/dry g	500	0	104	60 - 140% PASS	3	30	PASS	
Fipronil Desulfinyl	NA	563	0.25	0.5	ng/dry g	500	0	113	60 - 140% PASS	9	30	PASS	
Fipronil Sulfide	NA	508	0.25	0.5	ng/dry g	500	0	102	60 - 140% PASS	6	30	PASS	
Fipronil Sulfone	NA	409	0.25	0.5	ng/dry g	500	0	82	60 - 140% PASS	1	30	PASS	
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**			**Received: 27-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	97.5	0.25	0.5	ng/dry g	96.5	0	101	60 - 140% PASS				
Fipronil Desulfinyl	NA	127	0.25	0.5	ng/dry g	96.5	0	132	60 - 140% PASS				
Fipronil Sulfide	NA	97.8	0.25	0.5	ng/dry g	96.5	0	101	60 - 140% PASS				
Fipronil Sulfone	NA	72.6	0.25	0.5	ng/dry g	96.5	0	75	60 - 140% PASS				
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**			**Received: 27-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	97.3	0.25	0.5	ng/dry g	96.6	0	101	60 - 140% PASS	0	30	PASS	
Fipronil Desulfinyl	NA	127	0.25	0.5	ng/dry g	96.6	0	131	60 - 140% PASS	1	30	PASS	
Fipronil Sulfide	NA	97	0.25	0.5	ng/dry g	96.6	0	100	60 - 140% PASS	1	30	PASS	
Fipronil Sulfone	NA	70.8	0.25	0.5	ng/dry g	96.6	0	73	60 - 140% PASS	3	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19		
Fipronil	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g					0	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1109		Prepared: 21-Jan-19			Analyzed: 21-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56685-R2	**B18-10124**				**Matrix: Sediment**		**Sampled: 26-Jul-18 9:30**			**Received: 27-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1109		Prepared: 21-Jan-19			Analyzed: 21-Jan-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 10.0	NA	2.8	0.1	0.1	%					4	20 PASS	
Phi 10.5	NA	2.4	0.1	0.1	%					0	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.5	NA	0.1	0.1	0.1	%					0	20 PASS	J
Phi 3.0	NA	2.9	0.1	0.1	%					3	20 PASS	
Phi 3.5	NA	4.3	0.1	0.1	%					2	20 PASS	
Phi 4.0	NA	5.2	0.1	0.1	%					2	20 PASS	
Phi 4.5	NA	6.5	0.1	0.1	%					6	20 PASS	
Phi 5.0	NA	9	0.1	0.1	%					2	20 PASS	
Phi 5.5	NA	5.6	0.1	0.1	%					0	20 PASS	
Phi 6.0	NA	10.4	0.1	0.1	%					0	20 PASS	
Phi 6.5	NA	7.1	0.1	0.1	%					0	20 PASS	
Phi 7.0	NA	11.5	0.1	0.1	%					1	20 PASS	
Phi 7.5	NA	6.3	0.1	0.1	%					0	20 PASS	
Phi 8.0	NA	8.6	0.1	0.1	%					0	20 PASS	
Phi 8.5	NA	7.2	0.1	0.1	%					3	20 PASS	
Phi 9.0	NA	6.7	0.1	0.1	%					2	20 PASS	
Phi 9.5	NA	3.3	0.1	0.1	%					0	20 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB003	NA	41.6	0.1	0.2	ng/dry g	50	0	83	60 - 140%		PASS	
PCB005	NA	40.9	0.1	0.2	ng/dry g	50	0	82	60 - 140%		PASS	
PCB008	NA	42.3	0.017	0.2	ng/dry g	50	0	85	60 - 140%		PASS	
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB018	NA	47.1	0.029	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB027	NA	46.8	0.1	0.2	ng/dry g	50	0	94	60 - 140%		PASS	
PCB028	NA	48	0.023	0.2	ng/dry g	50	0	96	60 - 140%		PASS	
PCB029	NA	53.7	0.1	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB031	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB033	NA	53.3	0.1	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB037	NA	53.3	0.06	0.2	ng/dry g	50	0	107	60 - 140%		PASS	
PCB044	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB049	NA	51.7	0.036	0.2	ng/dry g	50	0	103	60 - 140%		PASS	
PCB052	NA	50.1	0.012	0.2	ng/dry g	50	0	100	60 - 140%		PASS	
PCB056(060)	NA	52	0.1	0.2	ng/dry g	50	0	104	60 - 140%		PASS	
PCB066	NA	55.7	0.027	0.2	ng/dry g	50	0	111	60 - 140%		PASS	
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%		PASS	
PCB074	NA	55.7	0.021	0.2	ng/dry g	50	0	111	60 - 140%		PASS	
PCB077	NA	58.3	0.018	0.2	ng/dry g	50	0	117	60 - 140%		PASS	
PCB081	NA	58.9	0.084	0.2	ng/dry g	50	0	118	60 - 140%		PASS	
PCB087	NA	55.3	0.081	0.2	ng/dry g	50	0	111	60 - 140%		PASS	
PCB095	NA	48.5	0.1	0.2	ng/dry g	50	0	97	60 - 140%		PASS	
PCB097	NA	58.6	0.1	0.2	ng/dry g	50	0	117	60 - 140%		PASS	
PCB099	NA	50.6	0.028	0.2	ng/dry g	50	0	101	60 - 140%		PASS	
PCB101	NA	51.2	0.027	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB105	NA	41.9	0.047	0.2	ng/dry g	50	0	84	60 - 140%		PASS	
PCB110	NA	52.3	0.074	0.2	ng/dry g	50	0	105	60 - 140%		PASS	
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140%		PASS	
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	51.1	0.071	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS			
PCB126	NA	50.2	0.086	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB128	NA	54	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS			
PCB137	NA	42.4	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS			
PCB138	NA	42.9	0.057	0.2	ng/dry g	50	0	86	60 - 140%	PASS			
PCB141	NA	39.8	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS			
PCB149	NA	45.5	0.092	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB151	NA	58.5	0.073	0.2	ng/dry g	50	0	117	60 - 140%	PASS			
PCB153	NA	46.3	0.065	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB156	NA	62.5	0.089	0.2	ng/dry g	50	0	125	60 - 140%	PASS			
PCB157	NA	44.4	0.103	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB158	NA	46.1	0.074	0.2	ng/dry g	50	0	92	60 - 140%	PASS			
PCB167	NA	57.3	0.049	0.2	ng/dry g	50	0	115	60 - 140%	PASS			
PCB168+132	NA	85.6	0.094	0.2	ng/dry g	100	0	86	60 - 140%	PASS			
PCB169	NA	70.9	0.116	0.2	ng/dry g	50	0	142	60 - 140%	FAIL			Q
PCB170	NA	55.4	0.118	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB174	NA	51.2	0.12	0.25	ng/dry g	50	0	102	60 - 140%	PASS			
PCB177	NA	59.4	0.085	0.25	ng/dry g	50	0	119	60 - 140%	PASS			
PCB180	NA	63.8	0.154	0.25	ng/dry g	50	0	128	60 - 140%	PASS			
PCB183	NA	53.3	0.056	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB187	NA	58.8	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	68	0.109	0.25	ng/dry g	50	0	136	60 - 140%	PASS			
PCB194	NA	71.9	0.164	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB195	NA	63.1	0.093	0.25	ng/dry g	50	0	126	60 - 140%	PASS			
PCB199(200)	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB201	NA	41.8	0.104	0.25	ng/dry g	50	0	84	60 - 140%	PASS			
PCB203	NA	57.9	0.12	0.25	ng/dry g	50	0	116	60 - 140%	PASS			
PCB206	NA	72.2	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB209	NA	65.1	0.12	0.25	ng/dry g	50	0	130	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
PCB003	NA	38.4	0.1	0.2	ng/dry g	50	0	77	60 - 140%	PASS	8	30	PASS
PCB005	NA	40.1	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS	2	30	PASS
PCB008	NA	38.3	0.017	0.2	ng/dry g	50	0	77	60 - 140%	PASS	10	30	PASS
PCB015	NA	47.8	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS	5	30	PASS
PCB018	NA	44.7	0.029	0.2	ng/dry g	50	0	89	60 - 140%	PASS	5	30	PASS
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	4	30	PASS
PCB028	NA	45.1	0.023	0.2	ng/dry g	50	0	90	60 - 140%	PASS	6	30	PASS
PCB029	NA	50.7	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	6	30	PASS
PCB031	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	5	30	PASS
PCB033	NA	49.8	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS
PCB037	NA	50	0.06	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS
PCB044	NA	48.1	0.028	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS
PCB049	NA	47.8	0.036	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS
PCB052	NA	47.7	0.012	0.2	ng/dry g	50	0	95	60 - 140%	PASS	5	30	PASS
PCB056(060)	NA	47.7	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	9	30	PASS
PCB066	NA	52.2	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	7	30	PASS
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%	PASS	0	30	PASS
PCB074	NA	50.3	0.021	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS
PCB077	NA	53.8	0.018	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS
PCB081	NA	55.3	0.084	0.2	ng/dry g	50	0	111	60 - 140%	PASS	6	30	PASS
PCB087	NA	50.6	0.081	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS
PCB095	NA	44.8	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	7	30	PASS
PCB097	NA	53.9	0.1	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS
PCB099	NA	47.6	0.028	0.2	ng/dry g	50	0	95	60 - 140%	PASS	6	30	PASS
PCB101	NA	48.1	0.027	0.2	ng/dry g	50	0	96	60 - 140%	PASS	6	30	PASS
PCB105	NA	38.6	0.047	0.2	ng/dry g	50	0	77	60 - 140%	PASS	9	30	PASS
PCB110	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS	8	30	PASS
PCB114	NA	49.1	0.072	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS
PCB118	NA	48.6	0.069	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	47.7	0.071	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB123	NA	46.1	0.018	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS	
PCB126	NA	48.4	0.086	0.2	ng/dry g	50	0	97	60 - 140%	PASS	3	30	PASS	
PCB128	NA	53.6	0.081	0.2	ng/dry g	50	0	107	60 - 140%	PASS	1	30	PASS	
PCB137	NA	40.4	0.1	0.2	ng/dry g	50	0	81	60 - 140%	PASS	5	30	PASS	
PCB138	NA	42.1	0.057	0.2	ng/dry g	50	0	84	60 - 140%	PASS	2	30	PASS	
PCB141	NA	37.7	0.1	0.2	ng/dry g	50	0	75	60 - 140%	PASS	6	30	PASS	
PCB149	NA	42.6	0.092	0.2	ng/dry g	50	0	85	60 - 140%	PASS	7	30	PASS	
PCB151	NA	55	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	6	30	PASS	
PCB153	NA	43.6	0.065	0.2	ng/dry g	50	0	87	60 - 140%	PASS	7	30	PASS	
PCB156	NA	59.5	0.089	0.2	ng/dry g	50	0	119	60 - 140%	PASS	5	30	PASS	
PCB157	NA	45.3	0.103	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB158	NA	43.4	0.074	0.2	ng/dry g	50	0	87	60 - 140%	PASS	6	30	PASS	
PCB167	NA	54.1	0.049	0.2	ng/dry g	50	0	108	60 - 140%	PASS	6	30	PASS	
PCB168+132	NA	78.9	0.094	0.2	ng/dry g	100	0	79	60 - 140%	PASS	8	30	PASS	
PCB169	NA	76.1	0.116	0.2	ng/dry g	50	0	152	60 - 140%	FAIL	7	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	2	30	PASS	
PCB174	NA	49.9	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PCB177	NA	56.8	0.085	0.25	ng/dry g	50	0	114	60 - 140%	PASS	4	30	PASS	
PCB180	NA	62.8	0.154	0.25	ng/dry g	50	0	126	60 - 140%	PASS	2	30	PASS	
PCB183	NA	49.6	0.056	0.25	ng/dry g	50	0	99	60 - 140%	PASS	8	30	PASS	
PCB187	NA	54.2	0.168	0.25	ng/dry g	50	0	108	60 - 140%	PASS	9	30	PASS	
PCB189	NA	75.6	0.109	0.25	ng/dry g	50	0	151	60 - 140%	FAIL	10	30	PASS	Q
PCB194	NA	74.3	0.164	0.25	ng/dry g	50	0	149	60 - 140%	FAIL	3	30	PASS	
PCB195	NA	65.9	0.093	0.25	ng/dry g	50	0	132	60 - 140%	PASS	5	30	PASS	
PCB199(200)	NA	56.1	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	2	30	PASS	
PCB201	NA	40.7	0.104	0.25	ng/dry g	50	0	81	60 - 140%	PASS	4	30	PASS	
PCB203	NA	58.3	0.12	0.25	ng/dry g	50	0	117	60 - 140%	PASS	1	30	PASS	
PCB206	NA	72	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	0	30	PASS	Q
PCB209	NA	66.3	0.12	0.25	ng/dry g	50	0	133	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56683-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB008	NA	27.2	0.017	0.2	ng/dry g	22.3	122	60 - 140%	PASS			
PCB018	NA	47.7	0.029	0.2	ng/dry g	51	94	60 - 140%	PASS			
PCB028	NA	78.1	0.023	0.2	ng/dry g	80.8	97	60 - 140%	PASS			
PCB044	NA	43.3	0.028	0.2	ng/dry g	60.2	72	60 - 140%	PASS			
PCB049	NA	43.2	0.036	0.2	ng/dry g	53	82	60 - 140%	PASS			
PCB052	NA	65.8	0.012	0.2	ng/dry g	79.4	83	60 - 140%	PASS			
PCB066	NA	54.9	0.027	0.2	ng/dry g	71.9	76	60 - 140%	PASS			
PCB087	NA	19.6	0.081	0.2	ng/dry g	29.9	66	60 - 140%	PASS			
PCB099	NA	23.2	0.028	0.2	ng/dry g	37.5	62	60 - 140%	PASS			
PCB101	NA	52.1	0.027	0.2	ng/dry g	73.4	71	60 - 140%	PASS			
PCB105	NA	8.7	0.047	0.2	ng/dry g	24.5	36	60 - 140%	FAIL			1
PCB110	NA	46.8	0.074	0.2	ng/dry g	63.5	74	60 - 140%	PASS			
PCB118	NA	34.9	0.069	0.2	ng/dry g	58	60	60 - 140%	PASS			
PCB128	NA	3.05	0.081	0.2	ng/dry g	8.5	36	60 - 140%	FAIL			1
PCB138	NA	52.3	0.057	0.2	ng/dry g	62.1	84	60 - 140%	PASS			
PCB149	NA	36.4	0.092	0.2	ng/dry g	49.7	73	60 - 140%	PASS			
PCB151	NA	14.7	0.073	0.2	ng/dry g	16.9	87	60 - 140%	PASS			
PCB153	NA	55.9	0.065	0.2	ng/dry g	74	76	60 - 140%	PASS			
PCB156	NA	2.53	0.089	0.2	ng/dry g	6.5	39	60 - 140%	FAIL			1
PCB174	NA	16.1	0.12	0.25	ng/dry g	16	101	60 - 140%	PASS			
PCB180	NA	38.5	0.154	0.25	ng/dry g	44.3	87	60 - 140%	PASS			
PCB183	NA	10.7	0.056	0.25	ng/dry g	12.2	88	60 - 140%	PASS			
PCB187	NA	25.3	0.168	0.25	ng/dry g	25.1	101	60 - 140%	PASS			
PCB194	NA	9.72	0.164	0.25	ng/dry g	11.2	87	60 - 140%	PASS			
PCB195	NA	3.32	0.093	0.25	ng/dry g	3.8	87	60 - 140%	PASS			
PCB206	NA	6.98	0.155	0.25	ng/dry g	9.2	76	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
PCB003	NA	7.72	0.1	0.2	ng/dry g	9.65	0	80	60 - 140%	PASS		
PCB005	NA	7.28	0.1	0.2	ng/dry g	9.65	0	75	60 - 140%	PASS		
PCB008	NA	7.83	0.017	0.2	ng/dry g	9.65	0	81	60 - 140%	PASS		
PCB015	NA	9.17	0.1	0.2	ng/dry g	9.65	0	95	60 - 140%	PASS		
PCB018	NA	8.31	0.029	0.2	ng/dry g	9.65	0	86	60 - 140%	PASS		
PCB027	NA	8.66	0.1	0.2	ng/dry g	9.65	0	90	60 - 140%	PASS		
PCB028	NA	9.3	0.023	0.2	ng/dry g	9.65	0	96	60 - 140%	PASS		
PCB029	NA	10.6	0.1	0.2	ng/dry g	9.65	0	110	60 - 140%	PASS		
PCB031	NA	10.3	0.1	0.2	ng/dry g	9.65	0	107	60 - 140%	PASS		
PCB033	NA	10.5	0.1	0.2	ng/dry g	9.65	0	109	60 - 140%	PASS		
PCB037	NA	10.6	0.06	0.2	ng/dry g	9.65	0	110	60 - 140%	PASS		
PCB044	NA	9.9	0.028	0.2	ng/dry g	9.65	0	103	60 - 140%	PASS		
PCB049	NA	9.43	0.036	0.2	ng/dry g	9.65	0	98	60 - 140%	PASS		
PCB052	NA	9.73	0.012	0.2	ng/dry g	9.65	0	101	60 - 140%	PASS		
PCB056(060)	NA	9.58	0.1	0.2	ng/dry g	9.65	0	99	60 - 140%	PASS		
PCB066	NA	10.9	0.027	0.2	ng/dry g	9.65	0	113	60 - 140%	PASS		
PCB070	NA	11.2	0.023	0.2	ng/dry g	9.65	0	116	60 - 140%	PASS		
PCB074	NA	11	0.021	0.2	ng/dry g	9.65	0	114	60 - 140%	PASS		
PCB077	NA	11.5	0.018	0.2	ng/dry g	9.65	0	119	60 - 140%	PASS		
PCB081	NA	11.2	0.084	0.2	ng/dry g	9.65	0	116	60 - 140%	PASS		
PCB087	NA	10.4	0.081	0.2	ng/dry g	9.65	0	108	60 - 140%	PASS		
PCB095	NA	9.29	0.1	0.2	ng/dry g	9.65	0.143	95	60 - 140%	PASS		
PCB097	NA	11.6	0.1	0.2	ng/dry g	9.65	0	120	60 - 140%	PASS		
PCB099	NA	9.99	0.028	0.2	ng/dry g	9.65	0.147	102	60 - 140%	PASS		
PCB101	NA	9.62	0.027	0.2	ng/dry g	9.65	0.215	97	60 - 140%	PASS		
PCB105	NA	7.93	0.047	0.2	ng/dry g	9.65	0	82	60 - 140%	PASS		
PCB110	NA	10.4	0.074	0.2	ng/dry g	9.65	0	108	60 - 140%	PASS		
PCB114	NA	10.1	0.072	0.2	ng/dry g	9.65	0	105	60 - 140%	PASS		
PCB118	NA	10.5	0.069	0.2	ng/dry g	9.65	0	109	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	10.2	0.071	0.2	ng/dry g	9.65	0	106	60 - 140%	PASS			
PCB123	NA	9.68	0.018	0.2	ng/dry g	9.65	0	100	60 - 140%	PASS			
PCB126	NA	9.87	0.086	0.2	ng/dry g	9.65	0	102	60 - 140%	PASS			
PCB128	NA	11.3	0.081	0.2	ng/dry g	9.65	0	117	60 - 140%	PASS			
PCB137	NA	8.43	0.1	0.2	ng/dry g	9.65	0	87	60 - 140%	PASS			
PCB138	NA	9.22	0.057	0.2	ng/dry g	9.65	0.367	92	60 - 140%	PASS			
PCB141	NA	8	0.1	0.2	ng/dry g	9.65	0	83	60 - 140%	PASS			
PCB149	NA	8.96	0.092	0.2	ng/dry g	9.65	0.225	91	60 - 140%	PASS			
PCB151	NA	11.7	0.073	0.2	ng/dry g	9.65	0	121	60 - 140%	PASS			
PCB153	NA	9.52	0.065	0.2	ng/dry g	9.65	0.406	94	60 - 140%	PASS			
PCB156	NA	11.8	0.089	0.2	ng/dry g	9.65	0	122	60 - 140%	PASS			
PCB157	NA	7.89	0.103	0.2	ng/dry g	9.65	0	82	60 - 140%	PASS			
PCB158	NA	8.87	0.074	0.2	ng/dry g	9.65	0	92	60 - 140%	PASS			
PCB167	NA	10.8	0.049	0.2	ng/dry g	9.65	0	112	60 - 140%	PASS			
PCB168+132	NA	15.7	0.094	0.2	ng/dry g	19.3	0	81	60 - 140%	PASS			
PCB169	NA	12.3	0.116	0.2	ng/dry g	9.65	0	127	60 - 140%	PASS			
PCB170	NA	11.6	0.118	0.25	ng/dry g	9.65	0	120	60 - 140%	PASS			
PCB174	NA	9.55	0.12	0.25	ng/dry g	9.65	0	99	60 - 140%	PASS			
PCB177	NA	10.8	0.085	0.25	ng/dry g	9.65	0	112	60 - 140%	PASS			
PCB180	NA	11.7	0.154	0.25	ng/dry g	9.65	0.363	117	60 - 140%	PASS			
PCB183	NA	10.2	0.056	0.25	ng/dry g	9.65	0	106	60 - 140%	PASS			
PCB187	NA	10.5	0.168	0.25	ng/dry g	9.65	0.235	106	60 - 140%	PASS			
PCB189	NA	13.5	0.109	0.25	ng/dry g	9.65	0	140	60 - 140%	PASS			
PCB194	NA	14.3	0.164	0.25	ng/dry g	9.65	0	148	60 - 140%	FAIL			M
PCB195	NA	12.7	0.093	0.25	ng/dry g	9.65	0	132	60 - 140%	PASS			
PCB199(200)	NA	9.38	0.12	0.25	ng/dry g	9.65	0	97	60 - 140%	PASS			
PCB201	NA	7.69	0.104	0.25	ng/dry g	9.65	0	80	60 - 140%	PASS			
PCB203	NA	10.7	0.12	0.25	ng/dry g	9.65	0	111	60 - 140%	PASS			
PCB206	NA	13.3	0.155	0.25	ng/dry g	9.65	0.0898	137	60 - 140%	PASS			
PCB209	NA	11	0.12	0.25	ng/dry g	9.65	0.079	113	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**		**8:00**		**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
PCB003	NA	7.73	0.1	0.2	ng/dry g	9.66	0	80	60 - 140%	PASS	0	30	PASS	
PCB005	NA	8.55	0.1	0.2	ng/dry g	9.66	0	89	60 - 140%	PASS	17	30	PASS	
PCB008	NA	7.72	0.017	0.2	ng/dry g	9.66	0	80	60 - 140%	PASS	1	30	PASS	
PCB015	NA	9.5	0.1	0.2	ng/dry g	9.66	0	98	60 - 140%	PASS	3	30	PASS	
PCB018	NA	8.6	0.029	0.2	ng/dry g	9.66	0	89	60 - 140%	PASS	3	30	PASS	
PCB027	NA	8.91	0.1	0.2	ng/dry g	9.66	0	92	60 - 140%	PASS	2	30	PASS	
PCB028	NA	9.86	0.023	0.2	ng/dry g	9.66	0	102	60 - 140%	PASS	6	30	PASS	
PCB029	NA	10.7	0.1	0.2	ng/dry g	9.66	0	111	60 - 140%	PASS	1	30	PASS	
PCB031	NA	10.6	0.1	0.2	ng/dry g	9.66	0	110	60 - 140%	PASS	3	30	PASS	
PCB033	NA	11	0.1	0.2	ng/dry g	9.66	0	114	60 - 140%	PASS	4	30	PASS	
PCB037	NA	11.5	0.06	0.2	ng/dry g	9.66	0	119	60 - 140%	PASS	8	30	PASS	
PCB044	NA	10.2	0.028	0.2	ng/dry g	9.66	0	106	60 - 140%	PASS	3	30	PASS	
PCB049	NA	11.2	0.036	0.2	ng/dry g	9.66	0	116	60 - 140%	PASS	17	30	PASS	
PCB052	NA	10.3	0.012	0.2	ng/dry g	9.66	0	107	60 - 140%	PASS	6	30	PASS	
PCB056(060)	NA	10.2	0.1	0.2	ng/dry g	9.66	0	106	60 - 140%	PASS	7	30	PASS	
PCB066	NA	11.5	0.027	0.2	ng/dry g	9.66	0	119	60 - 140%	PASS	5	30	PASS	
PCB070	NA	11.6	0.023	0.2	ng/dry g	9.66	0	120	60 - 140%	PASS	3	30	PASS	
PCB074	NA	11.2	0.021	0.2	ng/dry g	9.66	0	116	60 - 140%	PASS	2	30	PASS	
PCB077	NA	12.3	0.018	0.2	ng/dry g	9.66	0	127	60 - 140%	PASS	7	30	PASS	
PCB081	NA	12.6	0.084	0.2	ng/dry g	9.66	0	130	60 - 140%	PASS	11	30	PASS	
PCB087	NA	11.5	0.081	0.2	ng/dry g	9.66	0	119	60 - 140%	PASS	10	30	PASS	
PCB095	NA	9.76	0.1	0.2	ng/dry g	9.66	0.143	100	60 - 140%	PASS	5	30	PASS	
PCB097	NA	12.1	0.1	0.2	ng/dry g	9.66	0	125	60 - 140%	PASS	4	30	PASS	
PCB099	NA	10.7	0.028	0.2	ng/dry g	9.66	0.147	109	60 - 140%	PASS	7	30	PASS	
PCB101	NA	10.7	0.027	0.2	ng/dry g	9.66	0.215	109	60 - 140%	PASS	12	30	PASS	
PCB105	NA	8.41	0.047	0.2	ng/dry g	9.66	0	87	60 - 140%	PASS	6	30	PASS	
PCB110	NA	11	0.074	0.2	ng/dry g	9.66	0	114	60 - 140%	PASS	5	30	PASS	
PCB114	NA	11.2	0.072	0.2	ng/dry g	9.66	0	116	60 - 140%	PASS	10	30	PASS	
PCB118	NA	11	0.069	0.2	ng/dry g	9.66	0	114	60 - 140%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	10.6	0.071	0.2	ng/dry g	9.66	0	110	60 - 140%	PASS	4	30	PASS	
PCB123	NA	10.5	0.018	0.2	ng/dry g	9.66	0	109	60 - 140%	PASS	9	30	PASS	
PCB126	NA	11.2	0.086	0.2	ng/dry g	9.66	0	116	60 - 140%	PASS	13	30	PASS	
PCB128	NA	12.1	0.081	0.2	ng/dry g	9.66	0	125	60 - 140%	PASS	7	30	PASS	
PCB137	NA	9.21	0.1	0.2	ng/dry g	9.66	0	95	60 - 140%	PASS	9	30	PASS	
PCB138	NA	9.86	0.057	0.2	ng/dry g	9.66	0.367	98	60 - 140%	PASS	6	30	PASS	
PCB141	NA	8.33	0.1	0.2	ng/dry g	9.66	0	86	60 - 140%	PASS	4	30	PASS	
PCB149	NA	9.46	0.092	0.2	ng/dry g	9.66	0.225	96	60 - 140%	PASS	5	30	PASS	
PCB151	NA	13	0.073	0.2	ng/dry g	9.66	0	135	60 - 140%	PASS	11	30	PASS	
PCB153	NA	10	0.065	0.2	ng/dry g	9.66	0.406	99	60 - 140%	PASS	5	30	PASS	
PCB156	NA	13	0.089	0.2	ng/dry g	9.66	0	135	60 - 140%	PASS	10	30	PASS	
PCB157	NA	8.41	0.103	0.2	ng/dry g	9.66	0	87	60 - 140%	PASS	6	30	PASS	
PCB158	NA	9.45	0.074	0.2	ng/dry g	9.66	0	98	60 - 140%	PASS	6	30	PASS	
PCB167	NA	12	0.049	0.2	ng/dry g	9.66	0	124	60 - 140%	PASS	10	30	PASS	
PCB168+132	NA	16.9	0.094	0.2	ng/dry g	19.3	0	88	60 - 140%	PASS	8	30	PASS	
PCB169	NA	12.7	0.116	0.2	ng/dry g	9.66	0	131	60 - 140%	PASS	3	30	PASS	
PCB170	NA	12.2	0.118	0.25	ng/dry g	9.66	0	126	60 - 140%	PASS	5	30	PASS	
PCB174	NA	10.5	0.12	0.25	ng/dry g	9.66	0	109	60 - 140%	PASS	10	30	PASS	
PCB177	NA	11.5	0.085	0.25	ng/dry g	9.66	0	119	60 - 140%	PASS	6	30	PASS	
PCB180	NA	12.8	0.154	0.25	ng/dry g	9.66	0.363	129	60 - 140%	PASS	10	30	PASS	
PCB183	NA	11.1	0.056	0.25	ng/dry g	9.66	0	115	60 - 140%	PASS	8	30	PASS	
PCB187	NA	11.2	0.168	0.25	ng/dry g	9.66	0.235	114	60 - 140%	PASS	7	30	PASS	
PCB189	NA	15.8	0.109	0.25	ng/dry g	9.66	0	164	60 - 140%	FAIL	16	30	PASS	M
PCB194	NA	16.3	0.164	0.25	ng/dry g	9.66	0	169	60 - 140%	FAIL	13	30	PASS	M
PCB195	NA	14.6	0.093	0.25	ng/dry g	9.66	0	151	60 - 140%	FAIL	13	30	PASS	M
PCB199(200)	NA	10.5	0.12	0.25	ng/dry g	9.66	0	109	60 - 140%	PASS	12	30	PASS	
PCB201	NA	8.14	0.104	0.25	ng/dry g	9.66	0	84	60 - 140%	PASS	5	30	PASS	
PCB203	NA	11.7	0.12	0.25	ng/dry g	9.66	0	121	60 - 140%	PASS	9	30	PASS	
PCB206	NA	14.8	0.155	0.25	ng/dry g	9.66	0.0898	152	60 - 140%	FAIL	10	30	PASS	M
PCB209	NA	12.5	0.12	0.25	ng/dry g	9.66	0.079	129	60 - 140%	PASS	13	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**			**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 03-Feb-19		
PCB003	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB005	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB008	NA	ND	0.017	0.2	ng/dry g					0	30 PASS	
PCB015	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB018	NA	ND	0.029	0.2	ng/dry g					0	30 PASS	
PCB027	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB028	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB029	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB031	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB033	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB037	NA	ND	0.06	0.2	ng/dry g					0	30 PASS	
PCB044	NA	ND	0.028	0.2	ng/dry g					0	30 PASS	
PCB049	NA	ND	0.036	0.2	ng/dry g					0	30 PASS	
PCB052	NA	ND	0.012	0.2	ng/dry g					0	30 PASS	
PCB056(060)	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB066	NA	ND	0.027	0.2	ng/dry g					0	30 PASS	
PCB070	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB074	NA	ND	0.021	0.2	ng/dry g					0	30 PASS	
PCB077	NA	ND	0.018	0.2	ng/dry g					0	30 PASS	
PCB081	NA	ND	0.084	0.2	ng/dry g					0	30 PASS	
PCB087	NA	ND	0.081	0.2	ng/dry g					0	30 PASS	
PCB095	NA	0.137	0.1	0.2	ng/dry g					9	30 PASS	J
PCB097	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB099	NA	0.174	0.028	0.2	ng/dry g					37	30 FAIL	J,SL
PCB101	NA	0.222	0.027	0.2	ng/dry g					7	30 PASS	
PCB105	NA	ND	0.047	0.2	ng/dry g					0	30 PASS	
PCB110	NA	ND	0.074	0.2	ng/dry g					0	30 PASS	
PCB114	NA	ND	0.072	0.2	ng/dry g					0	30 PASS	
PCB118	NA	ND	0.069	0.2	ng/dry g					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g					0	30	PASS	
PCB123	NA	ND	0.018	0.2	ng/dry g					0	30	PASS	
PCB126	NA	ND	0.086	0.2	ng/dry g					0	30	PASS	
PCB128	NA	ND	0.081	0.2	ng/dry g					0	30	PASS	
PCB137	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB138	NA	0.347	0.057	0.2	ng/dry g					11	30	PASS	
PCB141	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB149	NA	0.22	0.092	0.2	ng/dry g					4	30	PASS	
PCB151	NA	ND	0.073	0.2	ng/dry g					0	30	PASS	
PCB153	NA	0.385	0.065	0.2	ng/dry g					10	30	PASS	
PCB156	NA	ND	0.089	0.2	ng/dry g					0	30	PASS	
PCB157	NA	ND	0.103	0.2	ng/dry g					0	30	PASS	
PCB158	NA	ND	0.074	0.2	ng/dry g					0	30	PASS	
PCB167	NA	ND	0.049	0.2	ng/dry g					0	30	PASS	
PCB168+132	NA	ND	0.094	0.2	ng/dry g					0	30	PASS	
PCB169	NA	ND	0.116	0.2	ng/dry g					0	30	PASS	
PCB170	NA	ND	0.118	0.25	ng/dry g					0	30	PASS	
PCB174	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB177	NA	ND	0.085	0.25	ng/dry g					0	30	PASS	
PCB180	NA	0.3	0.154	0.25	ng/dry g					35	30	FAIL	SL
PCB183	NA	ND	0.056	0.25	ng/dry g					0	30	PASS	
PCB187	NA	0.23	0.168	0.25	ng/dry g					4	30	PASS	J
PCB189	NA	ND	0.109	0.25	ng/dry g					0	30	PASS	
PCB194	NA	ND	0.164	0.25	ng/dry g					0	30	PASS	
PCB195	NA	ND	0.093	0.25	ng/dry g					0	30	PASS	
PCB199(200)	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB201	NA	ND	0.104	0.25	ng/dry g					0	30	PASS	
PCB203	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB206	NA	0.18	0.155	0.25	ng/dry g					15	30	PASS	J
PCB209	NA	ND	0.12	0.25	ng/dry g					27	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	98			% Recovery	100	98	63 - 146%	PASS			
(FTBDE)	NA	93			% Recovery	100	93	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 21-Jan-19		
(DFPBDE)	NA	123			% Recovery	100	0	123	63 - 146% PASS			
(FTBDE)	NA	83			% Recovery	100	0	83	53 - 138% PASS			
PBDE017	NA	49.1	0.05	0.1	ng/dry g	50	0	98	60 - 140% PASS			
PBDE028	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140% PASS			
PBDE047	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140% PASS			
PBDE049	NA	53.4	0.05	0.1	ng/dry g	50	0	107	60 - 140% PASS			
PBDE066	NA	49.4	0.05	0.1	ng/dry g	50	0	99	60 - 140% PASS			
PBDE085	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140% PASS			
PBDE099	NA	46.6	0.05	0.1	ng/dry g	50	0	93	60 - 140% PASS			
PBDE100	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140% PASS			
PBDE138	NA	44.1	0.05	0.1	ng/dry g	50	0	88	60 - 140% PASS			
PBDE153	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140% PASS			
PBDE154	NA	47.6	0.05	0.1	ng/dry g	50	0	95	60 - 140% PASS			
PBDE183	NA	42.9	0.05	0.1	ng/dry g	50	0	86	60 - 140% PASS			
PBDE190	NA	33.4	0.05	0.1	ng/dry g	50	0	67	60 - 140% PASS			
PBDE209	NA	55.3	0.05	0.1	ng/dry g	250	0	22	60 - 140% FAIL			Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	4	30	PASS
(FTBDE)	NA	80			% Recovery	100	0	80	53 - 138%	PASS	4	30	PASS
PBDE017	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS	9	30	PASS
PBDE028	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS
PBDE047	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS
PBDE049	NA	47.8	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	11	30	PASS
PBDE066	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS
PBDE085	NA	46.8	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	6	30	PASS
PBDE099	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	1	30	PASS
PBDE100	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS	4	30	PASS
PBDE138	NA	39.6	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	11	30	PASS
PBDE153	NA	41.4	0.05	0.1	ng/dry g	50	0	83	60 - 140%	PASS	8	30	PASS
PBDE154	NA	41	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS	15	30	PASS
PBDE183	NA	39.7	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	8	30	PASS
PBDE190	NA	30.5	0.05	0.1	ng/dry g	50	0	61	60 - 140%	PASS	9	30	PASS
PBDE209	NA	41.9	0.05	0.1	ng/dry g	250	0	17	60 - 140%	PASS	26	30	PASS
Sample ID: 56683-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	90			% Recovery	100		90	60 - 140%	PASS			
(FTBDE)	NA	121			% Recovery	100		121	60 - 140%	PASS			
PBDE047	NA	1.52	0.05	0.1	ng/dry g	1.72		88	60 - 140%	PASS			
PBDE099	NA	1.75	0.05	0.1	ng/dry g	2		88	60 - 140%	PASS			
PBDE100	NA	0.309	0.05	0.1	ng/dry g	0.4		77	60 - 140%	PASS			
PBDE153	NA	4.31	0.05	0.1	ng/dry g	6.44		67	60 - 140%	PASS			
PBDE154	NA	1.04	0.05	0.1	ng/dry g	1.06		98	60 - 140%	PASS			
PBDE183	NA	19.3	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS			
PBDE209	NA	63.4	0.05	0.1	ng/dry g	93.5		68	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 21-Jan-19	
(DFPBDE)	NA	90			% Recovery	100	0	90	27 - 129% PASS			
(FTBDE)	NA	91			% Recovery	100	0	91	54 - 136% PASS			
PBDE017	NA	9.38	0.05	0.1	ng/dry g	9.65	0	97	60 - 140% PASS			
PBDE028	NA	10.5	0.05	0.1	ng/dry g	9.65	0	109	60 - 140% PASS			
PBDE047	NA	8.11	0.05	0.1	ng/dry g	9.65	0	84	60 - 140% PASS			
PBDE049	NA	8.77	0.05	0.1	ng/dry g	9.65	0	91	60 - 140% PASS			
PBDE066	NA	8.08	0.05	0.1	ng/dry g	9.65	0	84	60 - 140% PASS			
PBDE085	NA	6.31	0.05	0.1	ng/dry g	9.65	0	65	60 - 140% PASS			
PBDE099	NA	6.97	0.05	0.1	ng/dry g	9.65	0	72	60 - 140% PASS			
PBDE100	NA	7.46	0.05	0.1	ng/dry g	9.65	0	77	60 - 140% PASS			
PBDE138	NA	4.84	0.05	0.1	ng/dry g	9.65	0	50	60 - 140% FAIL			M
PBDE153	NA	5	0.05	0.1	ng/dry g	9.65	0	52	60 - 140% FAIL			M
PBDE154	NA	6.07	0.05	0.1	ng/dry g	9.65	0	63	60 - 140% PASS			
PBDE183	NA	3.87	0.05	0.1	ng/dry g	9.65	0	40	60 - 140% FAIL			M
PBDE190	NA	2.22	0.05	0.1	ng/dry g	9.65	0	23	60 - 140% FAIL			M
PBDE209	NA	2.26	0.05	0.1	ng/dry g	48.2	0	5	60 - 140% FAIL			M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**			**Received: 27-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 21-Jan-19		
(DFPBDE)	NA	102			% Recovery	100	0	102	27 - 129%	PASS	12	30	PASS	
(FTBDE)	NA	97			% Recovery	100	0	97	54 - 136%	PASS	6	30	PASS	
PBDE017	NA	10.4	0.05	0.1	ng/dry g	9.66	0	108	60 - 140%	PASS	11	30	PASS	
PBDE028	NA	10.7	0.05	0.1	ng/dry g	9.66	0	111	60 - 140%	PASS	2	30	PASS	
PBDE047	NA	8.76	0.05	0.1	ng/dry g	9.66	0	91	60 - 140%	PASS	8	30	PASS	
PBDE049	NA	9.01	0.05	0.1	ng/dry g	9.66	0	93	60 - 140%	PASS	2	30	PASS	
PBDE066	NA	8.59	0.05	0.1	ng/dry g	9.66	0	89	60 - 140%	PASS	6	30	PASS	
PBDE085	NA	7.31	0.05	0.1	ng/dry g	9.66	0	76	60 - 140%	PASS	16	30	PASS	
PBDE099	NA	7.85	0.05	0.1	ng/dry g	9.66	0	81	60 - 140%	PASS	12	30	PASS	
PBDE100	NA	7.85	0.05	0.1	ng/dry g	9.66	0	81	60 - 140%	PASS	5	30	PASS	
PBDE138	NA	5.45	0.05	0.1	ng/dry g	9.66	0	56	60 - 140%	FAIL	11	30	PASS	M
PBDE153	NA	5.89	0.05	0.1	ng/dry g	9.66	0	61	60 - 140%	PASS	16	30	PASS	
PBDE154	NA	6.76	0.05	0.1	ng/dry g	9.66	0	70	60 - 140%	PASS	11	30	PASS	
PBDE183	NA	4.91	0.05	0.1	ng/dry g	9.66	0	51	60 - 140%	FAIL	24	30	PASS	M
PBDE190	NA	3.25	0.05	0.1	ng/dry g	9.66	0	34	60 - 140%	FAIL	39	30	FAIL	M
PBDE209	NA	7.25	0.05	0.1	ng/dry g	48.3	0	15	60 - 140%	FAIL	100	30	FAIL	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 22-Jan-19			
(DFPBDE)	NA	65			% Recovery	100	65	27 - 129%	PASS	8	30	PASS	
(FTBDE)	NA	60			% Recovery	100	60	54 - 136%	PASS	10	30	PASS	
PBDE017	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE028	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE047	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE049	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE066	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE085	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE099	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE100	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE138	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE153	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE154	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE183	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE190	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE209	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(d10-Acenaphthene)	NA	66			% Recovery	100	66	50 - 112%	PASS			
(d10-Phenanthrene)	NA	102			% Recovery	100	102	59 - 121%	PASS			
(d12-Chrysene)	NA	144			% Recovery	100	144	52 - 144%	PASS			
(d12-Perylene)	NA	92			% Recovery	100	92	50 - 150%	PASS			
(d8-Naphthalene)	NA	43			% Recovery	100	43	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	82			% Recovery	100	0	82	50 - 112% PASS			
(d10-Phenanthrene)	NA	105			% Recovery	100	0	105	59 - 121% PASS			
(d12-Chrysene)	NA	144			% Recovery	100	0	144	52 - 144% PASS			
(d12-Perylene)	NA	94			% Recovery	100	0	94	50 - 150% PASS			
(d8-Naphthalene)	NA	59			% Recovery	100	0	59	31 - 106% PASS			
1,6,7-Trimethylnapthalene	NA	400	0.059	0.5	ng/dry g	500	0	80	60 - 140% PASS			
1-Methylnaphthalene	NA	297	0.084	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	626	0.076	0.5	ng/dry g	500	0	125	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	348	0.065	0.5	ng/dry g	500	0	70	60 - 140% PASS			
2-Methylnaphthalene	NA	314	0.106	0.5	ng/dry g	500	0	63	60 - 140% PASS			
Acenaphthene	NA	336	0.078	0.5	ng/dry g	500	0	67	60 - 140% PASS			
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140% PASS			
Anthracene	NA	411	0.046	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benz[a]anthracene	NA	982	0.107	0.5	ng/dry g	500	0	196	60 - 140% FAIL			
Benzo[a]pyrene	NA	432	0.106	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Benzo[b]fluoranthene	NA	733	0.063	0.5	ng/dry g	500	0	147	60 - 140% FAIL			Q
Benzo[e]pyrene	NA	519	0.098	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	410	0.093	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benzo[k]fluoranthene	NA	588	0.111	0.5	ng/dry g	500	0	118	60 - 140% PASS			
Biphenyl	NA	320	0.092	0.5	ng/dry g	500	0	64	60 - 140% PASS			
Chrysene	NA	518	0.067	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	711	0.106	0.5	ng/dry g	500	0	142	60 - 140% FAIL			Q
Dibenzothiophene	NA	460	0.2	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Fluoranthene	NA	655	0.035	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	780	0.087	0.5	ng/dry g	500	0	156	60 - 140% FAIL			
Naphthalene	NA	256	0.187	0.5	ng/dry g	500	0	51	60 - 140% FAIL			Q
Perylene	NA	414	0.114	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Phenanthrene	NA	420	0.074	0.5	ng/dry g	500	0	84	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	638	0.048	0.5	ng/dry g	500	0	128	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	81			% Recovery	100	0	81	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	104			% Recovery	100	0	104	59 - 121%	PASS	1	30	PASS	
(d12-Chrysene)	NA	149			% Recovery	100	0	149	52 - 144%	FAIL	3	30	PASS	
(d12-Perylene)	NA	90			% Recovery	100	0	90	50 - 150%	PASS	4	30	PASS	
(d8-Naphthalene)	NA	56			% Recovery	100	0	56	31 - 106%	PASS	5	30	PASS	
1,6,7-Trimethylnapthalene	NA	402	0.059	0.5	ng/dry g	500	0	80	60 - 140%	PASS	0	30	PASS	
1-Methylnaphthalene	NA	286	0.084	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	3	30	PASS	Q
1-Methylphenanthrene	NA	635	0.076	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
2,6-Dimethylnaphthalene	NA	342	0.065	0.5	ng/dry g	500	0	68	60 - 140%	PASS	3	30	PASS	
2-Methylnaphthalene	NA	301	0.106	0.5	ng/dry g	500	0	60	60 - 140%	PASS	5	30	PASS	
Acenaphthene	NA	332	0.078	0.5	ng/dry g	500	0	66	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140%	PASS	0	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	1	30	PASS	
Benz[a]anthracene	NA	999	0.107	0.5	ng/dry g	500	0	200	60 - 140%	FAIL	2	30	PASS	
Benzo[a]pyrene	NA	420	0.106	0.5	ng/dry g	500	0	84	60 - 140%	PASS	2	30	PASS	
Benzo[b]fluoranthene	NA	740	0.063	0.5	ng/dry g	500	0	148	60 - 140%	FAIL	1	30	PASS	Q
Benzo[e]pyrene	NA	528	0.098	0.5	ng/dry g	500	0	106	60 - 140%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	NA	409	0.093	0.5	ng/dry g	500	0	82	60 - 140%	PASS	0	30	PASS	
Benzo[k]fluoranthene	NA	582	0.111	0.5	ng/dry g	500	0	116	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	311	0.092	0.5	ng/dry g	500	0	62	60 - 140%	PASS	3	30	PASS	
Chrysene	NA	541	0.067	0.5	ng/dry g	500	0	108	60 - 140%	PASS	4	30	PASS	
Dibenz[a,h]anthracene	NA	734	0.106	0.5	ng/dry g	500	0	147	60 - 140%	FAIL	3	30	PASS	Q
Dibenzothiophene	NA	454	0.2	0.5	ng/dry g	500	0	91	60 - 140%	PASS	1	30	PASS	
Fluoranthene	NA	652	0.035	0.5	ng/dry g	500	0	130	60 - 140%	PASS	1	30	PASS	
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140%	PASS	0	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	816	0.087	0.5	ng/dry g	500	0	163	60 - 140%	FAIL	4	30	PASS	
Naphthalene	NA	243	0.187	0.5	ng/dry g	500	0	49	60 - 140%	FAIL	4	30	PASS	Q
Perylene	NA	420	0.114	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
Phenanthrene	NA	417	0.074	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	636	0.048	0.5	ng/dry g	500	0	127	60 - 140%	PASS	1	30	PASS	
Sample ID: 56683-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 02-Feb-19			
(d10-Acenaphthene)	NA	93			% Recovery	100		93	44 - 144%	PASS				
(d10-Phenanthrene)	NA	106			% Recovery	100		106	60 - 134%	PASS				
(d12-Chrysene)	NA	74			% Recovery	100		74	27 - 158%	PASS				
(d12-Perylene)	NA	80			% Recovery	100		80	17 - 160%	PASS				
(d8-Naphthalene)	NA	58			% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	454	0.106	0.5	ng/dry g	740		61	60 - 140%	PASS				
Benz[a]anthracene	NA	2870	0.107	0.5	ng/dry g	4720		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	3040	0.106	0.5	ng/dry g	4300		71	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	2550	0.063	0.5	ng/dry g	3870		66	60 - 140%	PASS				
Benzo[e]pyrene	NA	3870	0.098	0.5	ng/dry g	3280		118	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2790	0.093	0.5	ng/dry g	2840		98	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1810	0.111	0.5	ng/dry g	4390		41	60 - 140%	FAIL				1
Chrysene	NA	3850	0.067	0.5	ng/dry g	4860		79	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	1070	0.106	0.5	ng/dry g	924		116	60 - 140%	PASS				
Fluoranthene	NA	6500	0.035	0.5	ng/dry g	8920		73	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2490	0.087	0.5	ng/dry g	2780		90	60 - 140%	PASS				
Perylene	NA	739	0.114	0.5	ng/dry g	1170		63	60 - 140%	PASS				
Phenanthrene	NA	3470	0.074	0.5	ng/dry g	5270		66	60 - 140%	PASS				
Pyrene	NA	6070	0.048	0.5	ng/dry g	9700		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	79			% Recovery	100	0	79	23 - 117% PASS			
(d10-Phenanthrene)	NA	106			% Recovery	100	0	106	24 - 127% PASS			
(d12-Chrysene)	NA	139			% Recovery	100	0	139	22 - 148% PASS			
(d12-Perylene)	NA	94			% Recovery	100	0	94	50 - 150% PASS			
(d8-Naphthalene)	NA	52			% Recovery	100	0	52	8 - 105% PASS			
1,6,7-Trimethylnapthalene	NA	80.5	0.059	0.5	ng/dry g	96.5	1.16	82	60 - 140% PASS			
1-Methylnaphthalene	NA	53.3	0.084	0.5	ng/dry g	96.5	0.576	55	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	127	0.076	0.5	ng/dry g	96.5	1.78	130	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	65.4	0.065	0.5	ng/dry g	96.5	0.576	67	60 - 140% PASS			
2-Methylnaphthalene	NA	57.5	0.106	0.5	ng/dry g	96.5	1.31	58	60 - 140% FAIL			Q
Acenaphthene	NA	61.6	0.078	0.5	ng/dry g	96.5	0.158	64	60 - 140% PASS			
Acenaphthylene	NA	79.4	0.058	0.5	ng/dry g	96.5	0.609	82	60 - 140% PASS			
Anthracene	NA	83.2	0.046	0.5	ng/dry g	96.5	1.24	85	60 - 140% PASS			
Benz[a]anthracene	NA	214	0.107	0.5	ng/dry g	96.5	12.9	208	60 - 140% FAIL			M
Benzo[a]pyrene	NA	100	0.106	0.5	ng/dry g	96.5	9.02	94	60 - 140% PASS			
Benzo[b]fluoranthene	NA	178	0.063	0.5	ng/dry g	96.5	22.1	162	60 - 140% FAIL			M
Benzo[e]pyrene	NA	123	0.098	0.5	ng/dry g	96.5	8.3	119	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	96.4	0.093	0.5	ng/dry g	96.5	8.94	91	60 - 140% PASS			
Benzo[k]fluoranthene	NA	133	0.111	0.5	ng/dry g	96.5	16.9	120	60 - 140% PASS			
Biphenyl	NA	56.8	0.092	0.5	ng/dry g	96.5	0.22	59	60 - 140% FAIL			Q
Chrysene	NA	108	0.067	0.5	ng/dry g	96.5	8.05	104	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	171	0.106	0.5	ng/dry g	96.5	3.68	173	60 - 140% FAIL			M
Dibenzothiophene	NA	88.5	0.2	0.5	ng/dry g	96.5	0.495	91	60 - 140% PASS			
Fluoranthene	NA	150	0.035	0.5	ng/dry g	96.5	12.3	143	60 - 140% FAIL			Q
Fluorene	NA	75.8	0.068	0.5	ng/dry g	96.5	0.601	78	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	210	0.087	0.5	ng/dry g	96.5	28.4	188	60 - 140% FAIL			M
Naphthalene	NA	44.8	0.187	0.5	ng/dry g	96.5	1.46	45	60 - 140% FAIL			Q
Perylene	NA	87.2	0.114	0.5	ng/dry g	96.5	1.71	89	60 - 140% PASS			
Phenanthrene	NA	85.9	0.074	0.5	ng/dry g	96.5	5.59	83	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	145	0.048	0.5	ng/dry g	96.5	12.9	137	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18**	**8:00**		**Received: 27-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 02-Feb-19			
(d10-Acenaphthene)	NA	73			% Recovery	100	0	73	23 - 117%	PASS	8	30	PASS	
(d10-Phenanthrene)	NA	103			% Recovery	100	0	103	24 - 127%	PASS	3	30	PASS	
(d12-Chrysene)	NA	146			% Recovery	100	0	146	22 - 148%	PASS	5	30	PASS	
(d12-Perylene)	NA	94			% Recovery	100	0	94	50 - 150%	PASS	0	30	PASS	
(d8-Naphthalene)	NA	44			% Recovery	100	0	44	8 - 105%	PASS	17	30	PASS	
1,6,7-Trimethylnapthalene	NA	77.4	0.059	0.5	ng/dry g	96.6	1.16	79	60 - 140%	PASS	4	30	PASS	
1-Methylnaphthalene	NA	47.8	0.084	0.5	ng/dry g	96.6	0.576	49	60 - 140%	FAIL	12	30	PASS	Q
1-Methylphenanthrene	NA	130	0.076	0.5	ng/dry g	96.6	1.78	133	60 - 140%	PASS	2	30	PASS	
2,6-Dimethylnaphthalene	NA	60.4	0.065	0.5	ng/dry g	96.6	0.576	62	60 - 140%	PASS	8	30	PASS	
2-Methylnaphthalene	NA	50.6	0.106	0.5	ng/dry g	96.6	1.31	51	60 - 140%	FAIL	13	30	PASS	Q
Acenaphthene	NA	58.5	0.078	0.5	ng/dry g	96.6	0.158	60	60 - 140%	PASS	6	30	PASS	
Acenaphthylene	NA	73.2	0.058	0.5	ng/dry g	96.6	0.609	75	60 - 140%	PASS	9	30	PASS	
Anthracene	NA	83.8	0.046	0.5	ng/dry g	96.6	1.24	85	60 - 140%	PASS	0	30	PASS	
Benz[a]anthracene	NA	239	0.107	0.5	ng/dry g	96.6	12.9	234	60 - 140%	FAIL	12	30	PASS	M
Benzo[a]pyrene	NA	111	0.106	0.5	ng/dry g	96.6	9.02	106	60 - 140%	PASS	12	30	PASS	
Benzo[b]fluoranthene	NA	186	0.063	0.5	ng/dry g	96.6	22.1	170	60 - 140%	FAIL	5	30	PASS	M
Benzo[e]pyrene	NA	133	0.098	0.5	ng/dry g	96.6	8.3	129	60 - 140%	PASS	8	30	PASS	
Benzo[g,h,i]perylene	NA	109	0.093	0.5	ng/dry g	96.6	8.94	104	60 - 140%	PASS	13	30	PASS	
Benzo[k]fluoranthene	NA	141	0.111	0.5	ng/dry g	96.6	16.9	128	60 - 140%	PASS	6	30	PASS	
Biphenyl	NA	52.1	0.092	0.5	ng/dry g	96.6	0.22	54	60 - 140%	FAIL	9	30	PASS	Q
Chrysene	NA	126	0.067	0.5	ng/dry g	96.6	8.05	122	60 - 140%	PASS	16	30	PASS	
Dibenz[a,h]anthracene	NA	176	0.106	0.5	ng/dry g	96.6	3.68	178	60 - 140%	FAIL	3	30	PASS	M
Dibenzothiophene	NA	88.2	0.2	0.5	ng/dry g	96.6	0.495	91	60 - 140%	PASS	0	30	PASS	
Fluoranthene	NA	166	0.035	0.5	ng/dry g	96.6	12.3	159	60 - 140%	FAIL	11	30	PASS	Q
Fluorene	NA	73.1	0.068	0.5	ng/dry g	96.6	0.601	75	60 - 140%	PASS	4	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	229	0.087	0.5	ng/dry g	96.6	28.4	208	60 - 140%	FAIL	10	30	PASS	M
Naphthalene	NA	37.6	0.187	0.5	ng/dry g	96.6	1.46	37	60 - 140%	FAIL	20	30	PASS	Q
Perylene	NA	92	0.114	0.5	ng/dry g	96.6	1.71	93	60 - 140%	PASS	4	30	PASS	
Phenanthrene	NA	84.7	0.074	0.5	ng/dry g	96.6	5.59	82	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	158	0.048	0.5	ng/dry g	96.6	12.9	150	60 - 140%	FAIL	9	30	PASS	Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18 8:00**				**Received: 27-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 03-Feb-19			
(d10-Acenaphthene)	NA	50			% Recovery	100	50	23 - 117%	PASS		6	30	PASS	
(d10-Phenanthrene)	NA	63			% Recovery	100	63	24 - 127%	PASS		5	30	PASS	
(d12-Chrysene)	NA	109			% Recovery	100	109	22 - 148%	PASS		3	30	PASS	
(d12-Perylene)	NA	62			% Recovery	100	62	50 - 150%	PASS		9	30	PASS	
(d8-Naphthalene)	NA	42			% Recovery	100	42	8 - 105%	PASS		5	30	PASS	
1,6,7-Trimethylnapthalene	NA	1.15	0.059	0.5	ng/dry g						3	30	PASS	
1-Methylnaphthalene	NA	0.578	0.084	0.5	ng/dry g						1	30	PASS	
1-Methylphenanthrene	NA	1.69	0.076	0.5	ng/dry g						10	30	PASS	
2,6-Dimethylnaphthalene	NA	0.625	0.065	0.5	ng/dry g						17	30	PASS	
2-Methylnaphthalene	NA	1.3	0.106	0.5	ng/dry g						2	30	PASS	
Acenaphthene	NA	0.15	0.078	0.5	ng/dry g						10	30	PASS	J
Acenaphthylene	NA	0.583	0.058	0.5	ng/dry g						9	30	PASS	
Anthracene	NA	0.96	0.046	0.5	ng/dry g						45	30	FAIL	NH
Benz[a]anthracene	NA	11.4	0.107	0.5	ng/dry g						23	30	PASS	
Benzo[a]pyrene	NA	8.39	0.106	0.5	ng/dry g						14	30	PASS	
Benzo[b]fluoranthene	NA	20.6	0.063	0.5	ng/dry g						14	30	PASS	
Benzo[e]pyrene	NA	7.8	0.098	0.5	ng/dry g						12	30	PASS	
Benzo[g,h,i]perylene	NA	8.55	0.093	0.5	ng/dry g						9	30	PASS	
Benzo[k]fluoranthene	NA	15.2	0.111	0.5	ng/dry g						20	30	PASS	
Biphenyl	NA	0.225	0.092	0.5	ng/dry g						5	30	PASS	J
Chrysene	NA	6.84	0.067	0.5	ng/dry g						30	30	PASS	
Dibenz[a,h]anthracene	NA	3.13	0.106	0.5	ng/dry g						30	30	PASS	
Dibenzothiophene	NA	0.386	0.2	0.5	ng/dry g						44	30	FAIL	J,SL
Fluoranthene	NA	9.64	0.035	0.5	ng/dry g						44	30	FAIL	NH
Fluorene	NA	0.56	0.068	0.5	ng/dry g						14	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	25.9	0.087	0.5	ng/dry g						18	30	PASS	
Naphthalene	NA	1.43	0.187	0.5	ng/dry g						4	30	PASS	
Perylene	NA	1.53	0.114	0.5	ng/dry g						21	30	PASS	
Phenanthrene	NA	4.61	0.074	0.5	ng/dry g						35	30	FAIL	NH

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	10.9	0.048	0.5	ng/dry g					31	30	FAIL	NH

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56681-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 25-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 56681-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 26-Jan-19		
Allethrin	NA	623	0.28	0.5	ng/dry g	500	0	125	60 - 140%		PASS	
Bifenthrin	NA	514	0.22	0.5	ng/dry g	500	0	103	60 - 140%		PASS	
Cyfluthrin	NA	554	0.25	0.5	ng/dry g	500	0	111	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	590	0.23	0.5	ng/dry g	500	0	118	60 - 140%		PASS	
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	564	0.21	0.5	ng/dry g	500	0	113	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	466	0.25	0.5	ng/dry g	500	0	93	60 - 140%		PASS	
Esfenvalerate	NA	502	0.25	0.5	ng/dry g	500	0	100	60 - 140%		PASS	
Fenvalerate	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%		PASS	
Fluvalinate	NA	489	0.23	0.5	ng/dry g	500	0	98	60 - 140%		PASS	
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%		PASS	
Permethrin, trans-	NA	409	0.22	0.5	ng/dry g	358	0	114	60 - 140%		PASS	
Prallethrin	NA	574	0.28	0.5	ng/dry g	500	0	115	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56681-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 26-Jan-19		
Allethrin	NA	626	0.28	0.5	ng/dry g	500	0	125	60 - 140%	PASS	0	30	PASS	
Bifenthrin	NA	548	0.22	0.5	ng/dry g	500	0	110	60 - 140%	PASS	7	30	PASS	
Cyfluthrin	NA	547	0.25	0.5	ng/dry g	500	0	109	60 - 140%	PASS	2	30	PASS	
Cyhalothrin, Total Lambda	NA	639	0.23	0.5	ng/dry g	500	0	128	60 - 140%	PASS	8	30	PASS	
Cypermethrin	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	4	30	PASS	
Danitol (Fenpropathrin)	NA	626	0.21	0.5	ng/dry g	500	0	125	60 - 140%	PASS	10	30	PASS	
Deltamethrin/Tralomethrin	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	3	30	PASS	
Esfenvalerate	NA	464	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	7	30	PASS	
Fenvalerate	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	9	30	PASS	
Fluvalinate	NA	464	0.23	0.5	ng/dry g	500	0	93	60 - 140%	PASS	5	30	PASS	
Permethrin, cis-	NA	152	0.17	0.5	ng/dry g	134	0	113	60 - 140%	PASS	1	30	PASS	
Permethrin, trans-	NA	401	0.22	0.5	ng/dry g	358	0	112	60 - 140%	PASS	2	30	PASS	
Prallethrin	NA	610	0.28	0.5	ng/dry g	500	0	122	60 - 140%	PASS	6	30	PASS	
Sample ID: 56689-MS1	**B18-10133**				**Matrix: Sediment**			**Sampled: 26-Jul-18 8:00**				**Received: 27-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 26-Jan-19		
Allethrin	NA	105	0.28	0.5	ng/dry g	96.5	0	109	60 - 140%	PASS				
Bifenthrin	NA	110	0.22	0.5	ng/dry g	96.5	0	114	60 - 140%	PASS				
Cyfluthrin	NA	116	0.25	0.5	ng/dry g	96.5	0	120	60 - 140%	PASS				
Cyhalothrin, Total Lambda	NA	130	0.23	0.5	ng/dry g	96.5	0	135	60 - 140%	PASS				
Cypermethrin	NA	115	0.25	0.5	ng/dry g	96.5	0	119	60 - 140%	PASS				
Danitol (Fenpropathrin)	NA	119	0.21	0.5	ng/dry g	96.5	0	123	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	79.3	0.25	0.5	ng/dry g	96.5	0	82	60 - 140%	PASS				
Esfenvalerate	NA	84.8	0.25	0.5	ng/dry g	96.5	0	88	60 - 140%	PASS				
Fenvalerate	NA	96.1	0.25	0.5	ng/dry g	96.5	0	100	60 - 140%	PASS				
Fluvalinate	NA	84.9	0.23	0.5	ng/dry g	96.5	0	88	60 - 140%	PASS				
Permethrin, cis-	NA	33	0.17	0.5	ng/dry g	25.8	0	128	60 - 140%	PASS				
Permethrin, trans-	NA	85.6	0.22	0.5	ng/dry g	69.1	0	124	60 - 140%	PASS				
Prallethrin	NA	3.03	0.28	0.5	ng/dry g	96.5	0	3	60 - 140%	FAIL				M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56689-MS2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**		**8:00**		**Received: 27-Jul-18**			
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 26-Jan-19			
Allethrin	NA	111	0.28	0.5	ng/dry g	96.6	0	115	60 - 140%	PASS	5	30	PASS	
Bifenthrin	NA	113	0.22	0.5	ng/dry g	96.6	0	117	60 - 140%	PASS	3	30	PASS	
Cyfluthrin	NA	114	0.25	0.5	ng/dry g	96.6	0	118	60 - 140%	PASS	2	30	PASS	
Cyhalothrin, Total Lambda	NA	133	0.23	0.5	ng/dry g	96.6	0	138	60 - 140%	PASS	2	30	PASS	
Cypermethrin	NA	114	0.25	0.5	ng/dry g	96.6	0	118	60 - 140%	PASS	1	30	PASS	
Danitol (Fenpropathrin)	NA	122	0.21	0.5	ng/dry g	96.6	0	126	60 - 140%	PASS	2	30	PASS	
Deltamethrin/Tralomethrin	NA	73	0.25	0.5	ng/dry g	96.6	0	76	60 - 140%	PASS	8	30	PASS	
Esfenvalerate	NA	80.3	0.25	0.5	ng/dry g	96.6	0	83	60 - 140%	PASS	6	30	PASS	
Fenvalerate	NA	92.6	0.25	0.5	ng/dry g	96.6	0	96	60 - 140%	PASS	4	30	PASS	
Fluvalinate	NA	82.1	0.23	0.5	ng/dry g	96.6	0	85	60 - 140%	PASS	3	30	PASS	
Permethrin, cis-	NA	34.3	0.17	0.5	ng/dry g	25.8	0	133	60 - 140%	PASS	4	30	PASS	
Permethrin, trans-	NA	87.8	0.22	0.5	ng/dry g	69.2	0	127	60 - 140%	PASS	2	30	PASS	
Prallethrin	NA	3.73	0.28	0.5	ng/dry g	96.6	0	4	60 - 140%	FAIL	29	30	PASS	M
Sample ID: 56689-R2	**B18-10133**				**Matrix: Sediment**		**Sampled: 26-Jul-18**		**8:00**		**Received: 27-Jul-18**			
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 26-Jan-19			
Allethrin	NA	ND	0.28	0.5	ng/dry g						0	30	PASS	
Bifenthrin	NA	ND	0.22	0.5	ng/dry g						0	30	PASS	
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g						0	30	PASS	
Cypermethrin	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g						0	30	PASS	
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fenvalerate	NA	ND	0.25	0.5	ng/dry g						0	30	PASS	
Fluvalinate	NA	ND	0.23	0.5	ng/dry g						0	30	PASS	
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g						0	30	PASS	
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g						0	30	PASS	
Prallethrin	NA	ND	0.28	0.5	ng/dry g						0	30	PASS	

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSES REQUESTED: SEE ATTACHED LIST OF ANALYTES	COMMENTS
	7/26/2018	0930	sediment	B18-10124	3	X	
	7/26/2018	1245	sediment	B18-10126	3	X	
	7/26/2018	1055	sediment	B18-10127	3	X	
	7/26/2018	1345	sediment	B18-10132	3	X	
	7/26/2018	0800	sediment	B18-10133	3	X	MS/MSD analysis
	7/26/2018	1130	sediment	B18-20133	3	X	
	7/27/2018	0810	sediment	B18-10136	3	X	
	7/27/2018	0725	sediment	B18-10137	3	X	
	7/27/2018	0905	sediment	B18-10139	3	X	
	7/27/2018	1010	sediment	B18-10140	3	X	
	7/27/2018	1240	sediment	B18-10141	3	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/27/18 1612	PBS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES
	7/27/2018	1110	sediment	B18-10142	3	X

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
	7/27/18 1612	
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-010

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/27/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 10	☐ BLUE ☑ WET ☐ DRY
Start 14:00 End 18:30 ☐ Other:	☐ Other :	☐ None 11.4 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

See Temperature

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 07, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-012

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/31/2018. A total of 6 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-012

2018 Regional Harbor Monitoring Program Total Samples: 6

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56746	B18-10034		7/30/2018	13:37	Sediment
56747	B18-10035		7/30/2018	12:45	Sediment
56748	B18-10036		7/30/2018	11:00	Sediment
56749	B18-10143		7/30/2018	7:37	Sediment
56750	B18-10144		7/30/2018	9:00	Sediment
56751	B18-10039		7/30/2018	10:00	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**13:37**	**Received: 31-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	54			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	45			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	66			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	50			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**12:45**	**Received: 31-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	55			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	47			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	68			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	53			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**11:00**	**Received: 31-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	42			NA		O-21012	08-Jan-19	04-Feb-19
(PCB112)	EPA 8270D	% Recovery	37			NA		O-21012	08-Jan-19	04-Feb-19
(PCB198)	EPA 8270D	% Recovery	55			NA		O-21012	08-Jan-19	04-Feb-19
(TCMX)	EPA 8270D	% Recovery	39			NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21012	08-Jan-19	04-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21012	08-Jan-19	04-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21012	08-Jan-19	04-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21012	08-Jan-19	04-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21012	08-Jan-19	04-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21012	08-Jan-19	20-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
(PCB030)	EPA 8270D	% Recovery	65			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	67			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	80			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	60			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.238	0.193	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**9:00**	**Received: 31-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	74			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	75			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	88			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	66			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**10:00**	**Received: 31-Jul-18**	
(PCB030)	EPA 8270D	% Recovery	47			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	45			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	60			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	45			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**13:37**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	28.5	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	14.2	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	57.6	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.07	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	0.88	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	403	0.016	0.05	NA		E-14071	24-Dec-18	07-Feb-19	
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	24.7	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	11.1	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	57.3	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.06	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	0.83	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	458	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19	
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**11:00**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	96.7	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	19.9	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	52.6	0.1	0.1	NA		C-35150	08-Jan-19	08-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.08	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Organic Carbon	EPA 9060	% dry weight	0.97	0.01	0.01	NA		O-19052	14-Jan-19	14-Jan-19	16:45
Total Phosphorus	EPA 6020	µg/dry g	497	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19	

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed	
Sample ID: 56749-R1	**B18-10143**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	29.5	0.05	0.1	NA		C-41079	09-Jan-19	09-Jan-19	9:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	5.78	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	66.8	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.05	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Organic Carbon	EPA 9060	% dry weight	0.55	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Phosphorus	EPA 6020	µg/dry g	272	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19	
Sample ID: 56750-R1	**B18-10144**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	26.4	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19	15:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	5.03	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	71.6	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.04	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Organic Carbon	EPA 9060	% dry weight	0.46	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Phosphorus	EPA 6020	µg/dry g	274	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19	
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**10:00**	**Received: 31-Jul-18**		
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	53.2	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19	15:00
Ammonia as N	SM 4500-NH3 D	mg/dry kg	8.11	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19	11:30
Percent Solids	SM 2540 B	%	44.2	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19	9:00
Total Nitrogen	EPA 9060	% dry weight	0.16	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Organic Carbon	EPA 9060	% dry weight	1.51	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19	16:30
Total Phosphorus	EPA 6020	µg/dry g	739	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19	

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**13:37**		**Received: 31-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	25100	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.156	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.72	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	57.3	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.462	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.142	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	45.2	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	79.7	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	24100	1	5	NA		E-14071	24-Dec-18	07-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	27.9	0.0025	0.005	NA		E-14071	24-Dec-18	07-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.347	1E-05	0.00002	NA		E-15088	11-Jan-19	11-Jan-19 18:10
Nickel (Ni)	EPA 6020	µg/dry g	11.4	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.283	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.614	0.01	0.02	NA		E-14071	24-Dec-18	07-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	153	0.025	0.05	NA		E-14071	24-Dec-18	07-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**12:45**		**Received: 31-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	29200	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.252	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.02	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	56.8	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.443	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.141	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	45	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	77.8	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	24800	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	26	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.33	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19 18:30
Nickel (Ni)	EPA 6020	µg/dry g	10.9	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.254	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.881	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	156	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**11:00**		**Received: 31-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	34300	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.183	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.6	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	61.8	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.649	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.162	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	52.6	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	88	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	28800	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	29.6	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.355	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19 18:32
Nickel (Ni)	EPA 6020	µg/dry g	12.5	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.307	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.673	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	184	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	20600	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.144	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	4.78	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	47.3	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.347	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0911	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	26.9	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	69	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	18100	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.1	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.134	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19 18:35
Nickel (Ni)	EPA 6020	µg/dry g	7.59	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.204	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.314	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	98.2	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**	
Aluminum (Al)	EPA 6020	µg/dry g	18000	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.129	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	4.32	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	47	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.319	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0742	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	22.5	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	54	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	17000	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	10.2	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0826	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19 18:37
Nickel (Ni)	EPA 6020	µg/dry g	7.06	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.169	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.216	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	76.9	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**10:00**	**Received: 31-Jul-18**		
Aluminum (Al)	EPA 6020	µg/dry g	53700	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.242	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	11.9	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	92.4	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.971	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.218	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	83.2	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	138	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	47100	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	40.3	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.473	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19 19:01
Nickel (Ni)	EPA 6020	µg/dry g	20.6	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.429	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.946	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	299	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**13:37**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17003	14-Jan-19	14-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.369	0.0062	0.0124	NA		E-17003	14-Jan-19	14-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0981	0.0002	0.0004	NA		E-17003	14-Jan-19	14-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0151	0.0033	0.0066	NA		E-17003	14-Jan-19	14-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17003	14-Jan-19	14-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.61	0.0015	0.003	NA		E-17003	14-Jan-19	14-Jan-19
Sample ID: 56747-R1	**B18-10035**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**12:45**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.347	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0923	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0154	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.62	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56748-R1	**B18-10036**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**11:00**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.257	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0913	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0174	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.65	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**7:37**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.222	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0469	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00924	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.863	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56750-R1	**B18-10144**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**9:00**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.151	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0311	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00758	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.589	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56751-R1	**B18-10039**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**10:00**	**Received: 31-Jul-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.398	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.115	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0234	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.63	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**13:37**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**11:00**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	20-Jan-19
Sample ID: 56749-R1	**B18-10143**			**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**9:00**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**10:00**	**Received: 31-Jul-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**13:37**	**Received: 31-Jul-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	14.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	16.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	7.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	5.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	3.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	15.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	16.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	7.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	7.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	4.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	3.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**11:00**	**Received: 31-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	11.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	20	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	3.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	5.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18 7:37**		**Received: 31-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	27.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	19.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	13.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	9.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	2.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**	**Received: 31-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	23.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	18.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	13.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	10.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	2.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**10:00**	**Received: 31-Jul-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	2.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	20.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	0.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	5.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	9.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**13:37**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.28	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.296	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.363	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	0.307	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	0.734	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	0.577	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	0.837	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	0.15	0.074	0.2	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	0.249	0.085	0.25	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.132	0.056	0.25	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.41	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	0.451	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	1.41	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.251	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.26	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.379	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	0.587	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	0.432	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	0.816	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	0.551	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.132	0.056	0.25	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.41	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**11:00**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB095	EPA 8270D	ng/dry g	0.199	0.1	0.2	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB099	EPA 8270D	ng/dry g	0.196	0.028	0.2	NA	J	O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.296	0.027	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB138	EPA 8270D	ng/dry g	0.492	0.057	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB149	EPA 8270D	ng/dry g	0.397	0.092	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB151	EPA 8270D	ng/dry g	0.115	0.073	0.2	NA	J	O-21012	08-Jan-19	04-Feb-19
PCB153	EPA 8270D	ng/dry g	0.64	0.065	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21012	08-Jan-19	04-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB180	EPA 8270D	ng/dry g	0.443	0.154	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB187	EPA 8270D	ng/dry g	0.26	0.168	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21012	08-Jan-19	04-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21012	08-Jan-19	04-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.251	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.411	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.462	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.279	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.326	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.939	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.649	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	1.12	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.201	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	0.215	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	0.195	0.085	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.713	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.16	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.461	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	0.247	0.155	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	0.177	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.247	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.242	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.328	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.165	0.074	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.239	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.677	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.398	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.581	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.259	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.132	0.094	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	0.155	0.085	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.361	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.0676	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.323	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	0.208	0.155	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	0.186	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**10:00**	**Received: 31-Jul-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.22	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.461	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.36	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.615	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.438	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.87	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.216	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.386	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.469	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	0.374	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	0.233	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**13:37**	**Received: 31-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	47			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	56			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	58			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	66			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**11:00**	**Received: 31-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	42			NA		O-21012	08-Jan-19	22-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	58			NA		O-21012	08-Jan-19	22-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21012	08-Jan-19	22-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	104			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	96			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	4.89	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**9:00**	**Received: 31-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	97			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	108			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**10:00**	**Received: 31-Jul-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	66			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	70			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**13:37**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	53	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	65	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	125	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	64	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	37	0	0	NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	0.943	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.678	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.95	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.747	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.41	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.284	0.078	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	1.37	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	1.77	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	30.9	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	17	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	39.3	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	16.4	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	19.8	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	28	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.326	0.092	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	18	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	8.8	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.583	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	23	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.696	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	56.8	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.02	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	3.56	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	6.62	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	26.1	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**12:45**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	55	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	68	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	130	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	71	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	33	0	0	NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.68	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.869	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.48	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.87	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.76	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.247	0.078	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	1.61	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	1.9	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	33.4	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	18	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	40.1	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	17.6	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	20.9	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	30.7	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.367	0.092	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	18.1	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	8.76	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.666	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	24.7	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.831	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	59.1	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.07	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	3.79	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	8	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	29.3	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**11:00**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	43	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	54	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Chrysene)	EPA 8270D	% Recovery	97	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d12-Perylene)	EPA 8270D	% Recovery	55	0	0	NA		O-21012	08-Jan-19	04-Feb-19
(d8-Naphthalene)	EPA 8270D	% Recovery	33	0	0	NA		O-21012	08-Jan-19	04-Feb-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.19	0.059	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.894	0.084	0.5	NA		O-21012	08-Jan-19	04-Feb-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.61	0.076	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.937	0.065	0.5	NA		O-21012	08-Jan-19	04-Feb-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.99	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Acenaphthene	EPA 8270D	ng/dry g	0.238	0.078	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Acenaphthylene	EPA 8270D	ng/dry g	0.959	0.058	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Anthracene	EPA 8270D	ng/dry g	1.44	0.046	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benz[a]anthracene	EPA 8270D	ng/dry g	21.6	0.107	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	12.3	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	28.7	0.063	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	12.3	0.098	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	14.3	0.093	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	22.1	0.111	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Biphenyl	EPA 8270D	ng/dry g	0.322	0.092	0.5	NA	J	O-21012	08-Jan-19	04-Feb-19
Chrysene	EPA 8270D	ng/dry g	11.4	0.067	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.08	0.106	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.717	0.2	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Fluoranthene	EPA 8270D	ng/dry g	18.2	0.035	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.929	0.068	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	44	0.087	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Naphthalene	EPA 8270D	ng/dry g	2.06	0.187	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Perylene	EPA 8270D	ng/dry g	2.64	0.114	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Phenanthrene	EPA 8270D	ng/dry g	8.04	0.074	0.5	NA		O-21012	08-Jan-19	04-Feb-19
Pyrene	EPA 8270D	ng/dry g	20.9	0.048	0.5	NA		O-21012	08-Jan-19	04-Feb-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**			**Matrix: Sediment**		**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
(d10-Acenaphthene)	EPA 8270D	% Recovery	58	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	60	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	69	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	71	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	69	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.69	0.059	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.983	0.084	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.53	0.076	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.23	0.065	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.82	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.328	0.078	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	4.12	0.058	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	6.94	0.046	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	17.9	0.107	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	40	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	35.4	0.063	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	29.5	0.098	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	30.4	0.093	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	35	0.111	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.529	0.092	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	33.9	0.067	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.46	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.762	0.2	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	19.9	0.035	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.33	0.068	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	27	0.087	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.59	0.187	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	8.91	0.114	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	8.88	0.074	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	30.3	0.048	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**9:00**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	76	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	67	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	77	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	72	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	90	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.89	0.059	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.26	0.084	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.38	0.076	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.11	0.065	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.97	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.356	0.078	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.15	0.058	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.04	0.046	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	6.28	0.107	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	16.6	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	16.4	0.063	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	12.7	0.098	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	16.7	0.093	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	14.7	0.111	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.456	0.092	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	10.4	0.067	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.64	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.683	0.2	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	9.45	0.035	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.54	0.068	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	15	0.087	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.86	0.187	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	3.99	0.114	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	7.39	0.074	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	11.2	0.048	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**			**Matrix: Sediment**		**Sampled: 30-Jul-18**		**10:00**	**Received: 31-Jul-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	51	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	43	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	52	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	50	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	64	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.97	0.059	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.12	0.084	0.5	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.27	0.076	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.62	0.065	0.5	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.53	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.496	0.078	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.28	0.058	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.28	0.046	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	8.66	0.107	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	19.3	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	16.8	0.063	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	16.5	0.098	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	23.4	0.093	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	15.4	0.111	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.653	0.092	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	16	0.067	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.51	0.106	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.18	0.2	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	18	0.035	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.96	0.068	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	20.5	0.087	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.42	0.187	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	4.15	0.114	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	12.6	0.074	0.5	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	22.9	0.048	0.5	NA		O-21040	13-Mar-19	19-Mar-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56746-R1	**B18-10034**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**13:37**	**Received: 31-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56747-R1	**B18-10035**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**12:45**	**Received: 31-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56748-R1	**B18-10036**		**Matrix: Sediment**			**Sampled: 30-Jul-18**		**11:00**	**Received: 31-Jul-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21012	08-Jan-19	26-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21012	08-Jan-19	26-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56749-R1	**B18-10143**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**7:37**	**Received: 31-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56750-R1	**B18-10144**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**	**Received: 31-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56751-R1	**B18-10039**		**Matrix: Sediment**			**Sampled: 30-Jul-18**	**10:00**	**Received: 31-Jul-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 09-Jan-19**			**Analyzed: 09-Jan-19**		
20907-B1	QAQC Procedural Blank	C-41079	ND	0.05	0.1	mg/dry kg									
20907-BS1	QAQC Procedural Blank	C-41079	22.5	0.05	0.1	mg/dry kg	24.6	0	91	80 - 120%	PASS				
20907-BS2	QAQC Procedural Blank	C-41079	22.2	0.05	0.1	mg/dry kg	24.6	0	90	80 - 120%	PASS	1	25	PASS	
56742-B1	QAQC Procedural Blank	C-41080	ND	0.05	0.1	mg/dry kg									
56742-BS1	QAQC Procedural Blank	C-41080	20.6	0.05	0.1	mg/dry kg	23.3	0	88	80 - 120%	PASS				
56742-BS2	QAQC Procedural Blank	C-41080	20.8	0.05	0.1	mg/dry kg	23.3	0	89	80 - 120%	PASS	1	25	PASS	
56750-MS1	B18-10144	C-41080	36.5	0.05	0.1	mg/dry kg	21.9	26.5	46	80 - 120%	FAIL				M
56750-MS2	B18-10144	C-41080	37.3	0.05	0.1	mg/dry kg	22.2	26.5	49	80 - 120%	FAIL	6	25	PASS	M
56750-R2	B18-10144	C-41080	26.6	0.05	0.1	mg/dry kg						1	25	PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**		
56742-B1	QAQC Procedural Blank	C-39072	ND	0.02	0.03	mg/dry kg									
56742-BS1	QAQC Procedural Blank	C-39072	1.59	0.02	0.03	mg/dry kg	1.59	0	100	80 - 120%	PASS				
56742-BS2	QAQC Procedural Blank	C-39072	1.67	0.02	0.03	mg/dry kg	1.59	0	105	80 - 120%	PASS	5	25	PASS	
56750-MS1	B18-10144	C-39072	11.3	0.02	0.03	mg/dry kg	6.57	4.97	96	80 - 120%	PASS				
56750-MS2	B18-10144	C-39072	11.8	0.02	0.03	mg/dry kg	6.81	4.97	100	80 - 120%	PASS	4	25	PASS	
56750-R2	B18-10144	C-39072	4.91	0.02	0.03	mg/dry kg						2	25	PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 08-Jan-19**			**Analyzed: 08-Jan-19**		
20907-B1	QAQC Procedural Blank	C-35150	ND	0.1	0.1	%									
56742-B1	QAQC Procedural Blank	C-35151	ND	0.1	0.1	%									
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 14-Jan-19**			**Analyzed: 14-Jan-19**		
20907-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									
56742-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight									
56750-R2	B18-10144	O-19054	0.04	0.01	0.01	% dry weight						0	25	PASS	
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 14-Jan-19**			**Analyzed: 14-Jan-19**		
20907-B1	QAQC Procedural Blank	O-19052	ND	0.01	0.01	% dry weight									
20910-CRM1	QAQC CRM - SRM 1944	O-19052	4.9	0.01	0.01	% dry weight	4.4		111	80 - 120%	PASS				
56742-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight									
56744-CRM1	QAQC CRM - SRM 1944	O-19054	4.71	0.01	0.01	% dry weight	4.4		107	80 - 120%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
56750-R2	B18-10144	O-19054	0.46	0.01	0.01	% dry weight					0	20 PASS	
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**				**Prepared: 24-Dec-18**		**Analyzed: 07-Feb-19**	
20907-B1	QAQC Procedural Blank	E-14071	ND	0.016	0.05	µg/dry g							
20907-BS1	QAQC Procedural Blank	E-14071	45.2	0.016	0.05	µg/dry g	50	0	90	80 - 120% PASS			
20907-BS2	QAQC Procedural Blank	E-14071	45.1	0.016	0.05	µg/dry g	50	0	90	80 - 120% PASS	0	25 PASS	
56742-B1	QAQC Procedural Blank	E-14072	ND	0.016	0.05	µg/dry g							
56742-BS1	QAQC Procedural Blank	E-14072	49.5	0.016	0.05	µg/dry g	50	0	99	80 - 120% PASS			
56742-BS2	QAQC Procedural Blank	E-14072	49.6	0.016	0.05	µg/dry g	50	0	99	80 - 120% PASS	0	25 PASS	
56750-MS1	B18-10144	E-14072	1900	0.016	0.05	µg/dry g	1500	261	109	80 - 120% PASS			
56750-MS2	B18-10144	E-14072	1860	0.016	0.05	µg/dry g	1500	261	107	80 - 120% PASS	2	25 PASS	
56750-R2	B18-10144	E-14072	249	0.016	0.05	µg/dry g					10	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(PCB030)	NA	68			% Recovery	100	68	50 - 123%	PASS			
(PCB112)	NA	70			% Recovery	100	70	53 - 129%	PASS			
(PCB198)	NA	89			% Recovery	100	89	51 - 131%	PASS			
(TCMX)	NA	61			% Recovery	100	61	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 19-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
(PCB030)	NA	78			% Recovery	100	0	78	50 - 123% PASS			
(PCB112)	NA	72			% Recovery	100	0	72	53 - 129% PASS			
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131% PASS			
(TCMX)	NA	70			% Recovery	100	0	70	45 - 117% PASS			
2,4'-DDD	NA	415	0.267	0.5	ng/dry g	500	0	83	60 - 140% PASS			
2,4'-DDE	NA	388	0.2	0.5	ng/dry g	500	0	78	60 - 140% PASS			
2,4'-DDT	NA	402	0.194	0.5	ng/dry g	500	0	80	60 - 140% PASS			
4,4'-DDD	NA	569	0.198	0.5	ng/dry g	500	0	114	60 - 140% PASS			
4,4'-DDE	NA	403	0.193	0.5	ng/dry g	500	0	81	60 - 140% PASS			
4,4'-DDMU	NA	450	0.223	0.5	ng/dry g	500	0	90	60 - 140% PASS			
4,4'-DDT	NA	585	0.128	0.5	ng/dry g	500	0	117	60 - 140% PASS			
Aldrin	NA	518	0.25	0.5	ng/dry g	500	0	104	60 - 140% PASS			
BHC-alpha	NA	403	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS			
BHC-beta	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS			
BHC-delta	NA	414	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
BHC-gamma	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Chlordane-alpha	NA	357	0.187	0.5	ng/dry g	500	0	71	60 - 140% PASS			
Chlordane-gamma	NA	428	0.179	0.5	ng/dry g	500	0	86	60 - 140% PASS			
cis-Nonachlor	NA	355	0.192	0.5	ng/dry g	500	0	71	60 - 140% PASS			
DCPA (Dacthal)	NA	502	5	10	ng/dry g	500	0	100	60 - 140% PASS			
Dicofol	NA	433	2.5	5	ng/dry g	500	0	87	60 - 140% PASS			
Dieldrin	NA	371	0.1	0.2	ng/dry g	500	0	74	60 - 140% PASS			
Endosulfan Sulfate	NA	451	0.25	0.5	ng/dry g	500	0	90	60 - 140% PASS			
Endosulfan-I	NA	9.94	0.25	0.5	ng/dry g	500	0	2	60 - 140% FAIL			Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140% FAIL			Q
Endrin	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140% PASS			
Endrin Aldehyde	NA	49.6	0.25	0.5	ng/dry g	500	0	10	60 - 140% FAIL			Q
Endrin Ketone	NA	529	0.25	0.5	ng/dry g	500	0	106	60 - 140% PASS			
Heptachlor	NA	443	0.25	0.5	ng/dry g	500	0	89	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS			
Hexachlorobenzene	NA	377	0.25	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
Methoxychlor	NA	765	0.25	0.5	ng/dry g	500	0	153	60 - 140%	FAIL			Q
Mirex	NA	427	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS			
Oxychlordane	NA	421	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	679	5	10	ng/dry g	500	0	136	60 - 140%	PASS			
trans-Nonachlor	NA	358	0.186	0.5	ng/dry g	500	0	72	60 - 140%	PASS			
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19			Analyzed: 19-Jan-19		
Toxaphene	NA	5680	10	20	ng/dry g	5000	0	114	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19					Analyzed: 02-Feb-19		
(PCB030)	NA	74			% Recovery	100	0	74	50 - 123%	PASS	5	30	PASS	
(PCB112)	NA	66			% Recovery	100	0	66	53 - 129%	PASS	9	30	PASS	
(PCB198)	NA	92			% Recovery	100	0	92	51 - 131%	PASS	0	30	PASS	
(TCMX)	NA	65			% Recovery	100	0	65	45 - 117%	PASS	7	30	PASS	
2,4'-DDD	NA	396	0.267	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
2,4'-DDE	NA	368	0.2	0.5	ng/dry g	500	0	74	60 - 140%	PASS	5	30	PASS	
2,4'-DDT	NA	392	0.194	0.5	ng/dry g	500	0	78	60 - 140%	PASS	3	30	PASS	
4,4'-DDD	NA	551	0.198	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	
4,4'-DDE	NA	380	0.193	0.5	ng/dry g	500	0	76	60 - 140%	PASS	6	30	PASS	
4,4'-DDMU	NA	426	0.223	0.5	ng/dry g	500	0	85	60 - 140%	PASS	6	30	PASS	
4,4'-DDT	NA	592	0.128	0.5	ng/dry g	500	0	118	60 - 140%	PASS	1	30	PASS	
Aldrin	NA	500	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS	4	30	PASS	
BHC-alpha	NA	395	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	2	30	PASS	
BHC-beta	NA	440	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	397	0.25	0.5	ng/dry g	500	0	79	60 - 140%	PASS	5	30	PASS	
BHC-gamma	NA	408	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	340	0.187	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
Chlordane-gamma	NA	411	0.179	0.5	ng/dry g	500	0	82	60 - 140%	PASS	5	30	PASS	
cis-Nonachlor	NA	341	0.192	0.5	ng/dry g	500	0	68	60 - 140%	PASS	4	30	PASS	
DCPA (Dacthal)	NA	482	5	10	ng/dry g	500	0	96	60 - 140%	PASS	4	30	PASS	
Dicofol	NA	446	2.5	5	ng/dry g	500	0	89	60 - 140%	PASS	2	30	PASS	
Dieldrin	NA	361	0.1	0.2	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan Sulfate	NA	447	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	1	30	PASS	
Endosulfan-I	NA	9.69	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	0	30	PASS	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	2	30	PASS	
Endrin Aldehyde	NA	150	0.25	0.5	ng/dry g	500	0	30	60 - 140%	FAIL	100	30	FAIL	Q
Endrin Ketone	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	457	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	460	0.25	0.5	ng/dry g	500	0	92	60 - 140%	PASS	14	30	PASS	
Hexachlorobenzene	NA	360	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	796	0.25	0.5	ng/dry g	500	0	159	60 - 140%	PASS	4	30	PASS	
Mirex	NA	438	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	3	30	PASS	
Oxychlordane	NA	415	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
Perthane	NA	673	5	10	ng/dry g	500	0	135	60 - 140%	PASS	1	30	PASS	
trans-Nonachlor	NA	349	0.186	0.5	ng/dry g	500	0	70	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 19-Jan-19		
Toxaphene	NA	5650	10	20	ng/dry g	5000	0	113	60 - 140%	PASS	1	30	PASS	
Sample ID: 20910-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 02-Feb-19		
(PCB030)	NA	82			% Recovery	100		82	33 - 149%	PASS				
(PCB112)	NA	82			% Recovery	100		82	49 - 120%	PASS				
(PCB198)	NA	58			% Recovery	100		58	35 - 123%	PASS				
(TCMX)	NA	81			% Recovery	100		81	37 - 138%	PASS				
2,4'-DDD	NA	35.6	0.267	0.5	ng/dry g	38		94	60 - 140%	PASS				
2,4'-DDE	NA	21.2	0.2	0.5	ng/dry g	19		112	60 - 140%	PASS				
4,4'-DDD	NA	132	0.198	0.5	ng/dry g	108		122	60 - 140%	PASS				
4,4'-DDE	NA	97.6	0.193	0.5	ng/dry g	86		113	60 - 140%	PASS				
4,4'-DDT	NA	167	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	17.7	0.187	0.5	ng/dry g	16.5		107	60 - 140%	PASS				
Chlordane-gamma	NA	25.9	0.179	0.5	ng/dry g	19		136	60 - 140%	PASS				
cis-Nonachlor	NA	3.65	0.192	0.5	ng/dry g	3.7		99	60 - 140%	PASS				
Hexachlorobenzene	NA	5.31	0.25	0.5	ng/dry g	6		88	60 - 140%	PASS				
trans-Nonachlor	NA	10.1	0.186	0.5	ng/dry g	8.2		123	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	76			% Recovery	100	76	50 - 123%	PASS			
(PCB112)	NA	76			% Recovery	100	76	53 - 129%	PASS			
(PCB198)	NA	92			% Recovery	100	92	51 - 131%	PASS			
(TCMX)	NA	66			% Recovery	100	66	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
(PCB030)	NA	69			% Recovery	100	0	69	50 - 123% PASS			
(PCB112)	NA	77			% Recovery	100	0	77	53 - 129% PASS			
(PCB198)	NA	98			% Recovery	100	0	98	51 - 131% PASS			
(TCMX)	NA	51			% Recovery	100	0	51	45 - 117% PASS			
2,4'-DDD	NA	433	0.267	0.5	ng/dry g	500	0	87	60 - 140% PASS			
2,4'-DDE	NA	404	0.2	0.5	ng/dry g	500	0	81	60 - 140% PASS			
2,4'-DDT	NA	409	0.194	0.5	ng/dry g	500	0	82	60 - 140% PASS			
4,4'-DDD	NA	568	0.198	0.5	ng/dry g	500	0	114	60 - 140% PASS			
4,4'-DDE	NA	420	0.193	0.5	ng/dry g	500	0	84	60 - 140% PASS			
4,4'-DDMU	NA	461	0.223	0.5	ng/dry g	500	0	92	60 - 140% PASS			
4,4'-DDT	NA	576	0.128	0.5	ng/dry g	500	0	115	60 - 140% PASS			
Aldrin	NA	471	0.25	0.5	ng/dry g	500	0	94	60 - 140% PASS			
BHC-alpha	NA	336	0.25	0.5	ng/dry g	500	0	67	60 - 140% PASS			
BHC-beta	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS			
BHC-delta	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140% PASS			
BHC-gamma	NA	365	0.25	0.5	ng/dry g	500	0	73	60 - 140% PASS			
Chlordane-alpha	NA	362	0.187	0.5	ng/dry g	500	0	72	60 - 140% PASS			
Chlordane-gamma	NA	434	0.179	0.5	ng/dry g	500	0	87	60 - 140% PASS			
cis-Nonachlor	NA	376	0.192	0.5	ng/dry g	500	0	75	60 - 140% PASS			
DCPA (Dacthal)	NA	483	5	10	ng/dry g	500	0	97	60 - 140% PASS			
Dicofol	NA	481	2.5	5	ng/dry g	500	0	96	60 - 140% PASS			
Dieldrin	NA	389	0.1	0.2	ng/dry g	500	0	78	60 - 140% PASS			
Endosulfan Sulfate	NA	351	0.25	0.5	ng/dry g	500	0	70	60 - 140% PASS			
Endosulfan-I	NA	12.6	0.25	0.5	ng/dry g	500	0	3	60 - 140% FAIL			Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140% FAIL			Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Endrin Aldehyde	NA	62.3	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endrin Ketone	NA	498	0.25	0.5	ng/dry g	500	0	100	60 - 140% PASS			
Heptachlor	NA	371	0.25	0.5	ng/dry g	500	0	74	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Hexachlorobenzene	NA	334	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS			
Methoxychlor	NA	713	0.25	0.5	ng/dry g	500	0	143	60 - 140%	FAIL			Q
Mirex	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			
Oxychlordane	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	651	5	10	ng/dry g	500	0	130	60 - 140%	PASS			
trans-Nonachlor	NA	374	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	5480	10	20	ng/dry g	5000	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 05-Feb-19		
(PCB030)	NA	73			% Recovery	100	0	73	50 - 123%	PASS	6	30	PASS	
(PCB112)	NA	75			% Recovery	100	0	75	53 - 129%	PASS	3	30	PASS	
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131%	PASS	3	30	PASS	
(TCMX)	NA	58			% Recovery	100	0	58	45 - 117%	PASS	13	30	PASS	
2,4'-DDD	NA	435	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	402	0.2	0.5	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
2,4'-DDT	NA	417	0.194	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDD	NA	575	0.198	0.5	ng/dry g	500	0	115	60 - 140%	PASS	1	30	PASS	
4,4'-DDE	NA	417	0.193	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	451	0.223	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	598	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	4	30	PASS	
Aldrin	NA	495	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	5	30	PASS	
BHC-alpha	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	10	30	PASS	
BHC-beta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	389	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	1	30	PASS	
BHC-gamma	NA	388	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	7	30	PASS	
Chlordane-alpha	NA	372	0.187	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140%	PASS	1	30	PASS	
cis-Nonachlor	NA	379	0.192	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
DCPA (Dacthal)	NA	497	5	10	ng/dry g	500	0	99	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	587	2.5	5	ng/dry g	500	0	117	60 - 140%	PASS	20	30	PASS	
Dieldrin	NA	392	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS	0	30	PASS	
Endosulfan Sulfate	NA	361	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	12.1	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	40	30	FAIL	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	446	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	3	30	PASS	
Endrin Aldehyde	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140%	FAIL	55	30	FAIL	Q
Endrin Ketone	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	411	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	8	30	PASS	
Hexachlorobenzene	NA	348	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	728	0.25	0.5	ng/dry g	500	0	146	60 - 140%	PASS	2	30	FAIL	Q
Mirex	NA	442	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS	
Oxychlordane	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	5	30	PASS	
Perthane	NA	672	5	10	ng/dry g	500	0	134	60 - 140%	PASS	3	30	PASS	
trans-Nonachlor	NA	383	0.186	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Toxaphene	NA	5550	10	20	ng/dry g	5000	0	111	60 - 140%	PASS	1	30	PASS	
Sample ID: 56744-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
(PCB030)	NA	92			% Recovery	100		92	33 - 149%	PASS				
(PCB112)	NA	95			% Recovery	100		95	49 - 120%	PASS				
(PCB198)	NA	54			% Recovery	100		54	35 - 123%	PASS				
(TCMX)	NA	94			% Recovery	100		94	37 - 138%	PASS				
2,4'-DDD	NA	39.5	0.267	0.5	ng/dry g	38		104	60 - 140%	PASS				
2,4'-DDE	NA	25.1	0.2	0.5	ng/dry g	19		132	60 - 140%	PASS				
4,4'-DDD	NA	136	0.198	0.5	ng/dry g	108		126	60 - 140%	PASS				
4,4'-DDE	NA	113	0.193	0.5	ng/dry g	86		131	60 - 140%	PASS				
4,4'-DDT	NA	166	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	21.1	0.187	0.5	ng/dry g	16.5		128	60 - 140%	PASS				
Chlordane-gamma	NA	30.2	0.179	0.5	ng/dry g	19		159	60 - 140%	FAIL				1
cis-Nonachlor	NA	3.92	0.192	0.5	ng/dry g	3.7		106	60 - 140%	PASS				
Hexachlorobenzene	NA	6	0.25	0.5	ng/dry g	6		100	60 - 140%	PASS				
trans-Nonachlor	NA	11.3	0.186	0.5	ng/dry g	8.2		138	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
(PCB030)	NA	77			% Recovery	100	0	77	24 - 118%	PASS		
(PCB112)	NA	79			% Recovery	100	0	79	34 - 121%	PASS		
(PCB198)	NA	86			% Recovery	100	0	86	37 - 125%	PASS		
(TCMX)	NA	67			% Recovery	100	0	67	22 - 117%	PASS		
2,4'-DDD	NA	84.3	0.267	0.5	ng/dry g	90.8	0	93	60 - 140%	PASS		
2,4'-DDE	NA	73.7	0.2	0.5	ng/dry g	90.8	0	81	60 - 140%	PASS		
2,4'-DDT	NA	81.9	0.194	0.5	ng/dry g	90.8	0	90	60 - 140%	PASS		
4,4'-DDD	NA	113	0.198	0.5	ng/dry g	90.8	0	124	60 - 140%	PASS		
4,4'-DDE	NA	78	0.193	0.5	ng/dry g	90.8	0	86	60 - 140%	PASS		
4,4'-DDMU	NA	88.5	0.223	0.5	ng/dry g	90.8	0	97	60 - 140%	PASS		
4,4'-DDT	NA	118	0.128	0.5	ng/dry g	90.8	0	130	60 - 140%	PASS		
Aldrin	NA	95.8	0.25	0.5	ng/dry g	90.8	0	106	60 - 140%	PASS		
BHC-alpha	NA	74.2	0.25	0.5	ng/dry g	90.8	0	82	60 - 140%	PASS		
BHC-beta	NA	87.1	0.25	0.5	ng/dry g	90.8	0	96	60 - 140%	PASS		
BHC-delta	NA	79.1	0.25	0.5	ng/dry g	90.8	0	87	60 - 140%	PASS		
BHC-gamma	NA	75.9	0.25	0.5	ng/dry g	90.8	0	84	60 - 140%	PASS		
Chlordane-alpha	NA	71.3	0.187	0.5	ng/dry g	90.8	0	79	60 - 140%	PASS		
Chlordane-gamma	NA	84.8	0.179	0.5	ng/dry g	90.8	0	93	60 - 140%	PASS		
cis-Nonachlor	NA	70.4	0.192	0.5	ng/dry g	90.8	0	78	60 - 140%	PASS		
DCPA (Dacthal)	NA	97.1	5	10	ng/dry g	90.8	0	107	60 - 140%	PASS		
Dicofol	NA	94.8	2.5	5	ng/dry g	90.8	0	104	60 - 140%	PASS		
Dieldrin	NA	68.9	0.1	0.2	ng/dry g	90.8	0	76	60 - 140%	PASS		
Endosulfan Sulfate	NA	73.2	0.25	0.5	ng/dry g	90.8	0	81	60 - 140%	PASS		
Endosulfan-I	NA	2.23	0.25	0.5	ng/dry g	90.8	0	2	60 - 140%	FAIL		M
Endosulfan-II	NA	14.1	0.25	0.5	ng/dry g	90.8	0	16	60 - 140%	FAIL		M
Endrin	NA	88.8	0.25	0.5	ng/dry g	90.8	0	98	60 - 140%	PASS		
Endrin Aldehyde	NA	6.21	0.25	0.5	ng/dry g	90.8	0	7	60 - 140%	FAIL		Q,M
Endrin Ketone	NA	93.2	0.25	0.5	ng/dry g	90.8	0	103	60 - 140%	PASS		
Heptachlor	NA	91.5	0.25	0.5	ng/dry g	90.8	0	101	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	91.9	0.25	0.5	ng/dry g	90.8	0	101	60 - 140%	PASS			
Hexachlorobenzene	NA	68.5	0.25	0.5	ng/dry g	90.8	0	75	60 - 140%	PASS			
Methoxychlor	NA	144	0.25	0.5	ng/dry g	90.8	0	159	60 - 140%	FAIL			M
Mirex	NA	73.9	0.25	0.5	ng/dry g	90.8	0	81	60 - 140%	PASS			
Oxychlordane	NA	85.3	0.25	0.5	ng/dry g	90.8	0	94	60 - 140%	PASS			
Perthane	NA	135	5	10	ng/dry g	90.8	0	149	60 - 140%	FAIL			M
trans-Nonachlor	NA	73.8	0.186	0.5	ng/dry g	90.8	0	81	60 - 140%	PASS			
		Method: EPA 8270D-NCI			Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	968	10	20	ng/dry g	908	0	107	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**			**Received: 31-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 06-Feb-19		
(PCB030)	NA	77			% Recovery	100	0	77	24 - 118%	PASS	0	30	PASS	
(PCB112)	NA	77			% Recovery	100	0	77	34 - 121%	PASS	3	30	PASS	
(PCB198)	NA	91			% Recovery	100	0	91	37 - 125%	PASS	6	30	PASS	
(TCMX)	NA	67			% Recovery	100	0	67	22 - 117%	PASS	0	30	PASS	
2,4'-DDD	NA	83.6	0.267	0.5	ng/dry g	91.3	0	92	60 - 140%	PASS	1	30	PASS	
2,4'-DDE	NA	73	0.2	0.5	ng/dry g	91.3	0	80	60 - 140%	PASS	1	30	PASS	
2,4'-DDT	NA	81.4	0.194	0.5	ng/dry g	91.3	0	89	60 - 140%	PASS	1	30	PASS	
4,4'-DDD	NA	113	0.198	0.5	ng/dry g	91.3	0	124	60 - 140%	PASS	0	30	PASS	
4,4'-DDE	NA	78.4	0.193	0.5	ng/dry g	91.3	0	86	60 - 140%	PASS	0	30	PASS	
4,4'-DDMU	NA	87	0.223	0.5	ng/dry g	91.3	0	95	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	118	0.128	0.5	ng/dry g	91.3	0	129	60 - 140%	PASS	1	30	PASS	
Aldrin	NA	94.9	0.25	0.5	ng/dry g	91.3	0	104	60 - 140%	PASS	2	30	PASS	
BHC-alpha	NA	73.6	0.25	0.5	ng/dry g	91.3	0	81	60 - 140%	PASS	1	30	PASS	
BHC-beta	NA	84.9	0.25	0.5	ng/dry g	91.3	0	93	60 - 140%	PASS	3	30	PASS	
BHC-delta	NA	79	0.25	0.5	ng/dry g	91.3	0	87	60 - 140%	PASS	0	30	PASS	
BHC-gamma	NA	75.7	0.25	0.5	ng/dry g	91.3	0	83	60 - 140%	PASS	1	30	PASS	
Chlordane-alpha	NA	69.1	0.187	0.5	ng/dry g	91.3	0	76	60 - 140%	PASS	4	30	PASS	
Chlordane-gamma	NA	81.9	0.179	0.5	ng/dry g	91.3	0	90	60 - 140%	PASS	3	30	PASS	
cis-Nonachlor	NA	70.7	0.192	0.5	ng/dry g	91.3	0	77	60 - 140%	PASS	1	30	PASS	
DCPA (Dacthal)	NA	96.5	5	10	ng/dry g	91.3	0	106	60 - 140%	PASS	1	30	PASS	
Dicofol	NA	99.2	2.5	5	ng/dry g	91.3	0	109	60 - 140%	PASS	5	30	PASS	
Dieldrin	NA	70.6	0.1	0.2	ng/dry g	91.3	0	77	60 - 140%	PASS	1	30	PASS	
Endosulfan Sulfate	NA	72.7	0.25	0.5	ng/dry g	91.3	0	80	60 - 140%	PASS	1	30	PASS	
Endosulfan-I	NA	1.67	0.25	0.5	ng/dry g	91.3	0	2	60 - 140%	FAIL	0	30	PASS	M
Endosulfan-II	NA	15.9	0.25	0.5	ng/dry g	91.3	0	17	60 - 140%	FAIL	6	30	PASS	M
Endrin	NA	90.5	0.25	0.5	ng/dry g	91.3	0	99	60 - 140%	PASS	1	30	PASS	
Endrin Aldehyde	NA	32.1	0.25	0.5	ng/dry g	91.3	0	35	60 - 140%	FAIL	133	30	FAIL	Q,M
Endrin Ketone	NA	94.7	0.25	0.5	ng/dry g	91.3	0	104	60 - 140%	PASS	1	30	PASS	
Heptachlor	NA	87	0.25	0.5	ng/dry g	91.3	0	95	60 - 140%	PASS	6	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	102	0.25	0.5	ng/dry g	91.3	0	112	60 - 140%	PASS	10	30	PASS	
Hexachlorobenzene	NA	70.6	0.25	0.5	ng/dry g	91.3	0	77	60 - 140%	PASS	3	30	PASS	
Methoxychlor	NA	146	0.25	0.5	ng/dry g	91.3	0	160	60 - 140%	FAIL	1	30	PASS	M
Mirex	NA	77.5	0.25	0.5	ng/dry g	91.3	0	85	60 - 140%	PASS	5	30	PASS	
Oxychlordane	NA	87.8	0.25	0.5	ng/dry g	91.3	0	96	60 - 140%	PASS	2	30	PASS	
Perthane	NA	133	5	10	ng/dry g	91.3	0	146	60 - 140%	FAIL	2	30	PASS	M
trans-Nonachlor	NA	70.8	0.186	0.5	ng/dry g	91.3	0	78	60 - 140%	PASS	4	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Toxaphene	NA	831	10	20	ng/dry g	912	0	91	60 - 140%	PASS	16	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**			**Received: 31-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 06-Feb-19			
(PCB030)	NA	72			% Recovery	100	72	24 - 118%	PASS	3	30	PASS	
(PCB112)	NA	73			% Recovery	100	73	34 - 121%	PASS	3	30	PASS	
(PCB198)	NA	89			% Recovery	100	89	37 - 125%	PASS	1	30	PASS	
(TCMX)	NA	63			% Recovery	100	63	22 - 117%	PASS	5	30	PASS	
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g					0	30	PASS	
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g					0	30	PASS	
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g					0	30	PASS	
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g					0	30	PASS	
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g					0	30	PASS	
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g					0	30	PASS	
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g					0	30	PASS	
Aldrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-alpha	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-beta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-delta	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
BHC-gamma	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g					0	30	PASS	
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g					0	30	PASS	
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g					0	30	PASS	
DCPA (Dacthal)	NA	ND	5	10	ng/dry g					0	30	PASS	
Dicofol	NA	ND	2.5	5	ng/dry g					0	30	PASS	
Dieldrin	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	
Heptachlor	NA	ND	0.25	0.5	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Methoxychlor	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Mirex	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Oxychlordane	NA	ND	0.25	0.5	ng/dry g					0	30 PASS	
Perthane	NA	ND	5	10	ng/dry g					0	30 PASS	
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g					0	30 PASS	
		Method: EPA 8270D-NCI			Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g					0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.67	1	5	µg/dry g	2	0	83	70 - 130%	PASS		
Antimony (Sb)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Arsenic (As)	NA	1.92	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS		
Barium (Ba)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Beryllium (Be)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS		
Cadmium (Cd)	NA	1.99	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Chromium (Cr)	NA	1.96	0.0025	0.005	µg/dry g	2	0	98	70 - 130%	PASS		
Copper (Cu)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Iron (Fe)	NA	1.89	1	5	µg/dry g	2	0	94	70 - 130%	PASS		
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Nickel (Ni)	NA	1.98	0.01	0.02	µg/dry g	2	0	99	70 - 130%	PASS		
Selenium (Se)	NA	2.11	0.025	0.05	µg/dry g	2	0	105	70 - 130%	PASS		
Silver (Ag)	NA	0.203	0.01	0.02	µg/dry g	0.2	0	101	70 - 130%	PASS		
Zinc (Zn)	NA	1.91	0.025	0.05	µg/dry g	2	0	95	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18					Analyzed: 07-Feb-19	
Aluminum (Al)	NA	1.64	1	5	µg/dry g	2	0	82	70 - 130%	PASS	2	30 PASS	
Antimony (Sb)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	1	30 PASS	
Barium (Ba)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Beryllium (Be)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30 PASS	
Cadmium (Cd)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Chromium (Cr)	NA	1.97	0.0025	0.005	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
Copper (Cu)	NA	2.05	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	0	30 PASS	
Iron (Fe)	NA	1.87	1	5	µg/dry g	2	0	94	70 - 130%	PASS	0	30 PASS	
Lead (Pb)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30 PASS	
Nickel (Ni)	NA	2	0.01	0.02	µg/dry g	2	0	100	70 - 130%	PASS	1	30 PASS	
Selenium (Se)	NA	2.13	0.025	0.05	µg/dry g	2	0	107	70 - 130%	PASS	2	30 PASS	
Silver (Ag)	NA	0.206	0.01	0.02	µg/dry g	0.2	0	103	70 - 130%	PASS	1	30 PASS	
Zinc (Zn)	NA	1.92	0.025	0.05	µg/dry g	2	0	96	70 - 130%	PASS	0	30 PASS	
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19					Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1070	1E-05	0.00002	µg/dry g	1000	0	107	70 - 130%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20908-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14071		Prepared: 24-Dec-18				Analyzed: 07-Feb-19	
Aluminum (Al)	NA	11900	1	5	µg/dry g	10100		118	42 - 124%	PASS		
Antimony (Sb)	NA	112	0.025	0.05	µg/dry g	145		77	10 - 137%	PASS		
Arsenic (As)	NA	172	0.025	0.05	µg/dry g	171		101	66 - 122%	PASS		
Beryllium (Be)	NA	101	0.025	0.05	µg/dry g	102		99	72 - 120%	PASS		
Cadmium (Cd)	NA	205	0.0025	0.005	µg/dry g	225		91	70 - 117%	PASS		
Chromium (Cr)	NA	156	0.0025	0.005	µg/dry g	144		108	66 - 123%	PASS		
Copper (Cu)	NA	176	0.0025	0.005	µg/dry g	174		101	71 - 119%	PASS		
Iron (Fe)	NA	21700	1	5	µg/dry g	15000		145	33 - 155%	PASS		
Lead (Pb)	NA	108	0.0025	0.005	µg/dry g	111		97	71 - 129%	PASS		
Nickel (Ni)	NA	96.2	0.01	0.02	µg/dry g	98.3		98	65 - 121%	PASS		
Selenium (Se)	NA	219	0.025	0.05	µg/dry g	206		106	64 - 122%	PASS		
Silver (Ag)	NA	42.5	0.01	0.02	µg/dry g	45.5		93	66 - 124%	PASS		
Zinc (Zn)	NA	203	0.025	0.05	µg/dry g	207		98	67 - 125%	PASS		
	Method: EPA 245.7				Batch ID: E-15088		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.4	1E-05	0.00002	µg/dry g	12		87	57 - 133%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
		Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18			Analyzed: 08-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19			Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.84	1	5	µg/dry g	2	0	92	70 - 130%	PASS		
Antimony (Sb)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS		
Barium (Ba)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Beryllium (Be)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Cadmium (Cd)	NA	2.07	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS		
Chromium (Cr)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Nickel (Ni)	NA	1.95	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS		
Selenium (Se)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
Silver (Ag)	NA	0.2	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18					Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.79	1	5	µg/dry g	2	0	89	70 - 130%	PASS	2	30	PASS
Antimony (Sb)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	0	30	PASS
Barium (Ba)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	1	30	PASS
Beryllium (Be)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS
Cadmium (Cd)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	0	30	PASS
Chromium (Cr)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	1	30	PASS
Copper (Cu)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	0	30	PASS
Iron (Fe)	NA	1.93	1	5	µg/dry g	2	0	96	70 - 130%	PASS	0	30	PASS
Lead (Pb)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	2	30	PASS
Nickel (Ni)	NA	1.96	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS	0	30	PASS
Selenium (Se)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS	0	30	PASS
Silver (Ag)	NA	0.204	0.01	0.02	µg/dry g	0.2	0	102	70 - 130%	PASS	2	30	PASS
Zinc (Zn)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30	PASS
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19					Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1070	1E-05	0.00002	µg/dry g	1000	0	107	70 - 130%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56743-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	14000	1	5	µg/dry g	10100	139	42 - 124%	FAIL			
Antimony (Sb)	NA	118	0.025	0.05	µg/dry g	145	81	10 - 137%	PASS			
Arsenic (As)	NA	175	0.025	0.05	µg/dry g	171	102	66 - 122%	PASS			
Beryllium (Be)	NA	102	0.025	0.05	µg/dry g	102	100	72 - 120%	PASS			
Cadmium (Cd)	NA	220	0.0025	0.005	µg/dry g	225	98	70 - 117%	PASS			
Chromium (Cr)	NA	160	0.0025	0.005	µg/dry g	144	111	66 - 123%	PASS			
Copper (Cu)	NA	170	0.0025	0.005	µg/dry g	174	98	71 - 119%	PASS			
Iron (Fe)	NA	23500	1	5	µg/dry g	15000	157	33 - 155%	FAIL			
Lead (Pb)	NA	111	0.0025	0.005	µg/dry g	111	100	71 - 129%	PASS			
Nickel (Ni)	NA	94.4	0.01	0.02	µg/dry g	98.3	96	65 - 121%	PASS			
Selenium (Se)	NA	213	0.025	0.05	µg/dry g	206	103	64 - 122%	PASS			
Silver (Ag)	NA	41.6	0.01	0.02	µg/dry g	45.5	91	66 - 124%	PASS			
Zinc (Zn)	NA	211	0.025	0.05	µg/dry g	207	102	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.5	1E-05	0.00002	µg/dry g	12	88	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**			
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18			Analyzed: 08-Feb-19			
Aluminum (Al)	NA	16800	1	5	µg/dry g	60.1	17800	-1664	70 - 130%	FAIL			SH
Antimony (Sb)	NA	60.2	0.025	0.05	µg/dry g	60.1	0.128	100	70 - 130%	PASS			
Arsenic (As)	NA	66.9	0.025	0.05	µg/dry g	60.1	4.45	104	70 - 130%	PASS			
Barium (Ba)	NA	104	0.025	0.05	µg/dry g	60.1	46.8	95	70 - 130%	PASS			
Beryllium (Be)	NA	63.3	0.025	0.05	µg/dry g	60.1	0.329	105	70 - 130%	PASS			
Cadmium (Cd)	NA	61.7	0.0025	0.005	µg/dry g	60.1	0.0729	103	70 - 130%	PASS			
Chromium (Cr)	NA	86	0.0025	0.005	µg/dry g	60.1	22.2	106	70 - 130%	PASS			
Copper (Cu)	NA	110	0.0025	0.005	µg/dry g	60.1	52.6	96	70 - 130%	PASS			
Iron (Fe)	NA	16300	1	5	µg/dry g	60.1	16800	-832	70 - 130%	FAIL			SH
Lead (Pb)	NA	66.4	0.0025	0.005	µg/dry g	60.1	9.96	94	70 - 130%	PASS			
Nickel (Ni)	NA	65.8	0.01	0.02	µg/dry g	60.1	6.76	98	70 - 130%	PASS			
Selenium (Se)	NA	62.5	0.025	0.05	µg/dry g	60.1	0.165	104	70 - 130%	PASS			
Silver (Ag)	NA	6.21	0.01	0.02	µg/dry g	6.01	0.201	100	70 - 130%	PASS			
Zinc (Zn)	NA	132	0.025	0.05	µg/dry g	60.1	75.2	95	70 - 130%	PASS			
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19			Analyzed: 11-Jan-19			
Mercury (Hg)	NA	0.255	1E-05	0.00002	µg/dry g	0.15	0.0833	114	70 - 130%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**			**Received: 31-Jul-18**		
	Method: EPA 6020				Batch ID: E-14072			Prepared: 24-Dec-18				Analyzed: 08-Feb-19		
Aluminum (Al)	NA	17000	1	5	µg/dry g	60.1	17800	-1331	70 - 130%	FAIL	22	30	PASS	SH
Antimony (Sb)	NA	60	0.025	0.05	µg/dry g	60.1	0.128	100	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	66.5	0.025	0.05	µg/dry g	60.1	4.45	103	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	105	0.025	0.05	µg/dry g	60.1	46.8	97	70 - 130%	PASS	2	30	PASS	
Beryllium (Be)	NA	64.1	0.025	0.05	µg/dry g	60.1	0.329	106	70 - 130%	PASS	1	30	PASS	
Cadmium (Cd)	NA	61.5	0.0025	0.005	µg/dry g	60.1	0.0729	102	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	86.7	0.0025	0.005	µg/dry g	60.1	22.2	107	70 - 130%	PASS	1	30	PASS	
Copper (Cu)	NA	111	0.0025	0.005	µg/dry g	60.1	52.6	97	70 - 130%	PASS	1	30	PASS	
Iron (Fe)	NA	16800	1	5	µg/dry g	60.1	16800	0	70 - 130%	FAIL	200	30	FAIL	SH
Lead (Pb)	NA	67.4	0.0025	0.005	µg/dry g	60.1	9.96	96	70 - 130%	PASS	2	30	PASS	
Nickel (Ni)	NA	66.5	0.01	0.02	µg/dry g	60.1	6.76	99	70 - 130%	PASS	1	30	PASS	
Selenium (Se)	NA	63.1	0.025	0.05	µg/dry g	60.1	0.165	105	70 - 130%	PASS	1	30	PASS	
Silver (Ag)	NA	6.25	0.01	0.02	µg/dry g	6.01	0.201	101	70 - 130%	PASS	1	30	PASS	
Zinc (Zn)	NA	134	0.025	0.05	µg/dry g	60.1	75.2	98	70 - 130%	PASS	3	30	PASS	
	Method: EPA 245.7				Batch ID: E-15089			Prepared: 11-Jan-19				Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.257	1E-05	0.00002	µg/dry g	0.15	0.0833	116	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**			**Received: 31-Jul-18**		
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18			Analyzed: 08-Feb-19		
Aluminum (Al)	NA	17600	1	5	µg/dry g					2	30	PASS
Antimony (Sb)	NA	0.128	0.025	0.05	µg/dry g					1	30	PASS
Arsenic (As)	NA	4.58	0.025	0.05	µg/dry g					6	30	PASS
Barium (Ba)	NA	46.5	0.025	0.05	µg/dry g					1	30	PASS
Beryllium (Be)	NA	0.338	0.025	0.05	µg/dry g					6	30	PASS
Cadmium (Cd)	NA	0.0715	0.0025	0.005	µg/dry g					4	30	PASS
Chromium (Cr)	NA	21.8	0.0025	0.005	µg/dry g					3	30	PASS
Copper (Cu)	NA	51.2	0.0025	0.005	µg/dry g					5	30	PASS
Iron (Fe)	NA	16500	1	5	µg/dry g					3	30	PASS
Lead (Pb)	NA	9.74	0.0025	0.005	µg/dry g					5	30	PASS
Nickel (Ni)	NA	6.45	0.01	0.02	µg/dry g					9	30	PASS
Selenium (Se)	NA	0.16	0.025	0.05	µg/dry g					5	30	PASS
Silver (Ag)	NA	0.186	0.01	0.02	µg/dry g					15	30	PASS
Zinc (Zn)	NA	73.5	0.025	0.05	µg/dry g					5	30	PASS
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.084	1E-05	0.00002	µg/dry g					2	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 14-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00863	0.0018	0.0036	µmol/dry g	0.0089	0	97	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0164	0.0062	0.0124	µmol/dry g	0.0157	0	104	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00485	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.017	0.0033	0.0066	µmol/dry g	0.017	0	100	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000773	0.0047	0.0094	µmol/dry g	0.0009	0	83	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0149	0.0015	0.003	µmol/dry g	0.0153	0	97	70 - 130%	PASS				
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17003		Prepared: 14-Jan-19					Analyzed: 16-Jan-19		
Cadmium (Cd) - SEM	NA	0.00861	0.0018	0.0036	µmol/dry g	0.0089	0	97	70 - 130%	PASS	0	30	PASS	
Copper (Cu) - SEM	NA	0.0164	0.0062	0.0124	µmol/dry g	0.0157	0	104	70 - 130%	PASS	0	30	PASS	
Lead (Pb) - SEM	NA	0.00483	0.0002	0.0004	µmol/dry g	0.0048	0	100	70 - 130%	PASS	0	30	PASS	
Nickel (Ni) - SEM	NA	0.017	0.0033	0.0066	µmol/dry g	0.017	0	100	70 - 130%	PASS	0	30	PASS	
Silver (Ag) - SEM	NA	0.000781	0.0047	0.0094	µmol/dry g	0.0009	0	84	70 - 130%	PASS	1	30	PASS	
Zinc (Zn) - SEM	NA	0.0149	0.0015	0.003	µmol/dry g	0.0153	0	97	70 - 130%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00903	0.0018	0.0036	µmol/dry g	0.0089	0	101	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0165	0.0062	0.0124	µmol/dry g	0.0157	0	105	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.00478	0.0002	0.0004	µmol/dry g	0.0048	0	99	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0167	0.0033	0.0066	µmol/dry g	0.017	0	98	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000869	0.0047	0.0094	µmol/dry g	0.0009	0	94	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	70 - 130%	PASS				
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00912	0.0018	0.0036	µmol/dry g	0.0089	0	102	70 - 130%	PASS	1	30	PASS	
Copper (Cu) - SEM	NA	0.0163	0.0062	0.0124	µmol/dry g	0.0157	0	104	70 - 130%	PASS	1	30	PASS	
Lead (Pb) - SEM	NA	0.0047	0.0002	0.0004	µmol/dry g	0.0048	0	97	70 - 130%	PASS	2	30	PASS	
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	70 - 130%	PASS	1	30	PASS	
Silver (Ag) - SEM	NA	0.000903	0.0047	0.0094	µmol/dry g	0.0009	0	97	70 - 130%	PASS	3	30	PASS	
Zinc (Zn) - SEM	NA	0.0154	0.0015	0.003	µmol/dry g	0.0153	0	101	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	0.384	0.0018	0.0036	µmol/dry g	0.372	0	103	70 - 130%	PASS			
Copper (Cu) - SEM	NA	0.865	0.0062	0.0124	µmol/dry g	0.658	0.152	108	70 - 130%	PASS			
Lead (Pb) - SEM	NA	0.223	0.0002	0.0004	µmol/dry g	0.202	0.0309	95	70 - 130%	PASS			
Nickel (Ni) - SEM	NA	0.727	0.0033	0.0066	µmol/dry g	0.713	0.00751	101	70 - 130%	PASS			
Silver (Ag) - SEM	NA	0.0396	0.0047	0.0094	µmol/dry g	0.0388	0	102	70 - 130%	PASS			
Zinc (Zn) - SEM	NA	1.22	0.0015	0.003	µmol/dry g	0.64	0.577	100	70 - 130%	PASS			
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	0.384	0.0018	0.0036	µmol/dry g	0.372	0	103	70 - 130%	PASS	0	30	PASS
Copper (Cu) - SEM	NA	0.856	0.0062	0.0124	µmol/dry g	0.658	0.152	107	70 - 130%	PASS	1	30	PASS
Lead (Pb) - SEM	NA	0.222	0.0002	0.0004	µmol/dry g	0.202	0.0309	95	70 - 130%	PASS	0	30	PASS
Nickel (Ni) - SEM	NA	0.725	0.0033	0.0066	µmol/dry g	0.713	0.00751	101	70 - 130%	PASS	0	30	PASS
Silver (Ag) - SEM	NA	0.0381	0.0047	0.0094	µmol/dry g	0.0388	0	98	70 - 130%	PASS	4	30	PASS
Zinc (Zn) - SEM	NA	1.21	0.0015	0.003	µmol/dry g	0.64	0.577	99	70 - 130%	PASS	1	30	PASS
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**			
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	30	PASS
Copper (Cu) - SEM	NA	0.154	0.0062	0.0124	µmol/dry g						2	30	PASS
Lead (Pb) - SEM	NA	0.0307	0.0002	0.0004	µmol/dry g						1	30	PASS
Nickel (Ni) - SEM	NA	0.00745	0.0033	0.0066	µmol/dry g						2	30	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	30	PASS
Zinc (Zn) - SEM	NA	0.564	0.0015	0.003	µmol/dry g						4	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	536	0.25	0.5	ng/dry g	500	0	107	60 - 140% PASS				
Fipronil Desulfinyl	NA	514	0.25	0.5	ng/dry g	500	0	103	60 - 140% PASS				
Fipronil Sulfide	NA	538	0.25	0.5	ng/dry g	500	0	108	60 - 140% PASS				
Fipronil Sulfone	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS				
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 19-Jan-19			
Fipronil	NA	519	0.25	0.5	ng/dry g	500	0	104	60 - 140% PASS		3	30 PASS	
Fipronil Desulfinyl	NA	563	0.25	0.5	ng/dry g	500	0	113	60 - 140% PASS		9	30 PASS	
Fipronil Sulfide	NA	508	0.25	0.5	ng/dry g	500	0	102	60 - 140% PASS		6	30 PASS	
Fipronil Sulfone	NA	409	0.25	0.5	ng/dry g	500	0	82	60 - 140% PASS		1	30 PASS	
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 22-Jan-19			
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 22-Jan-19			
Fipronil	NA	454	0.25	0.5	ng/dry g	500	0	91	60 - 140% PASS				
Fipronil Desulfinyl	NA	487	0.25	0.5	ng/dry g	500	0	97	60 - 140% PASS				
Fipronil Sulfide	NA	482	0.25	0.5	ng/dry g	500	0	96	60 - 140% PASS				
Fipronil Sulfone	NA	353	0.25	0.5	ng/dry g	500	0	71	60 - 140% PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Fipronil	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	13	30 PASS	
Fipronil Desulfinyl	NA	434	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	11	30 PASS	
Fipronil Sulfide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS	10	30 PASS	
Fipronil Sulfone	NA	429	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	19	30 PASS	
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18 9:00**				**Received: 31-Jul-18**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Fipronil	NA	95.3	0.25	0.5	ng/dry g	90.8	0	105	60 - 140%	PASS			
Fipronil Desulfinyl	NA	108	0.25	0.5	ng/dry g	90.8	0	119	60 - 140%	PASS			
Fipronil Sulfide	NA	97.6	0.25	0.5	ng/dry g	90.8	0	107	60 - 140%	PASS			
Fipronil Sulfone	NA	71.1	0.25	0.5	ng/dry g	90.8	0	78	60 - 140%	PASS			
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18 9:00**				**Received: 31-Jul-18**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Fipronil	NA	86.4	0.25	0.5	ng/dry g	91.3	0	95	60 - 140%	PASS	10	30 PASS	
Fipronil Desulfinyl	NA	107	0.25	0.5	ng/dry g	91.3	0	117	60 - 140%	PASS	2	30 PASS	
Fipronil Sulfide	NA	92.8	0.25	0.5	ng/dry g	91.3	0	102	60 - 140%	PASS	5	30 PASS	
Fipronil Sulfone	NA	65.2	0.25	0.5	ng/dry g	91.3	0	71	60 - 140%	PASS	9	30 PASS	
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18 9:00**				**Received: 31-Jul-18**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g						0	30 PASS	
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g						0	30 PASS	
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g						0	30 PASS	
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g						0	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56751-R2	**B18-10039**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**10:00**		**Received: 31-Jul-18**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.5	NA	2.3	0.1	0.1	%					61	20 FAIL	NH
Phi 10.0	NA	2.5	0.1	0.1	%					13	20 PASS	
Phi 10.5	NA	2.4	0.1	0.1	%					4	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	19.4	0.1	0.1	%					5	20 PASS	
Phi 2.5	NA	0.6	0.1	0.1	%					74	20 FAIL	SL
Phi 3.0	NA	0.1	0.1	0.1	%					143	20 FAIL	J,SL
Phi 3.5	NA	1.2	0.1	0.1	%			PASS		22	20 PASS	Q
Phi 4.0	NA	2.6	0.1	0.1	%					17	20 PASS	
Phi 4.5	NA	4.5	0.1	0.1	%					5	20 PASS	
Phi 5.0	NA	6.1	0.1	0.1	%					5	20 PASS	
Phi 5.5	NA	5.1	0.1	0.1	%					8	20 PASS	
Phi 6.0	NA	8.6	0.1	0.1	%					6	20 PASS	
Phi 6.5	NA	6.5	0.1	0.1	%					8	20 PASS	
Phi 7.0	NA	9.7	0.1	0.1	%					6	20 PASS	
Phi 7.5	NA	6	0.1	0.1	%					5	20 PASS	
Phi 8.0	NA	7.7	0.1	0.1	%					7	20 PASS	
Phi 8.5	NA	6.2	0.1	0.1	%					7	20 PASS	
Phi 9.0	NA	5.8	0.1	0.1	%					9	20 PASS	
Phi 9.5	NA	2.9	0.1	0.1	%					11	20 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
PCB003	NA	41.6	0.1	0.2	ng/dry g	50	0	83	60 - 140%	PASS		
PCB005	NA	40.9	0.1	0.2	ng/dry g	50	0	82	60 - 140%	PASS		
PCB008	NA	42.3	0.017	0.2	ng/dry g	50	0	85	60 - 140%	PASS		
PCB015	NA	50.5	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS		
PCB018	NA	47.1	0.029	0.2	ng/dry g	50	0	94	60 - 140%	PASS		
PCB027	NA	46.8	0.1	0.2	ng/dry g	50	0	94	60 - 140%	PASS		
PCB028	NA	48	0.023	0.2	ng/dry g	50	0	96	60 - 140%	PASS		
PCB029	NA	53.7	0.1	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB031	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS		
PCB033	NA	53.3	0.1	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB037	NA	53.3	0.06	0.2	ng/dry g	50	0	107	60 - 140%	PASS		
PCB044	NA	51.7	0.028	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB049	NA	51.7	0.036	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB052	NA	50.1	0.012	0.2	ng/dry g	50	0	100	60 - 140%	PASS		
PCB056(060)	NA	52	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS		
PCB066	NA	55.7	0.027	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB074	NA	55.7	0.021	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB077	NA	58.3	0.018	0.2	ng/dry g	50	0	117	60 - 140%	PASS		
PCB081	NA	58.9	0.084	0.2	ng/dry g	50	0	118	60 - 140%	PASS		
PCB087	NA	55.3	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS		
PCB095	NA	48.5	0.1	0.2	ng/dry g	50	0	97	60 - 140%	PASS		
PCB097	NA	58.6	0.1	0.2	ng/dry g	50	0	117	60 - 140%	PASS		
PCB099	NA	50.6	0.028	0.2	ng/dry g	50	0	101	60 - 140%	PASS		
PCB101	NA	51.2	0.027	0.2	ng/dry g	50	0	102	60 - 140%	PASS		
PCB105	NA	41.9	0.047	0.2	ng/dry g	50	0	84	60 - 140%	PASS		
PCB110	NA	52.3	0.074	0.2	ng/dry g	50	0	105	60 - 140%	PASS		
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS		
PCB118	NA	50.5	0.069	0.2	ng/dry g	50	0	101	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	51.1	0.071	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB123	NA	49.5	0.018	0.2	ng/dry g	50	0	99	60 - 140%	PASS			
PCB126	NA	50.2	0.086	0.2	ng/dry g	50	0	100	60 - 140%	PASS			
PCB128	NA	54	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS			
PCB137	NA	42.4	0.1	0.2	ng/dry g	50	0	85	60 - 140%	PASS			
PCB138	NA	42.9	0.057	0.2	ng/dry g	50	0	86	60 - 140%	PASS			
PCB141	NA	39.8	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS			
PCB149	NA	45.5	0.092	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB151	NA	58.5	0.073	0.2	ng/dry g	50	0	117	60 - 140%	PASS			
PCB153	NA	46.3	0.065	0.2	ng/dry g	50	0	93	60 - 140%	PASS			
PCB156	NA	62.5	0.089	0.2	ng/dry g	50	0	125	60 - 140%	PASS			
PCB157	NA	44.4	0.103	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB158	NA	46.1	0.074	0.2	ng/dry g	50	0	92	60 - 140%	PASS			
PCB167	NA	57.3	0.049	0.2	ng/dry g	50	0	115	60 - 140%	PASS			
PCB168+132	NA	85.6	0.094	0.2	ng/dry g	100	0	86	60 - 140%	PASS			
PCB169	NA	70.9	0.116	0.2	ng/dry g	50	0	142	60 - 140%	FAIL			Q
PCB170	NA	55.4	0.118	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB174	NA	51.2	0.12	0.25	ng/dry g	50	0	102	60 - 140%	PASS			
PCB177	NA	59.4	0.085	0.25	ng/dry g	50	0	119	60 - 140%	PASS			
PCB180	NA	63.8	0.154	0.25	ng/dry g	50	0	128	60 - 140%	PASS			
PCB183	NA	53.3	0.056	0.25	ng/dry g	50	0	107	60 - 140%	PASS			
PCB187	NA	58.8	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	68	0.109	0.25	ng/dry g	50	0	136	60 - 140%	PASS			
PCB194	NA	71.9	0.164	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB195	NA	63.1	0.093	0.25	ng/dry g	50	0	126	60 - 140%	PASS			
PCB199(200)	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB201	NA	41.8	0.104	0.25	ng/dry g	50	0	84	60 - 140%	PASS			
PCB203	NA	57.9	0.12	0.25	ng/dry g	50	0	116	60 - 140%	PASS			
PCB206	NA	72.2	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL			Q
PCB209	NA	65.1	0.12	0.25	ng/dry g	50	0	130	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19					Analyzed: 02-Feb-19		
PCB003	NA	38.4	0.1	0.2	ng/dry g	50	0	77	60 - 140%	PASS	8	30	PASS	
PCB005	NA	40.1	0.1	0.2	ng/dry g	50	0	80	60 - 140%	PASS	2	30	PASS	
PCB008	NA	38.3	0.017	0.2	ng/dry g	50	0	77	60 - 140%	PASS	10	30	PASS	
PCB015	NA	47.8	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS	5	30	PASS	
PCB018	NA	44.7	0.029	0.2	ng/dry g	50	0	89	60 - 140%	PASS	5	30	PASS	
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	4	30	PASS	
PCB028	NA	45.1	0.023	0.2	ng/dry g	50	0	90	60 - 140%	PASS	6	30	PASS	
PCB029	NA	50.7	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS	6	30	PASS	
PCB031	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	5	30	PASS	
PCB033	NA	49.8	0.1	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS	
PCB037	NA	50	0.06	0.2	ng/dry g	50	0	100	60 - 140%	PASS	7	30	PASS	
PCB044	NA	48.1	0.028	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS	
PCB049	NA	47.8	0.036	0.2	ng/dry g	50	0	96	60 - 140%	PASS	7	30	PASS	
PCB052	NA	47.7	0.012	0.2	ng/dry g	50	0	95	60 - 140%	PASS	5	30	PASS	
PCB056(060)	NA	47.7	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS	9	30	PASS	
PCB066	NA	52.2	0.027	0.2	ng/dry g	50	0	104	60 - 140%	PASS	7	30	PASS	
PCB070	NA	55.6	0.023	0.2	ng/dry g	50	0	111	60 - 140%	PASS	0	30	PASS	
PCB074	NA	50.3	0.021	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS	
PCB077	NA	53.8	0.018	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS	
PCB081	NA	55.3	0.084	0.2	ng/dry g	50	0	111	60 - 140%	PASS	6	30	PASS	
PCB087	NA	50.6	0.081	0.2	ng/dry g	50	0	101	60 - 140%	PASS	9	30	PASS	
PCB095	NA	44.8	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS	7	30	PASS	
PCB097	NA	53.9	0.1	0.2	ng/dry g	50	0	108	60 - 140%	PASS	8	30	PASS	
PCB099	NA	47.6	0.028	0.2	ng/dry g	50	0	95	60 - 140%	PASS	6	30	PASS	
PCB101	NA	48.1	0.027	0.2	ng/dry g	50	0	96	60 - 140%	PASS	6	30	PASS	
PCB105	NA	38.6	0.047	0.2	ng/dry g	50	0	77	60 - 140%	PASS	9	30	PASS	
PCB110	NA	48.4	0.074	0.2	ng/dry g	50	0	97	60 - 140%	PASS	8	30	PASS	
PCB114	NA	49.1	0.072	0.2	ng/dry g	50	0	98	60 - 140%	PASS	4	30	PASS	
PCB118	NA	48.6	0.069	0.2	ng/dry g	50	0	97	60 - 140%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	47.7	0.071	0.2	ng/dry g	50	0	95	60 - 140%	PASS	7	30	PASS	
PCB123	NA	46.1	0.018	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS	
PCB126	NA	48.4	0.086	0.2	ng/dry g	50	0	97	60 - 140%	PASS	3	30	PASS	
PCB128	NA	53.6	0.081	0.2	ng/dry g	50	0	107	60 - 140%	PASS	1	30	PASS	
PCB137	NA	40.4	0.1	0.2	ng/dry g	50	0	81	60 - 140%	PASS	5	30	PASS	
PCB138	NA	42.1	0.057	0.2	ng/dry g	50	0	84	60 - 140%	PASS	2	30	PASS	
PCB141	NA	37.7	0.1	0.2	ng/dry g	50	0	75	60 - 140%	PASS	6	30	PASS	
PCB149	NA	42.6	0.092	0.2	ng/dry g	50	0	85	60 - 140%	PASS	7	30	PASS	
PCB151	NA	55	0.073	0.2	ng/dry g	50	0	110	60 - 140%	PASS	6	30	PASS	
PCB153	NA	43.6	0.065	0.2	ng/dry g	50	0	87	60 - 140%	PASS	7	30	PASS	
PCB156	NA	59.5	0.089	0.2	ng/dry g	50	0	119	60 - 140%	PASS	5	30	PASS	
PCB157	NA	45.3	0.103	0.2	ng/dry g	50	0	91	60 - 140%	PASS	2	30	PASS	
PCB158	NA	43.4	0.074	0.2	ng/dry g	50	0	87	60 - 140%	PASS	6	30	PASS	
PCB167	NA	54.1	0.049	0.2	ng/dry g	50	0	108	60 - 140%	PASS	6	30	PASS	
PCB168+132	NA	78.9	0.094	0.2	ng/dry g	100	0	79	60 - 140%	PASS	8	30	PASS	
PCB169	NA	76.1	0.116	0.2	ng/dry g	50	0	152	60 - 140%	FAIL	7	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	2	30	PASS	
PCB174	NA	49.9	0.12	0.25	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PCB177	NA	56.8	0.085	0.25	ng/dry g	50	0	114	60 - 140%	PASS	4	30	PASS	
PCB180	NA	62.8	0.154	0.25	ng/dry g	50	0	126	60 - 140%	PASS	2	30	PASS	
PCB183	NA	49.6	0.056	0.25	ng/dry g	50	0	99	60 - 140%	PASS	8	30	PASS	
PCB187	NA	54.2	0.168	0.25	ng/dry g	50	0	108	60 - 140%	PASS	9	30	PASS	
PCB189	NA	75.6	0.109	0.25	ng/dry g	50	0	151	60 - 140%	FAIL	10	30	PASS	Q
PCB194	NA	74.3	0.164	0.25	ng/dry g	50	0	149	60 - 140%	FAIL	3	30	PASS	
PCB195	NA	65.9	0.093	0.25	ng/dry g	50	0	132	60 - 140%	PASS	5	30	PASS	
PCB199(200)	NA	56.1	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	2	30	PASS	
PCB201	NA	40.7	0.104	0.25	ng/dry g	50	0	81	60 - 140%	PASS	4	30	PASS	
PCB203	NA	58.3	0.12	0.25	ng/dry g	50	0	117	60 - 140%	PASS	1	30	PASS	
PCB206	NA	72	0.155	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	0	30	PASS	Q
PCB209	NA	66.3	0.12	0.25	ng/dry g	50	0	133	60 - 140%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20910-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19	
PCB008	NA	27.2	0.017	0.2	ng/dry g	22.3		122	60 - 140% PASS			
PCB018	NA	47.7	0.029	0.2	ng/dry g	51		94	60 - 140% PASS			
PCB028	NA	78.1	0.023	0.2	ng/dry g	80.8		97	60 - 140% PASS			
PCB044	NA	43.3	0.028	0.2	ng/dry g	60.2		72	60 - 140% PASS			
PCB049	NA	43.2	0.036	0.2	ng/dry g	53		82	60 - 140% PASS			
PCB052	NA	65.8	0.012	0.2	ng/dry g	79.4		83	60 - 140% PASS			
PCB066	NA	54.9	0.027	0.2	ng/dry g	71.9		76	60 - 140% PASS			
PCB087	NA	19.6	0.081	0.2	ng/dry g	29.9		66	60 - 140% PASS			
PCB099	NA	23.2	0.028	0.2	ng/dry g	37.5		62	60 - 140% PASS			
PCB101	NA	52.1	0.027	0.2	ng/dry g	73.4		71	60 - 140% PASS			
PCB105	NA	8.7	0.047	0.2	ng/dry g	24.5		36	60 - 140% FAIL			1
PCB110	NA	46.8	0.074	0.2	ng/dry g	63.5		74	60 - 140% PASS			
PCB118	NA	34.9	0.069	0.2	ng/dry g	58		60	60 - 140% PASS			
PCB128	NA	3.05	0.081	0.2	ng/dry g	8.5		36	60 - 140% FAIL			1
PCB138	NA	52.3	0.057	0.2	ng/dry g	62.1		84	60 - 140% PASS			
PCB149	NA	36.4	0.092	0.2	ng/dry g	49.7		73	60 - 140% PASS			
PCB151	NA	14.7	0.073	0.2	ng/dry g	16.9		87	60 - 140% PASS			
PCB153	NA	55.9	0.065	0.2	ng/dry g	74		76	60 - 140% PASS			
PCB156	NA	2.53	0.089	0.2	ng/dry g	6.5		39	60 - 140% FAIL			1
PCB174	NA	16.1	0.12	0.25	ng/dry g	16		101	60 - 140% PASS			
PCB180	NA	38.5	0.154	0.25	ng/dry g	44.3		87	60 - 140% PASS			
PCB183	NA	10.7	0.056	0.25	ng/dry g	12.2		88	60 - 140% PASS			
PCB187	NA	25.3	0.168	0.25	ng/dry g	25.1		101	60 - 140% PASS			
PCB194	NA	9.72	0.164	0.25	ng/dry g	11.2		87	60 - 140% PASS			
PCB195	NA	3.32	0.093	0.25	ng/dry g	3.8		87	60 - 140% PASS			
PCB206	NA	6.98	0.155	0.25	ng/dry g	9.2		76	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
PCB003	NA	29.9	0.1	0.2	ng/dry g	50	0	60	60 - 140%	PASS		
PCB005	NA	33.7	0.1	0.2	ng/dry g	50	0	67	60 - 140%	PASS		
PCB008	NA	36.8	0.017	0.2	ng/dry g	50	0	74	60 - 140%	PASS		
PCB015	NA	47.3	0.1	0.2	ng/dry g	50	0	95	60 - 140%	PASS		
PCB018	NA	42.9	0.029	0.2	ng/dry g	50	0	86	60 - 140%	PASS		
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140%	PASS		
PCB028	NA	46.8	0.023	0.2	ng/dry g	50	0	94	60 - 140%	PASS		
PCB029	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB031	NA	51.5	0.1	0.2	ng/dry g	50	0	103	60 - 140%	PASS		
PCB033	NA	52.3	0.1	0.2	ng/dry g	50	0	105	60 - 140%	PASS		
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140%	PASS		
PCB044	NA	49.5	0.028	0.2	ng/dry g	50	0	99	60 - 140%	PASS		
PCB049	NA	49.7	0.036	0.2	ng/dry g	50	0	99	60 - 140%	PASS		
PCB052	NA	48.4	0.012	0.2	ng/dry g	50	0	97	60 - 140%	PASS		
PCB056(060)	NA	50.3	0.1	0.2	ng/dry g	50	0	101	60 - 140%	PASS		
PCB066	NA	54.8	0.027	0.2	ng/dry g	50	0	110	60 - 140%	PASS		
PCB070	NA	57.6	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS		
PCB074	NA	54.5	0.021	0.2	ng/dry g	50	0	109	60 - 140%	PASS		
PCB077	NA	58.9	0.018	0.2	ng/dry g	50	0	118	60 - 140%	PASS		
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140%	PASS		
PCB087	NA	53.9	0.081	0.2	ng/dry g	50	0	108	60 - 140%	PASS		
PCB095	NA	48.2	0.1	0.2	ng/dry g	50	0	96	60 - 140%	PASS		
PCB097	NA	57.1	0.1	0.2	ng/dry g	50	0	114	60 - 140%	PASS		
PCB099	NA	49.2	0.028	0.2	ng/dry g	50	0	98	60 - 140%	PASS		
PCB101	NA	50	0.027	0.2	ng/dry g	50	0	100	60 - 140%	PASS		
PCB105	NA	44.5	0.047	0.2	ng/dry g	50	0	89	60 - 140%	PASS		
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140%	PASS		
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140%	PASS		
PCB118	NA	51.3	0.069	0.2	ng/dry g	50	0	103	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.7	0.071	0.2	ng/dry g	50	0	101	60 - 140%	PASS			
PCB123	NA	48.6	0.018	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB126	NA	53.1	0.086	0.2	ng/dry g	50	0	106	60 - 140%	PASS			
PCB128	NA	55.5	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB137	NA	45.7	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	47.2	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB141	NA	43.9	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS			
PCB149	NA	44.7	0.092	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB151	NA	59.6	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS			
PCB153	NA	51.2	0.065	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB156	NA	65.6	0.089	0.2	ng/dry g	50	0	131	60 - 140%	PASS			
PCB157	NA	48.8	0.103	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB158	NA	47.6	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB167	NA	55.9	0.049	0.2	ng/dry g	50	0	112	60 - 140%	PASS			
PCB168+132	NA	88.4	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS			
PCB169	NA	76.4	0.116	0.2	ng/dry g	50	0	153	60 - 140%	FAIL			Q
PCB170	NA	58.8	0.118	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB174	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB177	NA	60.5	0.085	0.25	ng/dry g	50	0	121	60 - 140%	PASS			
PCB180	NA	67.4	0.154	0.25	ng/dry g	50	0	135	60 - 140%	PASS			
PCB183	NA	55.7	0.056	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB187	NA	59.1	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	73	0.109	0.25	ng/dry g	50	0	146	60 - 140%	FAIL			Q
PCB194	NA	82.7	0.164	0.25	ng/dry g	50	0	165	60 - 140%	FAIL			
PCB195	NA	66.3	0.093	0.25	ng/dry g	50	0	133	60 - 140%	PASS			
PCB199(200)	NA	57.5	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	61	0.12	0.25	ng/dry g	50	0	122	60 - 140%	PASS			
PCB206	NA	79.1	0.155	0.25	ng/dry g	50	0	158	60 - 140%	FAIL			
PCB209	NA	67.3	0.12	0.25	ng/dry g	50	0	135	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
PCB003	NA	34.8	0.1	0.2	ng/dry g	50	0	70	60 - 140%	PASS	15	30	PASS
PCB005	NA	38.2	0.1	0.2	ng/dry g	50	0	76	60 - 140%	PASS	13	30	PASS
PCB008	NA	39.2	0.017	0.2	ng/dry g	50	0	78	60 - 140%	PASS	5	30	PASS
PCB015	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%	PASS	3	30	PASS
PCB018	NA	46.1	0.029	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	3	30	PASS
PCB028	NA	47	0.023	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS
PCB029	NA	52.9	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS
PCB031	NA	52.2	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140%	PASS	0	30	PASS
PCB044	NA	51.1	0.028	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30	PASS
PCB049	NA	50.5	0.036	0.2	ng/dry g	50	0	101	60 - 140%	PASS	2	30	PASS
PCB052	NA	51.7	0.012	0.2	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	3	30	PASS
PCB066	NA	54.9	0.027	0.2	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS
PCB070	NA	57.5	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	0	30	PASS
PCB074	NA	54.6	0.021	0.2	ng/dry g	50	0	109	60 - 140%	PASS	0	30	PASS
PCB077	NA	60.3	0.018	0.2	ng/dry g	50	0	121	60 - 140%	PASS	3	30	PASS
PCB081	NA	60.2	0.084	0.2	ng/dry g	50	0	120	60 - 140%	PASS	4	30	PASS
PCB087	NA	57.2	0.081	0.2	ng/dry g	50	0	114	60 - 140%	PASS	5	30	PASS
PCB095	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS
PCB097	NA	59.8	0.1	0.2	ng/dry g	50	0	120	60 - 140%	PASS	5	30	PASS
PCB099	NA	49.9	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS
PCB101	NA	51.5	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS
PCB105	NA	43.7	0.047	0.2	ng/dry g	50	0	87	60 - 140%	PASS	2	30	PASS
PCB110	NA	53.7	0.074	0.2	ng/dry g	50	0	107	60 - 140%	PASS	2	30	PASS
PCB114	NA	53.1	0.072	0.2	ng/dry g	50	0	106	60 - 140%	PASS	4	30	PASS
PCB118	NA	51.9	0.069	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.3	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	3	30	PASS	
PCB126	NA	54.6	0.086	0.2	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS	
PCB128	NA	54.7	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	2	30	PASS	
PCB137	NA	46.2	0.1	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS	
PCB138	NA	46.9	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB141	NA	44	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.2	0.092	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB151	NA	62	0.073	0.2	ng/dry g	50	0	124	60 - 140%	PASS	4	30	PASS	
PCB153	NA	49.3	0.065	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB156	NA	64.5	0.089	0.2	ng/dry g	50	0	129	60 - 140%	PASS	2	30	PASS	
PCB157	NA	48	0.103	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB158	NA	47.7	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB167	NA	57.2	0.049	0.2	ng/dry g	50	0	114	60 - 140%	PASS	2	30	PASS	
PCB168+132	NA	87.7	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS	0	30	PASS	
PCB169	NA	73.8	0.116	0.2	ng/dry g	50	0	148	60 - 140%	FAIL	3	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB174	NA	53.6	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB177	NA	59.9	0.085	0.25	ng/dry g	50	0	120	60 - 140%	PASS	1	30	PASS	
PCB180	NA	65.5	0.154	0.25	ng/dry g	50	0	131	60 - 140%	PASS	3	30	PASS	
PCB183	NA	55.8	0.056	0.25	ng/dry g	50	0	112	60 - 140%	PASS	1	30	PASS	
PCB187	NA	59.5	0.168	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB189	NA	72.2	0.109	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	1	30	PASS	Q
PCB194	NA	80.3	0.164	0.25	ng/dry g	50	0	161	60 - 140%	FAIL	2	30	PASS	
PCB195	NA	67.1	0.093	0.25	ng/dry g	50	0	134	60 - 140%	PASS	1	30	PASS	
PCB199(200)	NA	56	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS	
PCB201	NA	43.1	0.104	0.25	ng/dry g	50	0	86	60 - 140%	PASS	3	30	PASS	
PCB203	NA	56.7	0.12	0.25	ng/dry g	50	0	113	60 - 140%	PASS	8	30	PASS	
PCB206	NA	73.5	0.155	0.25	ng/dry g	50	0	147	60 - 140%	FAIL	7	30	PASS	
PCB209	NA	62.5	0.12	0.25	ng/dry g	50	0	125	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56744-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**					**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 05-Feb-19	
PCB008	NA	29.1	0.017	0.2	ng/dry g	22.3	130	60 - 140%	PASS				
PCB018	NA	56.6	0.029	0.2	ng/dry g	51	111	60 - 140%	PASS				
PCB028	NA	88.9	0.023	0.2	ng/dry g	80.8	110	60 - 140%	PASS				
PCB044	NA	44.6	0.028	0.2	ng/dry g	60.2	74	60 - 140%	PASS				
PCB049	NA	41.1	0.036	0.2	ng/dry g	53	78	60 - 140%	PASS				
PCB052	NA	71.1	0.012	0.2	ng/dry g	79.4	90	60 - 140%	PASS				
PCB066	NA	52.8	0.027	0.2	ng/dry g	71.9	73	60 - 140%	PASS				
PCB087	NA	20.7	0.081	0.2	ng/dry g	29.9	69	60 - 140%	PASS				
PCB099	NA	22.9	0.028	0.2	ng/dry g	37.5	61	60 - 140%	PASS				
PCB101	NA	53.2	0.027	0.2	ng/dry g	73.4	72	60 - 140%	PASS				
PCB105	NA	10.1	0.047	0.2	ng/dry g	24.5	41	60 - 140%	FAIL				1
PCB110	NA	45.3	0.074	0.2	ng/dry g	63.5	71	60 - 140%	PASS				
PCB118	NA	30.9	0.069	0.2	ng/dry g	58	53	60 - 140%	FAIL				1
PCB128	NA	4.65	0.081	0.2	ng/dry g	8.5	55	60 - 140%	FAIL				1
PCB138	NA	48.5	0.057	0.2	ng/dry g	62.1	78	60 - 140%	PASS				
PCB149	NA	34.7	0.092	0.2	ng/dry g	49.7	70	60 - 140%	PASS				
PCB151	NA	14.1	0.073	0.2	ng/dry g	16.9	83	60 - 140%	PASS				
PCB153	NA	54.7	0.065	0.2	ng/dry g	74	74	60 - 140%	PASS				
PCB156	NA	2.65	0.089	0.2	ng/dry g	6.5	41	60 - 140%	FAIL				1
PCB174	NA	16.4	0.12	0.25	ng/dry g	16	102	60 - 140%	PASS				
PCB180	NA	33.1	0.154	0.25	ng/dry g	44.3	75	60 - 140%	PASS				
PCB183	NA	10.4	0.056	0.25	ng/dry g	12.2	85	60 - 140%	PASS				
PCB187	NA	24	0.168	0.25	ng/dry g	25.1	96	60 - 140%	PASS				
PCB194	NA	11.1	0.164	0.25	ng/dry g	11.2	99	60 - 140%	PASS				
PCB195	NA	3.4	0.093	0.25	ng/dry g	3.8	89	60 - 140%	PASS				
PCB206	NA	6.35	0.155	0.25	ng/dry g	9.2	69	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**			**Received: 31-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB003	NA	7.79	0.1	0.2	ng/dry g	9.08	0	86	60 - 140%		PASS	
PCB005	NA	7.25	0.1	0.2	ng/dry g	9.08	0	80	60 - 140%		PASS	
PCB008	NA	7.84	0.017	0.2	ng/dry g	9.08	0	86	60 - 140%		PASS	
PCB015	NA	9	0.1	0.2	ng/dry g	9.08	0	99	60 - 140%		PASS	
PCB018	NA	8.82	0.029	0.2	ng/dry g	9.08	0	97	60 - 140%		PASS	
PCB027	NA	9.03	0.1	0.2	ng/dry g	9.08	0	99	60 - 140%		PASS	
PCB028	NA	9.55	0.023	0.2	ng/dry g	9.08	0	105	60 - 140%		PASS	
PCB029	NA	10.5	0.1	0.2	ng/dry g	9.08	0	116	60 - 140%		PASS	
PCB031	NA	10.4	0.1	0.2	ng/dry g	9.08	0	115	60 - 140%		PASS	
PCB033	NA	10.7	0.1	0.2	ng/dry g	9.08	0	118	60 - 140%		PASS	
PCB037	NA	10.5	0.06	0.2	ng/dry g	9.08	0	116	60 - 140%		PASS	
PCB044	NA	10.2	0.028	0.2	ng/dry g	9.08	0	112	60 - 140%		PASS	
PCB049	NA	10.7	0.036	0.2	ng/dry g	9.08	0	118	60 - 140%		PASS	
PCB052	NA	9.8	0.012	0.2	ng/dry g	9.08	0	108	60 - 140%		PASS	
PCB056(060)	NA	9.62	0.1	0.2	ng/dry g	9.08	0	106	60 - 140%		PASS	
PCB066	NA	11.1	0.027	0.2	ng/dry g	9.08	0	122	60 - 140%		PASS	
PCB070	NA	11	0.023	0.2	ng/dry g	9.08	0	121	60 - 140%		PASS	
PCB074	NA	10.8	0.021	0.2	ng/dry g	9.08	0	119	60 - 140%		PASS	
PCB077	NA	11.1	0.018	0.2	ng/dry g	9.08	0	122	60 - 140%		PASS	
PCB081	NA	11.2	0.084	0.2	ng/dry g	9.08	0	123	60 - 140%		PASS	
PCB087	NA	10.7	0.081	0.2	ng/dry g	9.08	0	118	60 - 140%		PASS	
PCB095	NA	9.61	0.1	0.2	ng/dry g	9.08	0.229	103	60 - 140%		PASS	
PCB097	NA	11.6	0.1	0.2	ng/dry g	9.08	0	128	60 - 140%		PASS	
PCB099	NA	9.54	0.028	0.2	ng/dry g	9.08	0.212	103	60 - 140%		PASS	
PCB101	NA	10.2	0.027	0.2	ng/dry g	9.08	0.313	109	60 - 140%		PASS	
PCB105	NA	8.19	0.047	0.2	ng/dry g	9.08	0	90	60 - 140%		PASS	
PCB110	NA	9.99	0.074	0.2	ng/dry g	9.08	0.163	108	60 - 140%		PASS	
PCB114	NA	9.94	0.072	0.2	ng/dry g	9.08	0	109	60 - 140%		PASS	
PCB118	NA	10.6	0.069	0.2	ng/dry g	9.08	0.203	115	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	9.91	0.071	0.2	ng/dry g	9.08	0	109	60 - 140%	PASS			
PCB123	NA	9.79	0.018	0.2	ng/dry g	9.08	0	108	60 - 140%	PASS			
PCB126	NA	10.4	0.086	0.2	ng/dry g	9.08	0	115	60 - 140%	PASS			
PCB128	NA	10.8	0.081	0.2	ng/dry g	9.08	0	119	60 - 140%	PASS			
PCB137	NA	8.54	0.1	0.2	ng/dry g	9.08	0	94	60 - 140%	PASS			
PCB138	NA	9.76	0.057	0.2	ng/dry g	9.08	0.588	101	60 - 140%	PASS			
PCB141	NA	8.15	0.1	0.2	ng/dry g	9.08	0	90	60 - 140%	PASS			
PCB149	NA	9.23	0.092	0.2	ng/dry g	9.08	0.373	98	60 - 140%	PASS			
PCB151	NA	12	0.073	0.2	ng/dry g	9.08	0	132	60 - 140%	PASS			
PCB153	NA	9.91	0.065	0.2	ng/dry g	9.08	0.632	102	60 - 140%	PASS			
PCB156	NA	11.7	0.089	0.2	ng/dry g	9.08	0	129	60 - 140%	PASS			
PCB157	NA	7.69	0.103	0.2	ng/dry g	9.08	0	85	60 - 140%	PASS			
PCB158	NA	9.12	0.074	0.2	ng/dry g	9.08	0.226	98	60 - 140%	PASS			
PCB167	NA	10.1	0.049	0.2	ng/dry g	9.08	0	111	60 - 140%	PASS			
PCB168+132	NA	16.5	0.094	0.2	ng/dry g	18.2	0.122	90	60 - 140%	PASS			
PCB169	NA	12	0.116	0.2	ng/dry g	9.08	0	132	60 - 140%	PASS			
PCB170	NA	10.1	0.118	0.25	ng/dry g	9.08	0	111	60 - 140%	PASS			
PCB174	NA	9.67	0.12	0.25	ng/dry g	9.08	0	106	60 - 140%	PASS			
PCB177	NA	10.5	0.085	0.25	ng/dry g	9.08	0.135	114	60 - 140%	PASS			
PCB180	NA	11.4	0.154	0.25	ng/dry g	9.08	0.377	121	60 - 140%	PASS			
PCB183	NA	10.5	0.056	0.25	ng/dry g	9.08	0.0753	115	60 - 140%	PASS			
PCB187	NA	10.6	0.168	0.25	ng/dry g	9.08	0.296	113	60 - 140%	PASS			
PCB189	NA	11.8	0.109	0.25	ng/dry g	9.08	0	130	60 - 140%	PASS			
PCB194	NA	11.7	0.164	0.25	ng/dry g	9.08	0	129	60 - 140%	PASS			
PCB195	NA	12.2	0.093	0.25	ng/dry g	9.08	0	134	60 - 140%	PASS			
PCB199(200)	NA	9.17	0.12	0.25	ng/dry g	9.08	0	101	60 - 140%	PASS			
PCB201	NA	7.58	0.104	0.25	ng/dry g	9.08	0	83	60 - 140%	PASS			
PCB203	NA	10.1	0.12	0.25	ng/dry g	9.08	0	111	60 - 140%	PASS			
PCB206	NA	11.4	0.155	0.25	ng/dry g	9.08	0.242	123	60 - 140%	PASS			
PCB209	NA	9.29	0.12	0.25	ng/dry g	9.08	0.199	100	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**			**Received: 31-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 06-Feb-19			
PCB003	NA	7.97	0.1	0.2	ng/dry g	9.13	0	87	60 - 140%	PASS	1	30	PASS
PCB005	NA	7.58	0.1	0.2	ng/dry g	9.13	0	83	60 - 140%	PASS	4	30	PASS
PCB008	NA	7.89	0.017	0.2	ng/dry g	9.13	0	86	60 - 140%	PASS	0	30	PASS
PCB015	NA	9.48	0.1	0.2	ng/dry g	9.13	0	104	60 - 140%	PASS	5	30	PASS
PCB018	NA	8.75	0.029	0.2	ng/dry g	9.13	0	96	60 - 140%	PASS	1	30	PASS
PCB027	NA	8.89	0.1	0.2	ng/dry g	9.13	0	97	60 - 140%	PASS	2	30	PASS
PCB028	NA	9.52	0.023	0.2	ng/dry g	9.13	0	104	60 - 140%	PASS	1	30	PASS
PCB029	NA	10.8	0.1	0.2	ng/dry g	9.13	0	118	60 - 140%	PASS	2	30	PASS
PCB031	NA	10.6	0.1	0.2	ng/dry g	9.13	0	116	60 - 140%	PASS	1	30	PASS
PCB033	NA	10.9	0.1	0.2	ng/dry g	9.13	0	119	60 - 140%	PASS	1	30	PASS
PCB037	NA	10.5	0.06	0.2	ng/dry g	9.13	0	115	60 - 140%	PASS	1	30	PASS
PCB044	NA	9.98	0.028	0.2	ng/dry g	9.13	0	109	60 - 140%	PASS	3	30	PASS
PCB049	NA	10.9	0.036	0.2	ng/dry g	9.13	0	119	60 - 140%	PASS	1	30	PASS
PCB052	NA	10.1	0.012	0.2	ng/dry g	9.13	0	111	60 - 140%	PASS	3	30	PASS
PCB056(060)	NA	9.64	0.1	0.2	ng/dry g	9.13	0	106	60 - 140%	PASS	0	30	PASS
PCB066	NA	11.3	0.027	0.2	ng/dry g	9.13	0	124	60 - 140%	PASS	2	30	PASS
PCB070	NA	11.4	0.023	0.2	ng/dry g	9.13	0	125	60 - 140%	PASS	3	30	PASS
PCB074	NA	10.3	0.021	0.2	ng/dry g	9.13	0	113	60 - 140%	PASS	5	30	PASS
PCB077	NA	11.7	0.018	0.2	ng/dry g	9.13	0	128	60 - 140%	PASS	5	30	PASS
PCB081	NA	12.2	0.084	0.2	ng/dry g	9.13	0	134	60 - 140%	PASS	9	30	PASS
PCB087	NA	11.2	0.081	0.2	ng/dry g	9.13	0	123	60 - 140%	PASS	4	30	PASS
PCB095	NA	9.78	0.1	0.2	ng/dry g	9.13	0.229	105	60 - 140%	PASS	2	30	PASS
PCB097	NA	11.9	0.1	0.2	ng/dry g	9.13	0	130	60 - 140%	PASS	2	30	PASS
PCB099	NA	10.5	0.028	0.2	ng/dry g	9.13	0.212	113	60 - 140%	PASS	9	30	PASS
PCB101	NA	10.2	0.027	0.2	ng/dry g	9.13	0.313	108	60 - 140%	PASS	1	30	PASS
PCB105	NA	8.42	0.047	0.2	ng/dry g	9.13	0	92	60 - 140%	PASS	2	30	PASS
PCB110	NA	10.5	0.074	0.2	ng/dry g	9.13	0.163	113	60 - 140%	PASS	5	30	PASS
PCB114	NA	10.6	0.072	0.2	ng/dry g	9.13	0	116	60 - 140%	PASS	6	30	PASS
PCB118	NA	10.6	0.069	0.2	ng/dry g	9.13	0.203	114	60 - 140%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	10.3	0.071	0.2	ng/dry g	9.13	0	113	60 - 140%	PASS	4	30	PASS	
PCB123	NA	9.7	0.018	0.2	ng/dry g	9.13	0	106	60 - 140%	PASS	2	30	PASS	
PCB126	NA	10.9	0.086	0.2	ng/dry g	9.13	0	119	60 - 140%	PASS	3	30	PASS	
PCB128	NA	11.5	0.081	0.2	ng/dry g	9.13	0	126	60 - 140%	PASS	6	30	PASS	
PCB137	NA	9.3	0.1	0.2	ng/dry g	9.13	0	102	60 - 140%	PASS	8	30	PASS	
PCB138	NA	9.9	0.057	0.2	ng/dry g	9.13	0.588	102	60 - 140%	PASS	1	30	PASS	
PCB141	NA	8.41	0.1	0.2	ng/dry g	9.13	0	92	60 - 140%	PASS	2	30	PASS	
PCB149	NA	9.58	0.092	0.2	ng/dry g	9.13	0.373	101	60 - 140%	PASS	3	30	PASS	
PCB151	NA	12.6	0.073	0.2	ng/dry g	9.13	0	138	60 - 140%	PASS	4	30	PASS	
PCB153	NA	9.73	0.065	0.2	ng/dry g	9.13	0.632	100	60 - 140%	PASS	2	30	PASS	
PCB156	NA	12.4	0.089	0.2	ng/dry g	9.13	0	136	60 - 140%	PASS	5	30	PASS	
PCB157	NA	8.16	0.103	0.2	ng/dry g	9.13	0	89	60 - 140%	PASS	5	30	PASS	
PCB158	NA	9.19	0.074	0.2	ng/dry g	9.13	0.226	98	60 - 140%	PASS	0	30	PASS	
PCB167	NA	10.6	0.049	0.2	ng/dry g	9.13	0	116	60 - 140%	PASS	4	30	PASS	
PCB168+132	NA	16.8	0.094	0.2	ng/dry g	18.3	0.122	91	60 - 140%	PASS	1	30	PASS	
PCB169	NA	11.6	0.116	0.2	ng/dry g	9.13	0	127	60 - 140%	PASS	4	30	PASS	
PCB170	NA	11.1	0.118	0.25	ng/dry g	9.13	0	122	60 - 140%	PASS	9	30	PASS	
PCB174	NA	10.2	0.12	0.25	ng/dry g	9.13	0	112	60 - 140%	PASS	6	30	PASS	
PCB177	NA	11.3	0.085	0.25	ng/dry g	9.13	0.135	122	60 - 140%	PASS	7	30	PASS	
PCB180	NA	12	0.154	0.25	ng/dry g	9.13	0.377	127	60 - 140%	PASS	5	30	PASS	
PCB183	NA	10.8	0.056	0.25	ng/dry g	9.13	0.0753	117	60 - 140%	PASS	2	30	PASS	
PCB187	NA	11.2	0.168	0.25	ng/dry g	9.13	0.296	119	60 - 140%	PASS	5	30	PASS	
PCB189	NA	13.4	0.109	0.25	ng/dry g	9.13	0	147	60 - 140%	FAIL	12	30	PASS	Q
PCB194	NA	13	0.164	0.25	ng/dry g	9.13	0	142	60 - 140%	FAIL	10	30	PASS	Q
PCB195	NA	12.5	0.093	0.25	ng/dry g	9.13	0	137	60 - 140%	PASS	2	30	PASS	
PCB199(200)	NA	9.97	0.12	0.25	ng/dry g	9.13	0	109	60 - 140%	PASS	8	30	PASS	
PCB201	NA	8.06	0.104	0.25	ng/dry g	9.13	0	88	60 - 140%	PASS	6	30	PASS	
PCB203	NA	10.9	0.12	0.25	ng/dry g	9.13	0	119	60 - 140%	PASS	7	30	PASS	
PCB206	NA	12.2	0.155	0.25	ng/dry g	9.13	0.242	131	60 - 140%	PASS	6	30	PASS	
PCB209	NA	10.3	0.12	0.25	ng/dry g	9.13	0.199	111	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**			**Received: 31-Jul-18**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 06-Feb-19		
PCB003	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB005	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB008	NA	ND	0.017	0.2	ng/dry g					0	30 PASS	
PCB015	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB018	NA	ND	0.029	0.2	ng/dry g					0	30 PASS	
PCB027	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB028	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB029	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB031	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB033	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB037	NA	ND	0.06	0.2	ng/dry g					0	30 PASS	
PCB044	NA	ND	0.028	0.2	ng/dry g					0	30 PASS	
PCB049	NA	ND	0.036	0.2	ng/dry g					0	30 PASS	
PCB052	NA	ND	0.012	0.2	ng/dry g					0	30 PASS	
PCB056(060)	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB066	NA	ND	0.027	0.2	ng/dry g					0	30 PASS	
PCB070	NA	ND	0.023	0.2	ng/dry g					0	30 PASS	
PCB074	NA	ND	0.021	0.2	ng/dry g					0	30 PASS	
PCB077	NA	ND	0.018	0.2	ng/dry g					0	30 PASS	
PCB081	NA	ND	0.084	0.2	ng/dry g					0	30 PASS	
PCB087	NA	ND	0.081	0.2	ng/dry g					0	30 PASS	
PCB095	NA	0.21	0.1	0.2	ng/dry g					16	30 PASS	
PCB097	NA	ND	0.1	0.2	ng/dry g					0	30 PASS	
PCB099	NA	0.182	0.028	0.2	ng/dry g					28	30 PASS	J
PCB101	NA	0.297	0.027	0.2	ng/dry g					10	30 PASS	
PCB105	NA	ND	0.047	0.2	ng/dry g					0	30 PASS	
PCB110	NA	0.16	0.074	0.2	ng/dry g					3	30 PASS	J
PCB114	NA	ND	0.072	0.2	ng/dry g					0	30 PASS	
PCB118	NA	0.168	0.069	0.2	ng/dry g					35	30 FAIL	J,SL

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g					0	30	PASS	
PCB123	NA	ND	0.018	0.2	ng/dry g					0	30	PASS	
PCB126	NA	ND	0.086	0.2	ng/dry g					0	30	PASS	
PCB128	NA	ND	0.081	0.2	ng/dry g					0	30	PASS	
PCB137	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB138	NA	0.499	0.057	0.2	ng/dry g					30	30	FAIL	
PCB141	NA	ND	0.1	0.2	ng/dry g					0	30	PASS	
PCB149	NA	0.349	0.092	0.2	ng/dry g					13	30	PASS	
PCB151	NA	ND	0.073	0.2	ng/dry g					0	30	PASS	
PCB153	NA	0.683	0.065	0.2	ng/dry g					16	30	PASS	
PCB156	NA	ND	0.089	0.2	ng/dry g					0	30	PASS	
PCB157	NA	ND	0.103	0.2	ng/dry g					0	30	PASS	
PCB158	NA	0.194	0.074	0.2	ng/dry g					29	30	PASS	J
PCB167	NA	ND	0.049	0.2	ng/dry g					0	30	PASS	
PCB168+132	NA	0.113	0.094	0.2	ng/dry g					16	30	PASS	J
PCB169	NA	ND	0.116	0.2	ng/dry g					0	30	PASS	
PCB170	NA	ND	0.118	0.25	ng/dry g					0	30	PASS	
PCB174	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB177	NA	0.116	0.085	0.25	ng/dry g					29	30	PASS	J
PCB180	NA	0.393	0.154	0.25	ng/dry g					8	30	PASS	
PCB183	NA	0.0831	0.056	0.25	ng/dry g					21	30	PASS	J
PCB187	NA	0.269	0.168	0.25	ng/dry g					18	30	PASS	
PCB189	NA	ND	0.109	0.25	ng/dry g					0	30	PASS	
PCB194	NA	ND	0.164	0.25	ng/dry g					0	30	PASS	
PCB195	NA	ND	0.093	0.25	ng/dry g					0	30	PASS	
PCB199(200)	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB201	NA	ND	0.104	0.25	ng/dry g					0	30	PASS	
PCB203	NA	ND	0.12	0.25	ng/dry g					0	30	PASS	
PCB206	NA	0.277	0.155	0.25	ng/dry g					28	30	PASS	J
PCB209	NA	0.211	0.12	0.25	ng/dry g					13	30	PASS	J

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	98			% Recovery	100	98	63 - 146%	PASS			
(FTBDE)	NA	93			% Recovery	100	93	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 21-Jan-19	
(DFPBDE)	NA	123			% Recovery	100	0	123	63 - 146%	PASS		
(FTBDE)	NA	83			% Recovery	100	0	83	53 - 138%	PASS		
PBDE017	NA	49.1	0.05	0.1	ng/dry g	50	0	98	60 - 140%	PASS		
PBDE028	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS		
PBDE047	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS		
PBDE049	NA	53.4	0.05	0.1	ng/dry g	50	0	107	60 - 140%	PASS		
PBDE066	NA	49.4	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS		
PBDE085	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE099	NA	46.6	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS		
PBDE100	NA	48.6	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE138	NA	44.1	0.05	0.1	ng/dry g	50	0	88	60 - 140%	PASS		
PBDE153	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS		
PBDE154	NA	47.6	0.05	0.1	ng/dry g	50	0	95	60 - 140%	PASS		
PBDE183	NA	42.9	0.05	0.1	ng/dry g	50	0	86	60 - 140%	PASS		
PBDE190	NA	33.4	0.05	0.1	ng/dry g	50	0	67	60 - 140%	PASS		
PBDE209	NA	55.3	0.05	0.1	ng/dry g	250	0	22	60 - 140%	FAIL		Q

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 21-Jan-19		
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	4	30	PASS	
(FTBDE)	NA	80			% Recovery	100	0	80	53 - 138%	PASS	4	30	PASS	
PBDE017	NA	45	0.05	0.1	ng/dry g	50	0	90	60 - 140%	PASS	9	30	PASS	
PBDE028	NA	50.2	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PBDE047	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PBDE049	NA	47.8	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	11	30	PASS	
PBDE066	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	5	30	PASS	
PBDE085	NA	46.8	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	6	30	PASS	
PBDE099	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS	1	30	PASS	
PBDE100	NA	46.5	0.05	0.1	ng/dry g	50	0	93	60 - 140%	PASS	4	30	PASS	
PBDE138	NA	39.6	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	11	30	PASS	
PBDE153	NA	41.4	0.05	0.1	ng/dry g	50	0	83	60 - 140%	PASS	8	30	PASS	
PBDE154	NA	41	0.05	0.1	ng/dry g	50	0	82	60 - 140%	PASS	15	30	PASS	
PBDE183	NA	39.7	0.05	0.1	ng/dry g	50	0	79	60 - 140%	PASS	8	30	PASS	
PBDE190	NA	30.5	0.05	0.1	ng/dry g	50	0	61	60 - 140%	PASS	9	30	PASS	
PBDE209	NA	41.9	0.05	0.1	ng/dry g	250	0	17	60 - 140%	FAIL	26	30	PASS	Q
Sample ID: 20910-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21012			Prepared: 08-Jan-19				Analyzed: 21-Jan-19		
(DFPBDE)	NA	90			% Recovery	100		90	60 - 140%	PASS				
(FTBDE)	NA	121			% Recovery	100		121	60 - 140%	PASS				
PBDE047	NA	1.52	0.05	0.1	ng/dry g	1.72		88	60 - 140%	PASS				
PBDE099	NA	1.75	0.05	0.1	ng/dry g	2		88	60 - 140%	PASS				
PBDE100	NA	0.309	0.05	0.1	ng/dry g	0.4		77	60 - 140%	PASS				
PBDE153	NA	4.31	0.05	0.1	ng/dry g	6.44		67	60 - 140%	PASS				
PBDE154	NA	1.04	0.05	0.1	ng/dry g	1.06		98	60 - 140%	PASS				
PBDE183	NA	19.3	0.05	0.1	ng/dry g	31.8		61	60 - 140%	PASS				
PBDE209	NA	63.4	0.05	0.1	ng/dry g	93.5		68	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	103			% Recovery	100	103	63 - 146%	PASS			
(FTBDE)	NA	100			% Recovery	100	100	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS		
(FTBDE)	NA	97			% Recovery	100	0	97	53 - 138%	PASS		
PBDE017	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE028	NA	54.7	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS		
PBDE047	NA	52.9	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE066	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE085	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS		
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE100	NA	51.7	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE138	NA	44.2	0.05	0.1	ng/dry g	50	0	88	60 - 140%	PASS		
PBDE153	NA	48.7	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE154	NA	47.1	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS		
PBDE190	NA	44.5	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS		
PBDE209	NA	238	0.05	0.1	ng/dry g	250	0	95	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19			Analyzed: 23-Jan-19		
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	0	30	PASS
(FTBDE)	NA	103			% Recovery	100	0	103	53 - 138%	PASS	6	30	PASS
PBDE017	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	6	30	PASS
PBDE028	NA	55.9	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS
PBDE047	NA	54.6	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS
PBDE049	NA	58.9	0.05	0.1	ng/dry g	50	0	118	60 - 140%	PASS	23	30	PASS
PBDE066	NA	55.1	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	4	30	PASS
PBDE085	NA	51.6	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS	1	30	PASS
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	0	30	PASS
PBDE100	NA	52.2	0.05	0.1	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS
PBDE138	NA	44.3	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS	1	30	PASS
PBDE153	NA	50.5	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30	PASS
PBDE154	NA	51	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS	8	30	PASS
PBDE183	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS	8	30	PASS
PBDE190	NA	47.9	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	8	30	PASS
PBDE209	NA	253	0.05	0.1	ng/dry g	250	0	101	60 - 140%	PASS	6	30	PASS
Sample ID: 56744-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19			Analyzed: 23-Jan-19		
(DFPBDE)	NA	116			% Recovery	100		116	60 - 140%	PASS			
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS			
PBDE047	NA	2.08	0.05	0.1	ng/dry g	1.72		121	60 - 140%	PASS			
PBDE099	NA	2.61	0.05	0.1	ng/dry g	2		130	60 - 140%	PASS			
PBDE100	NA	0.425	0.05	0.1	ng/dry g	0.4		106	60 - 140%	PASS			
PBDE153	NA	4.6	0.05	0.1	ng/dry g	6.44		71	60 - 140%	PASS			
PBDE154	NA	1.47	0.05	0.1	ng/dry g	1.06		139	60 - 140%	PASS			
PBDE183	NA	19.7	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS			
PBDE209	NA	58.4	0.05	0.1	ng/dry g	93.5		62	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 23-Jan-19		
(DFPBDE)	NA	129			% Recovery	100	0	129	27 - 129%	PASS		
(FTBDE)	NA	115			% Recovery	100	0	115	54 - 136%	PASS		
PBDE017	NA	11.4	0.05	0.1	ng/dry g	9.08	0	126	60 - 140%	PASS		
PBDE028	NA	11.3	0.05	0.1	ng/dry g	9.08	0	124	60 - 140%	PASS		
PBDE047	NA	9.13	0.05	0.1	ng/dry g	9.08	0	101	60 - 140%	PASS		
PBDE049	NA	9.57	0.05	0.1	ng/dry g	9.08	0	105	60 - 140%	PASS		
PBDE066	NA	10.2	0.05	0.1	ng/dry g	9.08	0	112	60 - 140%	PASS		
PBDE085	NA	8.37	0.05	0.1	ng/dry g	9.08	0	92	60 - 140%	PASS		
PBDE099	NA	8.51	0.05	0.1	ng/dry g	9.08	0	94	60 - 140%	PASS		
PBDE100	NA	8.51	0.05	0.1	ng/dry g	9.08	0	94	60 - 140%	PASS		
PBDE138	NA	6.14	0.05	0.1	ng/dry g	9.08	0	68	60 - 140%	PASS		
PBDE153	NA	6.89	0.05	0.1	ng/dry g	9.08	0	76	60 - 140%	PASS		
PBDE154	NA	7.91	0.05	0.1	ng/dry g	9.08	0	87	60 - 140%	PASS		
PBDE183	NA	6.11	0.05	0.1	ng/dry g	9.08	0	67	60 - 140%	PASS		
PBDE190	NA	4.9	0.05	0.1	ng/dry g	9.08	0	54	60 - 140%	FAIL		M
PBDE209	NA	12.6	0.05	0.1	ng/dry g	45.4	0	28	60 - 140%	FAIL		M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**			**Sampled: 30-Jul-18**	**9:00**			**Received: 31-Jul-18**		
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 23-Jan-19		
(DFPBDE)	NA	114			% Recovery	100	0	114	27 - 129%	PASS	12	30	PASS	
(FTBDE)	NA	115			% Recovery	100	0	115	54 - 136%	PASS	0	30	PASS	
PBDE017	NA	10.7	0.05	0.1	ng/dry g	9.13	0	117	60 - 140%	PASS	7	30	PASS	
PBDE028	NA	10.9	0.05	0.1	ng/dry g	9.13	0	119	60 - 140%	PASS	4	30	PASS	
PBDE047	NA	9.59	0.05	0.1	ng/dry g	9.13	0	105	60 - 140%	PASS	4	30	PASS	
PBDE049	NA	9.88	0.05	0.1	ng/dry g	9.13	0	108	60 - 140%	PASS	3	30	PASS	
PBDE066	NA	9.8	0.05	0.1	ng/dry g	9.13	0	107	60 - 140%	PASS	5	30	PASS	
PBDE085	NA	7.99	0.05	0.1	ng/dry g	9.13	0	88	60 - 140%	PASS	4	30	PASS	
PBDE099	NA	8.81	0.05	0.1	ng/dry g	9.13	0	96	60 - 140%	PASS	2	30	PASS	
PBDE100	NA	8.57	0.05	0.1	ng/dry g	9.13	0	94	60 - 140%	PASS	0	30	PASS	
PBDE138	NA	6.81	0.05	0.1	ng/dry g	9.13	0	75	60 - 140%	PASS	10	30	PASS	
PBDE153	NA	7.41	0.05	0.1	ng/dry g	9.13	0	81	60 - 140%	PASS	6	30	PASS	
PBDE154	NA	7.39	0.05	0.1	ng/dry g	9.13	0	81	60 - 140%	PASS	7	30	PASS	
PBDE183	NA	6.34	0.05	0.1	ng/dry g	9.13	0	69	60 - 140%	PASS	3	30	PASS	
PBDE190	NA	5.5	0.05	0.1	ng/dry g	9.13	0	60	60 - 140%	PASS	11	30	PASS	
PBDE209	NA	14.3	0.05	0.1	ng/dry g	45.6	0	31	60 - 140%	FAIL	10	30	PASS	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**			
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 24-Jan-19			
(DFPBDE)	NA	88			% Recovery	100	88	27 - 129%	PASS	10	30	PASS	
(FTBDE)	NA	98			% Recovery	100	98	54 - 136%	PASS	10	30	PASS	
PBDE017	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE028	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE047	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE049	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE066	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE085	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE099	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE100	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE138	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE153	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE154	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE183	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE190	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	
PBDE209	NA	ND	0.05	0.1	ng/dry g					0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	66	0	0	% Recovery	100	66	50 - 112%	PASS			
(d10-Phenanthrene)	NA	102	0	0	% Recovery	100	102	59 - 121%	PASS			
(d12-Chrysene)	NA	144	0	0	% Recovery	100	144	52 - 144%	PASS			
(d12-Perylene)	NA	92	0	0	% Recovery	100	92	50 - 150%	PASS			
(d8-Naphthalene)	NA	43	0	0	% Recovery	100	43	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 02-Feb-19		
(d10-Acenaphthene)	NA	82	0	0	% Recovery	100	0	82	50 - 112% PASS			
(d10-Phenanthrene)	NA	105	0	0	% Recovery	100	0	105	59 - 121% PASS			
(d12-Chrysene)	NA	144	0	0	% Recovery	100	0	144	52 - 144% PASS			
(d12-Perylene)	NA	94	0	0	% Recovery	100	0	94	50 - 150% PASS			
(d8-Naphthalene)	NA	59	0	0	% Recovery	100	0	59	31 - 106% PASS			
1,6,7-Trimethylnapthalene	NA	400	0.059	0.5	ng/dry g	500	0	80	60 - 140% PASS			
1-Methylnaphthalene	NA	297	0.084	0.5	ng/dry g	500	0	59	60 - 140% FAIL			Q
1-Methylphenanthrene	NA	626	0.076	0.5	ng/dry g	500	0	125	60 - 140% PASS			
2,6-Dimethylnaphthalene	NA	348	0.065	0.5	ng/dry g	500	0	70	60 - 140% PASS			
2-Methylnaphthalene	NA	314	0.106	0.5	ng/dry g	500	0	63	60 - 140% PASS			
Acenaphthene	NA	336	0.078	0.5	ng/dry g	500	0	67	60 - 140% PASS			
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140% PASS			
Anthracene	NA	411	0.046	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benz[a]anthracene	NA	982	0.107	0.5	ng/dry g	500	0	196	60 - 140% FAIL			
Benzo[a]pyrene	NA	432	0.106	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Benzo[b]fluoranthene	NA	733	0.063	0.5	ng/dry g	500	0	147	60 - 140% FAIL			Q
Benzo[e]pyrene	NA	519	0.098	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Benzo[g,h,i]perylene	NA	410	0.093	0.5	ng/dry g	500	0	82	60 - 140% PASS			
Benzo[k]fluoranthene	NA	588	0.111	0.5	ng/dry g	500	0	118	60 - 140% PASS			
Biphenyl	NA	320	0.092	0.5	ng/dry g	500	0	64	60 - 140% PASS			
Chrysene	NA	518	0.067	0.5	ng/dry g	500	0	104	60 - 140% PASS			
Dibenz[a,h]anthracene	NA	711	0.106	0.5	ng/dry g	500	0	142	60 - 140% FAIL			Q
Dibenzothiophene	NA	460	0.2	0.5	ng/dry g	500	0	92	60 - 140% PASS			
Fluoranthene	NA	655	0.035	0.5	ng/dry g	500	0	131	60 - 140% PASS			
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140% PASS			
Indeno[1,2,3-cd]pyrene	NA	780	0.087	0.5	ng/dry g	500	0	156	60 - 140% FAIL			
Naphthalene	NA	256	0.187	0.5	ng/dry g	500	0	51	60 - 140% FAIL			Q
Perylene	NA	414	0.114	0.5	ng/dry g	500	0	83	60 - 140% PASS			
Phenanthrene	NA	420	0.074	0.5	ng/dry g	500	0	84	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	638	0.048	0.5	ng/dry g	500	0	128	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19			
(d10-Acenaphthene)	NA	81	0	0	% Recovery	100	0	81	50 - 112%	PASS	1	30	PASS	
(d10-Phenanthrene)	NA	104	0	0	% Recovery	100	0	104	59 - 121%	PASS	1	30	PASS	
(d12-Chrysene)	NA	149	0	0	% Recovery	100	0	149	52 - 144%	FAIL	3	30	PASS	
(d12-Perylene)	NA	90	0	0	% Recovery	100	0	90	50 - 150%	PASS	4	30	PASS	
(d8-Naphthalene)	NA	56	0	0	% Recovery	100	0	56	31 - 106%	PASS	5	30	PASS	
1,6,7-Trimethylnapthalene	NA	402	0.059	0.5	ng/dry g	500	0	80	60 - 140%	PASS	0	30	PASS	
1-Methylnaphthalene	NA	286	0.084	0.5	ng/dry g	500	0	57	60 - 140%	FAIL	3	30	PASS	Q
1-Methylphenanthrene	NA	635	0.076	0.5	ng/dry g	500	0	127	60 - 140%	PASS	2	30	PASS	
2,6-Dimethylnaphthalene	NA	342	0.065	0.5	ng/dry g	500	0	68	60 - 140%	PASS	3	30	PASS	
2-Methylnaphthalene	NA	301	0.106	0.5	ng/dry g	500	0	60	60 - 140%	PASS	5	30	PASS	
Acenaphthene	NA	332	0.078	0.5	ng/dry g	500	0	66	60 - 140%	PASS	2	30	PASS	
Acenaphthylene	NA	370	0.058	0.5	ng/dry g	500	0	74	60 - 140%	PASS	0	30	PASS	
Anthracene	NA	404	0.046	0.5	ng/dry g	500	0	81	60 - 140%	PASS	1	30	PASS	
Benz[a]anthracene	NA	999	0.107	0.5	ng/dry g	500	0	200	60 - 140%	FAIL	2	30	PASS	
Benzo[a]pyrene	NA	420	0.106	0.5	ng/dry g	500	0	84	60 - 140%	PASS	2	30	PASS	
Benzo[b]fluoranthene	NA	740	0.063	0.5	ng/dry g	500	0	148	60 - 140%	FAIL	1	30	PASS	Q
Benzo[e]pyrene	NA	528	0.098	0.5	ng/dry g	500	0	106	60 - 140%	PASS	2	30	PASS	
Benzo[g,h,i]perylene	NA	409	0.093	0.5	ng/dry g	500	0	82	60 - 140%	PASS	0	30	PASS	
Benzo[k]fluoranthene	NA	582	0.111	0.5	ng/dry g	500	0	116	60 - 140%	PASS	2	30	PASS	
Biphenyl	NA	311	0.092	0.5	ng/dry g	500	0	62	60 - 140%	PASS	3	30	PASS	
Chrysene	NA	541	0.067	0.5	ng/dry g	500	0	108	60 - 140%	PASS	4	30	PASS	
Dibenz[a,h]anthracene	NA	734	0.106	0.5	ng/dry g	500	0	147	60 - 140%	FAIL	3	30	PASS	Q
Dibenzothiophene	NA	454	0.2	0.5	ng/dry g	500	0	91	60 - 140%	PASS	1	30	PASS	
Fluoranthene	NA	652	0.035	0.5	ng/dry g	500	0	130	60 - 140%	PASS	1	30	PASS	
Fluorene	NA	384	0.068	0.5	ng/dry g	500	0	77	60 - 140%	PASS	0	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	816	0.087	0.5	ng/dry g	500	0	163	60 - 140%	FAIL	4	30	PASS	
Naphthalene	NA	243	0.187	0.5	ng/dry g	500	0	49	60 - 140%	FAIL	4	30	PASS	Q
Perylene	NA	420	0.114	0.5	ng/dry g	500	0	84	60 - 140%	PASS	1	30	PASS	
Phenanthrene	NA	417	0.074	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	636	0.048	0.5	ng/dry g	500	0	127	60 - 140%	PASS	1	30	PASS	
Sample ID: 20910-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 02-Feb-19			
(d10-Acenaphthene)	NA	93	0	0	% Recovery	100		93	44 - 144%	PASS				
(d10-Phenanthrene)	NA	106	0	0	% Recovery	100		106	60 - 134%	PASS				
(d12-Chrysene)	NA	74	0	0	% Recovery	100		74	27 - 158%	PASS				
(d12-Perylene)	NA	80	0	0	% Recovery	100		80	17 - 160%	PASS				
(d8-Naphthalene)	NA	58	0	0	% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.454	0.106	0.5	ug/dry g	740		61	60 - 140%	PASS				
Benz[a]anthracene	NA	2.87	0.107	0.5	ug/dry g	4720		61	60 - 140%	PASS				
Benzo[a]pyrene	NA	3.04	0.106	0.5	ug/dry g	4.3		71	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	2.55	0.063	0.5	ug/dry g	3.87		66	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.87	0.098	0.5	ug/dry g	3.28		118	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.79	0.093	0.5	ug/dry g	2.84		98	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4.39		41	60 - 140%	FAIL				1
Chrysene	NA	3.85	0.067	0.5	ug/dry g	4.86		79	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	1.07	0.106	0.5	ug/dry g	0.924		116	60 - 140%	PASS				
Fluoranthene	NA	6.5	0.035	0.5	ug/dry g	8.92		73	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2.78		90	60 - 140%	PASS				
Perylene	NA	0.739	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	3.47	0.074	0.5	ug/dry g	5.27		66	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9.7		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	75	0	0	% Recovery	100	75	50 - 112%	PASS			
(d10-Phenanthrene)	NA	75	0	0	% Recovery	100	75	59 - 121%	PASS			
(d12-Chrysene)	NA	97	0	0	% Recovery	100	97	52 - 144%	PASS			
(d12-Perylene)	NA	90	0	0	% Recovery	100	90	50 - 150%	PASS			
(d8-Naphthalene)	NA	86	0	0	% Recovery	100	86	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	76	0	0	% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	77	0	0	% Recovery	100	77	59 - 121%	PASS			
(d12-Chrysene)	NA	81	0	0	% Recovery	100	81	52 - 144%	PASS			
(d12-Perylene)	NA	75	0	0	% Recovery	100	75	50 - 150%	PASS			
(d8-Naphthalene)	NA	87	0	0	% Recovery	100	87	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	400	0.059	0.5	ng/dry g	500	80	60 - 140%	PASS			
1-Methylnaphthalene	NA	369	0.084	0.5	ng/dry g	500	74	60 - 140%	PASS			
1-Methylphenanthrene	NA	431	0.076	0.5	ng/dry g	500	86	60 - 140%	PASS			
2,6-Dimethylnaphthalene	NA	387	0.065	0.5	ng/dry g	500	77	60 - 140%	PASS			
2-Methylnaphthalene	NA	380	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS			
Acenaphthene	NA	387	0.078	0.5	ng/dry g	500	77	60 - 140%	PASS			
Acenaphthylene	NA	385	0.058	0.5	ng/dry g	500	77	60 - 140%	PASS			
Anthracene	NA	334	0.046	0.5	ng/dry g	500	67	60 - 140%	PASS			
Benz[a]anthracene	NA	383	0.107	0.5	ng/dry g	500	77	60 - 140%	PASS			
Benzo[a]pyrene	NA	378	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS			
Benzo[b]fluoranthene	NA	388	0.063	0.5	ng/dry g	500	78	60 - 140%	PASS			
Benzo[e]pyrene	NA	393	0.098	0.5	ng/dry g	500	79	60 - 140%	PASS			
Benzo[g,h,i]perylene	NA	394	0.093	0.5	ng/dry g	500	79	60 - 140%	PASS			
Benzo[k]fluoranthene	NA	398	0.111	0.5	ng/dry g	500	80	60 - 140%	PASS			
Biphenyl	NA	380	0.092	0.5	ng/dry g	500	76	60 - 140%	PASS			
Chrysene	NA	409	0.067	0.5	ng/dry g	500	82	60 - 140%	PASS			
Dibenz[a,h]anthracene	NA	389	0.106	0.5	ng/dry g	500	78	60 - 140%	PASS			
Dibenzothiophene	NA	399	0.2	0.5	ng/dry g	500	80	60 - 140%	PASS			
Fluoranthene	NA	435	0.035	0.5	ng/dry g	500	87	60 - 140%	PASS			
Fluorene	NA	406	0.068	0.5	ng/dry g	500	81	60 - 140%	PASS			
Indeno[1,2,3-cd]pyrene	NA	379	0.087	0.5	ng/dry g	500	76	60 - 140%	PASS			
Naphthalene	NA	361	0.187	0.5	ng/dry g	500	72	60 - 140%	PASS			
Perylene	NA	386	0.114	0.5	ng/dry g	500	77	60 - 140%	PASS			
Phenanthrene	NA	429	0.074	0.5	ng/dry g	500	86	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	438	0.048	0.5	ng/dry g	500		88	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19					Analyzed: 19-Mar-19		
(d10-Acenaphthene)	NA	86	0	0	% Recovery	100	86	50 - 112%	PASS		12	30	PASS	
(d10-Phenanthrene)	NA	79	0	0	% Recovery	100	79	59 - 121%	PASS		3	30	PASS	
(d12-Chrysene)	NA	83	0	0	% Recovery	100	83	52 - 144%	PASS		2	30	PASS	
(d12-Perylene)	NA	76	0	0	% Recovery	100	76	50 - 150%	PASS		1	30	PASS	
(d8-Naphthalene)	NA	109	0	0	% Recovery	100	109	31 - 106%	FAIL		22	30	PASS	
1,6,7-Trimethylnapthalene	NA	431	0.059	0.5	ng/dry g	500	86	60 - 140%	PASS		7	30	PASS	
1-Methylnaphthalene	NA	440	0.084	0.5	ng/dry g	500	88	60 - 140%	PASS		17	30	PASS	
1-Methylphenanthrene	NA	435	0.076	0.5	ng/dry g	500	87	60 - 140%	PASS		1	30	PASS	
2,6-Dimethylnaphthalene	NA	445	0.065	0.5	ng/dry g	500	89	60 - 140%	PASS		14	30	PASS	
2-Methylnaphthalene	NA	447	0.106	0.5	ng/dry g	500	89	60 - 140%	PASS		16	30	PASS	
Acenaphthene	NA	431	0.078	0.5	ng/dry g	500	86	60 - 140%	PASS		11	30	PASS	
Acenaphthylene	NA	428	0.058	0.5	ng/dry g	500	86	60 - 140%	PASS		11	30	PASS	
Anthracene	NA	364	0.046	0.5	ng/dry g	500	73	60 - 140%	PASS		9	30	PASS	
Benz[a]anthracene	NA	387	0.107	0.5	ng/dry g	500	77	60 - 140%	PASS		0	30	PASS	
Benzo[a]pyrene	NA	373	0.106	0.5	ng/dry g	500	75	60 - 140%	PASS		1	30	PASS	
Benzo[b]fluoranthene	NA	381	0.063	0.5	ng/dry g	500	76	60 - 140%	PASS		3	30	PASS	
Benzo[e]pyrene	NA	378	0.098	0.5	ng/dry g	500	76	60 - 140%	PASS		4	30	PASS	
Benzo[g,h,i]perylene	NA	387	0.093	0.5	ng/dry g	500	77	60 - 140%	PASS		3	30	PASS	
Benzo[k]fluoranthene	NA	363	0.111	0.5	ng/dry g	500	73	60 - 140%	PASS		8	30	PASS	
Biphenyl	NA	433	0.092	0.5	ng/dry g	500	87	60 - 140%	PASS		13	30	PASS	
Chrysene	NA	404	0.067	0.5	ng/dry g	500	81	60 - 140%	PASS		1	30	PASS	
Dibenz[a,h]anthracene	NA	378	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS		3	30	PASS	
Dibenzothiophene	NA	404	0.2	0.5	ng/dry g	500	81	60 - 140%	PASS		1	30	PASS	
Fluoranthene	NA	390	0.035	0.5	ng/dry g	500	78	60 - 140%	PASS		11	30	PASS	
Fluorene	NA	428	0.068	0.5	ng/dry g	500	86	60 - 140%	PASS		6	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	370	0.087	0.5	ng/dry g	500	74	60 - 140%	PASS		3	30	PASS	
Naphthalene	NA	448	0.187	0.5	ng/dry g	500	90	60 - 140%	PASS		22	30	PASS	
Perylene	NA	380	0.114	0.5	ng/dry g	500	76	60 - 140%	PASS		1	30	PASS	
Phenanthrene	NA	424	0.074	0.5	ng/dry g	500	85	60 - 140%	PASS		1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	385	0.048	0.5	ng/dry g	500		77	60 - 140%	PASS	13	30	PASS	
Sample ID: 56744-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21040			Prepared: 13-Mar-19			Analyzed: 19-Mar-19			
(d10-Acenaphthene)	NA	119	0	0	% Recovery	100		119	44 - 144%	PASS				
(d10-Phenanthrene)	NA	85	0	0	% Recovery	100		85	60 - 134%	PASS				
(d12-Chrysene)	NA	115	0	0	% Recovery	100		115	27 - 158%	PASS				
(d12-Perylene)	NA	93	0	0	% Recovery	100		93	17 - 160%	PASS				
(d8-Naphthalene)	NA	58	0	0	% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.806	0.106	0.5	ug/dry g	0.74		109	60 - 140%	PASS				
Benz[a]anthracene	NA	4.29	0.107	0.5	ug/dry g	4.72		91	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.99	0.106	0.5	ug/dry g	4.3		70	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	3.37	0.063	0.5	ug/dry g	3.87		87	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.1	0.098	0.5	ug/dry g	3.28		95	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.55	0.093	0.5	ug/dry g	2.84		90	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4.39		41	60 - 140%	FAIL				1
Chrysene	NA	5.95	0.067	0.5	ug/dry g	4.86		122	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.751	0.106	0.5	ug/dry g	0.924		81	60 - 140%	PASS				
Fluoranthene	NA	6.09	0.035	0.5	ug/dry g	8.92		68	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2.78		90	60 - 140%	PASS				
Perylene	NA	0.74	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	4.54	0.074	0.5	ug/dry g	5.27		86	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9.7		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	76	0	0	% Recovery	1000		76	44 - 144%		PASS	
(d10-Phenanthrene)	NA	76	0	0	% Recovery	1000		76	60 - 134%		PASS	
(d12-Chrysene)	NA	88	0	0	% Recovery	1000		88	27 - 158%		PASS	
(d12-Perylene)	NA	80	0	0	% Recovery	1000		80	17 - 160%		PASS	
(d8-Naphthalene)	NA	94	0	0	% Recovery	1000		94	19 - 130%		PASS	
1,6,7-Trimethylnapthalene	NA	376	0.059	0.5	ng/dry g	500		75	60 - 140%		PASS	
1-Methylnaphthalene	NA	436	0.084	0.5	ng/dry g	500		87	60 - 140%		PASS	
1-Methylphenanthrene	NA	381	0.076	0.5	ng/dry g	500		76	60 - 140%		PASS	
2,6-Dimethylnaphthalene	NA	394	0.065	0.5	ng/dry g	500		79	60 - 140%		PASS	
2-Methylnaphthalene	NA	467	0.106	0.5	ng/dry g	500		93	60 - 140%		PASS	
Acenaphthene	NA	364	0.078	0.5	ng/dry g	500		73	60 - 140%		PASS	
Acenaphthylene	NA	368	0.058	0.5	ng/dry g	500		74	60 - 140%		PASS	
Anthracene	NA	378	0.046	0.5	ng/dry g	500		76	60 - 140%		PASS	
Benz[a]anthracene	NA	480	0.107	0.5	ng/dry g	500		96	60 - 140%		PASS	
Benzo[a]pyrene	NA	517	0.106	0.5	ng/dry g	500		103	60 - 140%		PASS	
Benzo[b]fluoranthene	NA	538	0.063	0.5	ng/dry g	500		108	60 - 140%		PASS	
Benzo[e]pyrene	NA	493	0.098	0.5	ng/dry g	500		99	60 - 140%		PASS	
Benzo[g,h,i]perylene	NA	539	0.093	0.5	ng/dry g	500		108	60 - 140%		PASS	
Benzo[k]fluoranthene	NA	507	0.111	0.5	ng/dry g	500		101	60 - 140%		PASS	
Biphenyl	NA	358	0.092	0.5	ng/dry g	500		72	60 - 140%		PASS	
Chrysene	NA	533	0.067	0.5	ng/dry g	500		107	60 - 140%		PASS	
Dibenz[a,h]anthracene	NA	416	0.106	0.5	ng/dry g	500		83	60 - 140%		PASS	
Dibenzothiophene	NA	363	0.2	0.5	ng/dry g	500		73	60 - 140%		PASS	
Fluoranthene	NA	451	0.035	0.5	ng/dry g	500		90	60 - 140%		PASS	
Fluorene	NA	377	0.068	0.5	ng/dry g	500		75	60 - 140%		PASS	
Indeno[1,2,3-cd]pyrene	NA	511	0.087	0.5	ng/dry g	500		102	60 - 140%		PASS	
Naphthalene	NA	399	0.187	0.5	ng/dry g	500		80	60 - 140%		PASS	
Perylene	NA	407	0.114	0.5	ng/dry g	500		81	60 - 140%		PASS	
Phenanthrene	NA	431	0.074	0.5	ng/dry g	500		86	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	463	0.048	0.5	ng/dry g	500		93	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19					Analyzed: 19-Mar-19		
(d10-Acenaphthene)	NA	76	0	0	% Recovery	1000	76	44 - 144%	PASS	0	30	PASS		
(d10-Phenanthrene)	NA	78	0	0	% Recovery	1000	78	60 - 134%	PASS	3	30	PASS		
(d12-Chrysene)	NA	84	0	0	% Recovery	1000	84	27 - 158%	PASS	5	30	PASS		
(d12-Perylene)	NA	80	0	0	% Recovery	1000	80	17 - 160%	PASS	0	30	PASS		
(d8-Naphthalene)	NA	87	0	0	% Recovery	1000	87	19 - 130%	PASS	8	30	PASS		
1,6,7-Trimethylnapthalene	NA	380	0.059	0.5	ng/dry g	500	76	60 - 140%	PASS	1	30	PASS		
1-Methylnaphthalene	NA	352	0.084	0.5	ng/dry g	500	70	60 - 140%	PASS	22	30	PASS		
1-Methylphenanthrene	NA	394	0.076	0.5	ng/dry g	500	79	60 - 140%	PASS	4	30	PASS		
2,6-Dimethylnaphthalene	NA	355	0.065	0.5	ng/dry g	500	71	60 - 140%	PASS	11	30	PASS		
2-Methylnaphthalene	NA	354	0.106	0.5	ng/dry g	500	71	60 - 140%	PASS	27	30	PASS		
Acenaphthene	NA	368	0.078	0.5	ng/dry g	500	74	60 - 140%	PASS	1	30	PASS		
Acenaphthylene	NA	371	0.058	0.5	ng/dry g	500	74	60 - 140%	PASS	0	30	PASS		
Anthracene	NA	403	0.046	0.5	ng/dry g	500	81	60 - 140%	PASS	6	30	PASS		
Benz[a]anthracene	NA	488	0.107	0.5	ng/dry g	500	98	60 - 140%	PASS	2	30	PASS		
Benzo[a]pyrene	NA	546	0.106	0.5	ng/dry g	500	109	60 - 140%	PASS	6	30	PASS		
Benzo[b]fluoranthene	NA	562	0.063	0.5	ng/dry g	500	112	60 - 140%	PASS	4	30	PASS		
Benzo[e]pyrene	NA	521	0.098	0.5	ng/dry g	500	104	60 - 140%	PASS	5	30	PASS		
Benzo[g,h,i]perylene	NA	568	0.093	0.5	ng/dry g	500	114	60 - 140%	PASS	5	30	PASS		
Benzo[k]fluoranthene	NA	531	0.111	0.5	ng/dry g	500	106	60 - 140%	PASS	5	30	PASS		
Biphenyl	NA	353	0.092	0.5	ng/dry g	500	71	60 - 140%	PASS	1	30	PASS		
Chrysene	NA	526	0.067	0.5	ng/dry g	500	105	60 - 140%	PASS	2	30	PASS		
Dibenz[a,h]anthracene	NA	431	0.106	0.5	ng/dry g	500	86	60 - 140%	PASS	4	30	PASS		
Dibenzothiophene	NA	380	0.2	0.5	ng/dry g	500	76	60 - 140%	PASS	4	30	PASS		
Fluoranthene	NA	471	0.035	0.5	ng/dry g	500	94	60 - 140%	PASS	4	30	PASS		
Fluorene	NA	389	0.068	0.5	ng/dry g	500	78	60 - 140%	PASS	4	30	PASS		
Indeno[1,2,3-cd]pyrene	NA	540	0.087	0.5	ng/dry g	500	108	60 - 140%	PASS	6	30	PASS		
Naphthalene	NA	361	0.187	0.5	ng/dry g	500	72	60 - 140%	PASS	11	30	PASS		
Perylene	NA	440	0.114	0.5	ng/dry g	500	88	60 - 140%	PASS	8	30	PASS		
Phenanthrene	NA	453	0.074	0.5	ng/dry g	500	91	60 - 140%	PASS	6	30	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	503	0.048	0.5	ng/dry g	500		101	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18 9:00**				**Received: 31-Jul-18**			
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19			
(d10-Acenaphthene)	NA	71	0	0	% Recovery	100	71	23 - 117%	PASS		7	30	PASS	
(d10-Phenanthrene)	NA	74	0	0	% Recovery	100	74	24 - 127%	PASS		11	30	PASS	
(d12-Chrysene)	NA	83	0	0	% Recovery	100	83	22 - 148%	PASS		8	30	PASS	
(d12-Perylene)	NA	78	0	0	% Recovery	100	78	50 - 150%	PASS		8	30	PASS	
(d8-Naphthalene)	NA	71	0	0	% Recovery	100	71	8 - 105%	PASS		34	30	FAIL	
1,6,7-Trimethylnapthalene	NA	1.39	0.059	0.5	ng/dry g						30	30	PASS	
1-Methylnaphthalene	NA	0.679	0.084	0.5	ng/dry g						60	30	FAIL	SH,SL
1-Methylphenanthrene	NA	1.31	0.076	0.5	ng/dry g						17	30	PASS	
2,6-Dimethylnaphthalene	NA	0.887	0.065	0.5	ng/dry g						22	30	PASS	
2-Methylnaphthalene	NA	1.4	0.106	0.5	ng/dry g						34	30	FAIL	SH
Acenaphthene	NA	0.273	0.078	0.5	ng/dry g						26	30	PASS	
Acenaphthylene	NA	1.19	0.058	0.5	ng/dry g						3	30	PASS	
Anthracene	NA	1.98	0.046	0.5	ng/dry g						3	30	PASS	
Benz[a]anthracene	NA	6.18	0.107	0.5	ng/dry g						2	30	PASS	
Benzo[a]pyrene	NA	13.8	0.106	0.5	ng/dry g						18	30	PASS	
Benzo[b]fluoranthene	NA	13.8	0.063	0.5	ng/dry g						17	30	PASS	
Benzo[e]pyrene	NA	11.4	0.098	0.5	ng/dry g						11	30	PASS	
Benzo[g,h,i]perylene	NA	14.6	0.093	0.5	ng/dry g						13	30	PASS	
Benzo[k]fluoranthene	NA	13	0.111	0.5	ng/dry g						12	30	PASS	
Biphenyl	NA	0.463	0.092	0.5	ng/dry g						2	30	PASS	
Chrysene	NA	11.2	0.067	0.5	ng/dry g						7	30	PASS	
Dibenz[a,h]anthracene	NA	2.73	0.106	0.5	ng/dry g						29	30	PASS	
Dibenzothiophene	NA	0.607	0.2	0.5	ng/dry g						12	30	PASS	
Fluoranthene	NA	10.6	0.035	0.5	ng/dry g						11	30	PASS	
Fluorene	NA	1	0.068	0.5	ng/dry g						43	30	FAIL	SH
Indeno[1,2,3-cd]pyrene	NA	12.7	0.087	0.5	ng/dry g						17	30	PASS	
Naphthalene	NA	1.78	0.187	0.5	ng/dry g						47	30	FAIL	SH
Perylene	NA	3.44	0.114	0.5	ng/dry g						15	30	PASS	
Phenanthrene	NA	6.19	0.074	0.5	ng/dry g						18	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	13	0.048	0.5	ng/dry g					15	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 25-Jan-19	
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 20907-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19				Analyzed: 26-Jan-19	
Allethrin	NA	623	0.28	0.5	ng/dry g	500	0	125	60 - 140%	PASS		
Bifenthrin	NA	514	0.22	0.5	ng/dry g	500	0	103	60 - 140%	PASS		
Cyfluthrin	NA	554	0.25	0.5	ng/dry g	500	0	111	60 - 140%	PASS		
Cyhalothrin, Total Lambda	NA	590	0.23	0.5	ng/dry g	500	0	118	60 - 140%	PASS		
Cypermethrin	NA	545	0.25	0.5	ng/dry g	500	0	109	60 - 140%	PASS		
Danitol (Fenpropathrin)	NA	564	0.21	0.5	ng/dry g	500	0	113	60 - 140%	PASS		
Deltamethrin/Tralomethrin	NA	466	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS		
Esfenvalerate	NA	502	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS		
Fenvalerate	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS		
Fluvalinate	NA	489	0.23	0.5	ng/dry g	500	0	98	60 - 140%	PASS		
Permethrin, cis-	NA	153	0.17	0.5	ng/dry g	134	0	114	60 - 140%	PASS		
Permethrin, trans-	NA	409	0.22	0.5	ng/dry g	358	0	114	60 - 140%	PASS		
Prallethrin	NA	574	0.28	0.5	ng/dry g	500	0	115	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 20907-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-MRM				Batch ID: O-21012		Prepared: 08-Jan-19			Analyzed: 26-Jan-19			
Allethrin	NA	626	0.28	0.5	ng/dry g	500	0	125	60 - 140%	PASS	0	30	PASS
Bifenthrin	NA	548	0.22	0.5	ng/dry g	500	0	110	60 - 140%	PASS	7	30	PASS
Cyfluthrin	NA	547	0.25	0.5	ng/dry g	500	0	109	60 - 140%	PASS	2	30	PASS
Cyhalothrin, Total Lambda	NA	639	0.23	0.5	ng/dry g	500	0	128	60 - 140%	PASS	8	30	PASS
Cypermethrin	NA	526	0.25	0.5	ng/dry g	500	0	105	60 - 140%	PASS	4	30	PASS
Danitol (Fenpropathrin)	NA	626	0.21	0.5	ng/dry g	500	0	125	60 - 140%	PASS	10	30	PASS
Deltamethrin/Tralomethrin	NA	449	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS	3	30	PASS
Esfenvalerate	NA	464	0.25	0.5	ng/dry g	500	0	93	60 - 140%	PASS	7	30	PASS
Fenvalerate	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	9	30	PASS
Fluvalinate	NA	464	0.23	0.5	ng/dry g	500	0	93	60 - 140%	PASS	5	30	PASS
Permethrin, cis-	NA	152	0.17	0.5	ng/dry g	134	0	113	60 - 140%	PASS	1	30	PASS
Permethrin, trans-	NA	401	0.22	0.5	ng/dry g	358	0	112	60 - 140%	PASS	2	30	PASS
Prallethrin	NA	610	0.28	0.5	ng/dry g	500	0	122	60 - 140%	PASS	6	30	PASS
Sample ID: 56742-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**			
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 31-Jan-19			
Allethrin	NA	ND	0.28	0.5	ng/dry g								
Bifenthrin	NA	ND	0.22	0.5	ng/dry g								
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g								
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g								
Cypermethrin	NA	ND	0.25	0.5	ng/dry g								
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g								
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g								
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fenvalerate	NA	ND	0.25	0.5	ng/dry g								
Fluvalinate	NA	ND	0.23	0.5	ng/dry g								
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g								
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g								
Prallethrin	NA	ND	0.28	0.5	ng/dry g								

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56742-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 31-Jan-19		
Allethrin	NA	634	0.28	0.5	ng/dry g	500	0	127	60 - 140%	PASS				
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%	PASS				
Cyfluthrin	NA	484	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS				
Cyhalothrin, Total Lambda	NA	571	0.23	0.5	ng/dry g	500	0	114	60 - 140%	PASS				
Cypermethrin	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%	PASS				
Danitol (Fenpropathrin)	NA	600	0.21	0.5	ng/dry g	500	0	120	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	413	0.25	0.5	ng/dry g	500	0	83	60 - 140%	PASS				
Esfenvalerate	NA	425	0.25	0.5	ng/dry g	500	0	85	60 - 140%	PASS				
Fenvalerate	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS				
Fluvalinate	NA	388	0.23	0.5	ng/dry g	500	0	78	60 - 140%	PASS				
Permethrin, cis-	NA	154	0.17	0.5	ng/dry g	134	0	115	60 - 140%	PASS				
Permethrin, trans-	NA	394	0.22	0.5	ng/dry g	358	0	110	60 - 140%	PASS				
Prallethrin	NA	531	0.28	0.5	ng/dry g	500	0	106	60 - 140%	PASS				
Sample ID: 56742-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 31-Jan-19		
Allethrin	NA	594	0.28	0.5	ng/dry g	500	0	119	60 - 140%	PASS	7	30	PASS	
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%	PASS	0	30	PASS	
Cyfluthrin	NA	609	0.25	0.5	ng/dry g	500	0	122	60 - 140%	PASS	23	30	PASS	
Cyhalothrin, Total Lambda	NA	632	0.23	0.5	ng/dry g	500	0	126	60 - 140%	PASS	10	30	PASS	
Cypermethrin	NA	593	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	22	30	PASS	
Danitol (Fenpropathrin)	NA	598	0.21	0.5	ng/dry g	500	0	120	60 - 140%	PASS	0	30	PASS	
Deltamethrin/Tralomethrin	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	15	30	PASS	
Esfenvalerate	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140%	PASS	14	30	PASS	
Fenvalerate	NA	539	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	17	30	PASS	
Fluvalinate	NA	460	0.23	0.5	ng/dry g	500	0	92	60 - 140%	PASS	16	30	PASS	
Permethrin, cis-	NA	171	0.17	0.5	ng/dry g	134	0	128	60 - 140%	PASS	11	30	PASS	
Permethrin, trans-	NA	452	0.22	0.5	ng/dry g	358	0	126	60 - 140%	PASS	14	30	PASS	
Prallethrin	NA	548	0.28	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56750-MS1	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**				
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 31-Jan-19				
Allethrin	NA	125	0.28	0.5	ng/dry g	90.8	0	138	60 - 140%	PASS				
Bifenthrin	NA	120	0.22	0.5	ng/dry g	90.8	0	132	60 - 140%	PASS				
Cyfluthrin	NA	129	0.25	0.5	ng/dry g	90.8	0	142	60 - 140%	FAIL				M
Cyhalothrin, Total Lambda	NA	143	0.23	0.5	ng/dry g	90.8	0	157	60 - 140%	FAIL				M
Cypermethrin	NA	130	0.25	0.5	ng/dry g	90.8	0	143	60 - 140%	FAIL				M
Danitol (Fenpropathrin)	NA	123	0.21	0.5	ng/dry g	90.8	0	135	60 - 140%	PASS				
Deltamethrin/Tralomethrin	NA	71.6	0.25	0.5	ng/dry g	90.8	0	79	60 - 140%	PASS				
Esfenvalerate	NA	95.8	0.25	0.5	ng/dry g	90.8	0	106	60 - 140%	PASS				
Fenvalerate	NA	119	0.25	0.5	ng/dry g	90.8	0	131	60 - 140%	PASS				
Fluvalinate	NA	96	0.23	0.5	ng/dry g	90.8	0	106	60 - 140%	PASS				
Permethrin, cis-	NA	37.2	0.17	0.5	ng/dry g	24.2	0	154	60 - 140%	FAIL				M
Permethrin, trans-	NA	95	0.22	0.5	ng/dry g	65	0	146	60 - 140%	FAIL				M
Prallethrin	NA	25.3	0.28	0.5	ng/dry g	90.8	0	28	60 - 140%	FAIL				M
Sample ID: 56750-MS2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**				
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 31-Jan-19				
Allethrin	NA	135	0.28	0.5	ng/dry g	91.3	0	148	60 - 140%	FAIL	7	30	PASS	M
Bifenthrin	NA	121	0.22	0.5	ng/dry g	91.3	0	133	60 - 140%	PASS	1	30	PASS	
Cyfluthrin	NA	123	0.25	0.5	ng/dry g	91.3	0	135	60 - 140%	PASS	5	30	PASS	
Cyhalothrin, Total Lambda	NA	129	0.23	0.5	ng/dry g	91.3	0	141	60 - 140%	FAIL	11	30	PASS	M
Cypermethrin	NA	120	0.25	0.5	ng/dry g	91.3	0	131	60 - 140%	PASS	9	30	PASS	
Danitol (Fenpropathrin)	NA	123	0.21	0.5	ng/dry g	91.3	0	135	60 - 140%	PASS	0	30	PASS	
Deltamethrin/Tralomethrin	NA	104	0.25	0.5	ng/dry g	91.3	0	114	60 - 140%	PASS	36	30	FAIL	M
Esfenvalerate	NA	96.8	0.25	0.5	ng/dry g	91.3	0	106	60 - 140%	PASS	0	30	PASS	
Fenvalerate	NA	106	0.25	0.5	ng/dry g	91.3	0	116	60 - 140%	PASS	12	30	PASS	
Fluvalinate	NA	99.1	0.23	0.5	ng/dry g	91.3	0	109	60 - 140%	PASS	3	30	PASS	
Permethrin, cis-	NA	34.4	0.17	0.5	ng/dry g	24.4	0	141	60 - 140%	FAIL	9	30	PASS	M
Permethrin, trans-	NA	87.7	0.22	0.5	ng/dry g	65.3	0	134	60 - 140%	PASS	9	30	PASS	
Prallethrin	NA	109	0.28	0.5	ng/dry g	91.3	0	119	60 - 140%	PASS	124	30	FAIL	M

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56750-R2	**B18-10144**				**Matrix: Sediment**		**Sampled: 30-Jul-18**	**9:00**		**Received: 31-Jul-18**		
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 31-Jan-19		
Allethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS
Bifenthrin	NA	ND	0.22	0.5	ng/dry g					0	30	PASS
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Cypermethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g					0	30	PASS
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fenvalerate	NA	ND	0.25	0.5	ng/dry g					0	30	PASS
Fluvalinate	NA	ND	0.23	0.5	ng/dry g					0	30	PASS
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g					0	30	PASS
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g					0	30	PASS
Prallethrin	NA	ND	0.28	0.5	ng/dry g					0	30	PASS

CHAIN OF CUSTODY

1807003-012

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ANALYSES REQUESTED

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES										
	7/30/2018	1337 MK	~~seawater~~	sediment B18-10034	3	X										
	7/30/2018	1245	~~seawater~~	B18-10035	3	X										
	7/30/2018	1100	~~seawater~~	B18-10036	3	X										
	7/30/2018	0737	~~seawater~~	B18-10143	3	X										
	7/30/2018	0900	~~seawater~~	B18-10144	3	X										
	7/30/2018	1000	~~seawater~~	B18-10039	3	X										

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

MS/MSD analysis

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Mark Stransky	07/31/18 0905	
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

[a] Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

[b] USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

[c] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

[d] Includes cis-chlordane, trans-chlordane, o,p'-DDT, p,p'-DDT, o,p'-DDD, p,p'-DDD, o,p'-DDE, p,p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

[e] Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

[f] Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194,195, 200, 201, 203, 206, and 209.

[g] Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-012

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/31/2018 Received By: BB Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 7	☐ BLUE ☑ WET ☐ DRY
Start 7:00 End 11:00 ☐ Other:	☐ Other :	☐ None 5.9 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 15, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-014

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/2/2018. A total of 11 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-014

2018 Regional Harbor Monitoring Program Total Samples: 11

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56809	B18-10037		7/31/2018	10:35	Sediment
56810	B18-10038		7/31/2018	11:25	Sediment
56811	B18-10041		7/31/2018	12:50	Sediment
56812	B18-10179		7/31/2018	9:45	Sediment
56813	B18-10180		7/31/2018	8:45	Sediment
56814	B18-10181		7/31/2018	7:53	Sediment
56815	B18-10042		8/1/2018	12:15	Sediment
56816	B18-10085		8/1/2018	7:55	Sediment
56817	B18-10086		8/1/2018	8:43	Sediment
56818	B18-10087		8/1/2018	10:43	Sediment
56819	B18-10088		8/1/2018	9:25	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	60			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	62			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	71			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	53			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.579	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	69			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	70			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	97			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	64			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	67			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	65			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	92			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	64			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	74			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	75			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	82			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	66			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	0.212	0.2	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	3.39	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.241	0.187	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.426	0.179	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.228	0.192	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.285	0.186	0.5	NA	J	O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	61			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	77			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	50			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.557	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	1.61	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	76			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	54			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.697	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	1.48	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**12:15**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	50			NA		O-21014	10-Jan-19	06-Feb-19
(PCB112)	EPA 8270D	% Recovery	44			NA		O-21014	10-Jan-19	06-Feb-19
(PCB198)	EPA 8270D	% Recovery	58			NA		O-21014	10-Jan-19	06-Feb-19
(TCMX)	EPA 8270D	% Recovery	48			NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	06-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	06-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	06-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	06-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	06-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	06-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	06-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	06-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**7:55**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	64			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	61			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	82			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**8:43**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	68			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	61			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	85			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	63			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**10:43**	**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	55			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	54			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	68			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	51			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	0.348	0.193	0.5	NA	J	O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18 9:25**			**Received: 02-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	42			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	37			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	50			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	41			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	22-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	166	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	18	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	54.7	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.11	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.14	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	484	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Sample ID: 56810-R1	**B18-10038**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	7.38	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	6.04	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	72.5	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.21	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	226	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	74.4	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	9.45	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	60.3	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.06	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.65	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	426	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	37.2	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.6	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	56.6	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.1	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.25	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	450	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Sample ID: 56813-R1	**B18-10180**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	19.9	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.1	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	63.9	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.07	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.76	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	409	0.016	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Sample ID: 56814-R1	**B18-10181**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	32	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.9	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	58.9	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.08	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.93	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	464	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18 12:15**			**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	39.2	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	13	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	46	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.15	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.42	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	595	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**		**Sampled: 01-Aug-18 7:55**			**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	95.8	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	6.08	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	62.2	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.05	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.53	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	311	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18 8:43**			**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	9.32	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	6.93	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	63.2	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.04	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.51	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	328	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18 10:43**			**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	68.5	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	4.05	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	54.4	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.09	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.98	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	434	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18 9:25**			**Received: 02-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	70.6	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	10.8	0.02	0.03	NA		C-39078	07-Jan-19	07-Jan-19
Percent Solids	SM 2540 B	%	46	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.17	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.63	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	730	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**10:35**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	35000	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.159	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.88	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	95.6	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.538	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.184	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	43	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	91.6	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	31600	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	18.9	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.145	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	13.1	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.346	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.419	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	160	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**11:25**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	10300	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0986	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	3.83	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	31.1	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.181	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0944	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	13.8	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	25.4	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	9860	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	7.27	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.094	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	3.77	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.107	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.215	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	68.7	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	22000	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.13	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.63	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	45.9	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.361	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.167	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	28.8	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	44.7	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	21400	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	13.1	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.132	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	8.14	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.261	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.323	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	153	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**9:45**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	37100	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.201	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.73	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	113	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.566	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.377	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	40.7	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	86.6	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	32800	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	24.2	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0937	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	13.8	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.316	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.369	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	200	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**8:45**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	28800	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.129	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	5.93	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	86.6	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.43	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.143	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	34.7	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	70.3	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	26500	1	5	NA		E-14072	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	14.8	0.0025	0.005	NA		E-14072	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.106	1E-05	0.00002	NA		E-15089	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	10.8	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.265	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.304	0.01	0.02	NA		E-14072	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	125	0.025	0.05	NA		E-14072	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	32000	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.135	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.37	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	100	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.476	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.151	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	36.8	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	72.1	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	29700	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	15.7	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0935	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	12.1	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.292	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.285	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	134	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**12:15**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	46600	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.176	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.73	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	87.1	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.719	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.185	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	55.4	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	93.6	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	39600	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	25	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.19	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	16.9	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.37	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.448	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	219	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**			**Sampled: 01-Aug-18**	**7:55**	**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	20500	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.127	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	3.69	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	49.8	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.335	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.101	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	26.7	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	105	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	17200	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	10.8	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0931	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	7.83	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.201	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.343	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	149	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18 8:43**			**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	21600	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.165	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	3.48	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	58	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.375	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.127	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	28.3	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	113	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	18100	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	12	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0941	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	8.58	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.192	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.344	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	144	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**10:43**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	41200	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.173	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	7.5	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	94.5	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.746	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.253	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	53.1	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	141	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	34200	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	18.6	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.105	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	15.2	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.377	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.619	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	227	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**9:25**		**Received: 02-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	54300	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.341	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	11.9	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	98.6	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.881	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.311	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	69.7	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	144	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	46100	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	34.5	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.282	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	20.4	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.52	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.869	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	328	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.157	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0525	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0126	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.3	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.119	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.022	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00561	0.0033	0.0066	NA	J	E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.722	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56811-R1	**B18-10041**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.154	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0373	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0126	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.5	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00206	0.0018	0.0036	NA	J	E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.307	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0768	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0165	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.78	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56813-R1	**B18-10180**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17004	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.27	0.0062	0.0124	NA		E-17004	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0429	0.0002	0.0004	NA		E-17004	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0108	0.0033	0.0066	NA		E-17004	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17004	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.996	0.0015	0.003	NA		E-17004	14-Jan-19	15-Jan-19
Sample ID: 56814-R1	**B18-10181**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.298	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0551	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0112	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.19	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**12:15**	**Received: 02-Aug-18**		
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.387	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0772	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0266	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.06	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19
Sample ID: 56816-R1	**B18-10085**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**7:55**	**Received: 02-Aug-18**		
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.189	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0278	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0099	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.62	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19
Sample ID: 56817-R1	**B18-10086**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**8:43**	**Received: 02-Aug-18**		
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.613	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0356	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.011	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.39	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**10:43**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.399	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0514	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0182	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	2.33	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**9:25**	**Received: 02-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.448	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0947	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0298	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	3.05	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56810-R1	**B18-10038**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56812-R1	**B18-10179**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56814-R1	**B18-10181**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**12:15**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**7:55**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**8:43**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**10:43**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**9:25**	**Received: 02-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	22-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	12.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	12.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	9.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	7.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	5.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	3.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	3.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	3.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	1.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	23.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	26.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	17	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	0.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	7.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	18	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	23.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	17.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	9.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	4.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	2.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	2.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	1.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	2.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	8.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	12.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	17.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	15.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	10.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	6.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	4.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	2.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	3.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	3.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	2.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	7.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	12.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	17.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	15	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	10.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	6.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	2.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	3.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	1.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	1.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	11.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	8.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	10.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	10.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	8.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	6.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	3.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	5.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**12:15**	**Received: 02-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	7.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	3.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	6.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	7.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	4.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	9.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	6.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	2.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**7:55**		**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	9.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	9.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	12.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	20.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	15.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	2.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	1.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	3.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	0.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**			**Sampled: 01-Aug-18 8:43**		**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	6.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	9.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	19.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	17.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	2.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	3.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	2.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**			**Sampled: 01-Aug-18 10:43**		**Received: 02-Aug-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	12.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	6.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	6.6	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	4.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	7.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	4.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	6.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**9:25**	**Received: 02-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.0	SM 2560 D	%	2.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 10.5	SM 2560 D	%	2.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 11.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1110	15-Feb-19	15-Feb-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 2.5	SM 2560 D	%	1.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 3.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 4.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.0	SM 2560 D	%	8.3	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 5.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.0	SM 2560 D	%	10.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 6.5	SM 2560 D	%	7.5	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 7.0	SM 2560 D	%	12	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	7.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.0	SM 2560 D	%	9	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 8.5	SM 2560 D	%	6.8	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.0	SM 2560 D	%	6.2	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19
Phi 9.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1110	15-Feb-19	15-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	1.32	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	0.531	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	1.09	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	0.172	0.021	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.368	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.427	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.566	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.234	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.445	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.83	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.66	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	1.12	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	0.131	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	0.205	0.085	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.568	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.145	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.469	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**11:25**	**Received: 02-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	0.283	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	0.422	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.0912	0.028	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.134	0.027	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.196	0.057	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.0965	0.092	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.239	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.178	0.074	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**12:50**	**Received: 02-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.105	0.1	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.206	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.215	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.321	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.138	0.092	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.431	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.177	0.074	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**9:45**		**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	0.236	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	0.204	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	0.301	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	0.193	0.023	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	0.119	0.021	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.563	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.816	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	1.04	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.708	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.725	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	1.29	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	1.07	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	0.33	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	1.7	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.236	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	0.197	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.163	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.556	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**8:45**	**Received: 02-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.211	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.373	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.437	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.319	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.388	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.855	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.472	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	0.142	0.073	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.856	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.247	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.208	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	0.129	0.12	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	0.151	0.085	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.545	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.13	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.416	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.269	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.335	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.468	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	0.265	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	0.23	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.782	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.492	0.092	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	0.148	0.073	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.883	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	0.162	0.085	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	0.387	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.0815	0.056	0.25	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	0.351	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**12:15**		**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB095	EPA 8270D	ng/dry g	0.11	0.1	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB099	EPA 8270D	ng/dry g	0.149	0.028	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.179	0.027	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB138	EPA 8270D	ng/dry g	0.373	0.057	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB149	EPA 8270D	ng/dry g	0.135	0.092	0.2	NA	J	O-21014	10-Jan-19	06-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB153	EPA 8270D	ng/dry g	0.426	0.065	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB158	EPA 8270D	ng/dry g	0.228	0.074	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	06-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	06-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	06-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**7:55**		**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.188	0.028	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.123	0.027	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.227	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.0955	0.092	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.334	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.123	0.074	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**8:43**	**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	0.468	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.242	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.205	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.155	0.069	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.283	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.217	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.603	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.316	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled: 01-Aug-18**		**10:43**	**Received: 02-Aug-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	0.141	0.012	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	0.27	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.423	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.498	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	0.253	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.224	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.505	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.408	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.644	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.214	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.188	0.168	0.25	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**		**Matrix: Sediment**			**Sampled: 01-Aug-18 9:25**		**Received: 02-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.203	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.167	0.027	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.35	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.162	0.092	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.377	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.158	0.074	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**10:35**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	86			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	92			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.274	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.17	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**11:25**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	98			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	107			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**12:50**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	101			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	86			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**9:45**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	102			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	104			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.533	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.19	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.344	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.135	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.266	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	5.64	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	89			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	90			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.205	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	6.59	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.91	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**7:53**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	0.222	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.343	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.193	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	2.81	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**12:15**	**Received: 02-Aug-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	63			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**7:55**	**Received: 02-Aug-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	84			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.46	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled: 01-Aug-18**	**8:43**	**Received: 02-Aug-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	92			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	13.6	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**		**Matrix: Sediment**			**Sampled: 01-Aug-18**		**10:43**	**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	83			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	80			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.392	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.35	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled: 01-Aug-18 9:25**			**Received: 02-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	52			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	60			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**			**Matrix: Sediment**		**Sampled: 31-Jul-18**			**Received: 02-Aug-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	63	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	59	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	68	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	64	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	77	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.677036	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.511261	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	2.663987	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.711015	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.025297	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.510915	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	2.121138	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	3.717431	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	14.12043	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	28.03458	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	28.12172	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	24.07755	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	29.81831	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	25.51569	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.7580742	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	26.23329	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	5.355551	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.034761	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	23.43564	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.024322	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	25.86787	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.683354	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	6.971182	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	12.78186	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	27.4883	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	76	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	82	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	89	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	90	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	74	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.10375	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.100602	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	1.566348	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.173517	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.7088	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.4231767	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	0.9468021	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	4.690014	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	6.883244	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	6.284945	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	5.435029	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	6.361586	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	6.297573	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.3594937	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	5.236851	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	1.351227	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.5202529	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	9.121985	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.8497984	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	5.745423	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	1.502932	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	1.609568	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	5.835226	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	9.785165	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	71	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	80	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	80	0	0	NA		O-21040	13-Mar-19	19-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	72	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.41336	0	0	NA		O-21040	13-Mar-19	19-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.623841	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	2.306846	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.266642	0	0	NA		O-21040	13-Mar-19	19-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.739695	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.2922236	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.6644201	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Anthracene	EPA 8270D	ng/dry g	1.133697	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	3.265153	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	7.812852	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	7.132974	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	6.892692	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	10.35382	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	6.312181	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.6078985	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Chrysene	EPA 8270D	ng/dry g	5.681553	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	1.449719	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.7681223	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	9.198994	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.203228	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	8.727675	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.71681	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Perylene	EPA 8270D	ng/dry g	1.793169	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	7.913616	0	0	NA		O-21040	13-Mar-19	19-Mar-19
Pyrene	EPA 8270D	ng/dry g	10.66713	0	0	NA		O-21040	13-Mar-19	19-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	62	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	64	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	75	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	69	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	72	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.396312	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.885372	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	1.974396	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.697315	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.785175	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.7375689	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	2.283762	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	4.093086	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	18.94032	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	30.72419	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	35.2097	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	31.76419	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	40.28375	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	32.12686	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.7912873	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	30.60879	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.214627	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.440696	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	37.87132	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.591601	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	29.73431	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.88771	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	9.280602	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	15.7872	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	44.7879	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	70	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	70	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	77	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	78	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	80	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.116074	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.487862	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	1.826909	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.406365	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.112577	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.4054822	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	2.486715	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	4.563975	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	11.31375	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	22.056	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	23.11002	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	19.55672	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	23.62589	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	21.7981	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.6650812	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	19.47198	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.384596	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.151604	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	21.93936	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.530845	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	19.70503	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.086868	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	6.064758	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	11.37313	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	25.66998	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	65	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	67	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	73	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	74	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	75	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.42873	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.430338	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	2.213493	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.643001	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.678423	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.6782036	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	2.582887	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	6.298612	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	14.71196	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	23.88895	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	26.03777	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	21.86951	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	26.30898	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	24.60318	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.8934908	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	27.63124	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.69765	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.340625	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	29.45174	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.091352	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	20.49347	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.214968	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	6.625226	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	13.42585	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	28.87699	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	54	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	51	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	58	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	59	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	68	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.935531	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.051529	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	2.905287	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.802057	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.122527	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.4424652	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.628064	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.302689	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	8.069737	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	20.23795	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	17.10246	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	17.20501	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	24.93083	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	15.75531	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.7672021	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	15.17868	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	3.467739	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.170067	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	19.64618	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.757394	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	20.21928	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	4.117921	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	5.121457	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	11.2426	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	24.39098	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	65	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	63	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	73	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	74	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	75	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.347897	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.485603	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	1.744252	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.178666	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.252087	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.3375385	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.5592211	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	1.010023	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	4.194939	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	9.693897	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	9.980652	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	9.483118	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	16.49211	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	8.795594	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.5414209	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	8.058366	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	2.027921	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.5970842	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	13.79259	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.244335	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	11.6681	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.931026	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	2.796512	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	7.901731	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	14.44252	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	69	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	68	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	70	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	72	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	74	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.176384	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	1.867405	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	1.968136	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.360952	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.144397	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.5145123	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.8121908	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	1.546007	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	10.89489	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	22.89172	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	24.76085	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	21.80585	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	27.99458	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	22.99011	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.5271984	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	21.47037	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.41948	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.018243	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	34.83901	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.156502	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	24.18582	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.669261	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	5.594062	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	12.93843	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	33.18901	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	54	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	51	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	57	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	80	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	63	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.048865	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	2.092614	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	2.218723	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.461073	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.49197	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.2571455	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.8101451	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	1.412531	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	5.059156	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	10.29337	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	8.723939	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	8.859453	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	12.55757	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	8.32401	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.6068929	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	8.468184	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	1.759486	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.8700323	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	13.68149	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.208722	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	9.816602	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.304377	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	3.082962	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	9.134687	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	16.18897	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	50	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	43	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	52	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	55	0	0	NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	67	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.616119	0	0	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.133662	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,3,5-Trimethylnaphthalene	EPA 8270D	ng/dry g	3.009545	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.546268	0	0	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.267313	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.9764899	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.239739	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	3.20442	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	11.2172	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	18.20903	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	15.42903	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	14.92603	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	18.81967	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	14.87841	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.5870878	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	15.71147	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	2.940345	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.44087	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	29.41473	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.937965	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	15.18919	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	2.98947	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	5.281014	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	19.30256	0	0	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	30.98015	0	0	NA		O-21040	13-Mar-19	20-Mar-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56809-R1	**B18-10037**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**10:35**	**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.669	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56810-R1	**B18-10038**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**11:25**	**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56811-R1	**B18-10041**			**Matrix: Sediment**		**Sampled: 31-Jul-18**	**12:50**		**Received: 02-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56812-R1	**B18-10179**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**9:45**	**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	3.47	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.52	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56813-R1	**B18-10180**		**Matrix: Sediment**			**Sampled: 31-Jul-18**		**8:45**	**Received: 02-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.835	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	0.924	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	0.291	0.25	0.5	NA	J	O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	0.294	0.25	0.5	NA	J	O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56814-R1	**B18-10181**		**Matrix: Sediment**			**Sampled: 31-Jul-18**	**7:53**	**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.99	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.36	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	0.745	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56815-R1	**B18-10042**			**Matrix: Sediment**			**Sampled: 01-Aug-18 12:15**		**Received: 02-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56816-R1	**B18-10085**		**Matrix: Sediment**			**Sampled: 01-Aug-18 7:55**		**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.225	0.22	0.5	NA	J	O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56817-R1	**B18-10086**		**Matrix: Sediment**			**Sampled: 01-Aug-18 8:43**		**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.376	0.22	0.5	NA	J	O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56818-R1	**B18-10087**		**Matrix: Sediment**			**Sampled: 01-Aug-18**	**10:43**	**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	0.224	0.22	0.5	NA	J	O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56819-R1	**B18-10088**		**Matrix: Sediment**			**Sampled: 01-Aug-18 9:25**		**Received: 02-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	31-Jan-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	31-Jan-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 09-Jan-19**			**Analyzed: 09-Jan-19**	
56805-B1	QAQC Procedural Blank	C-41080	ND	0.05	0.1	mg/dry kg								
56805-BS1	QAQC Procedural Blank	C-41080	20.6	0.05	0.1	mg/dry kg	23.3	0	88	80 - 120%	PASS			
56805-BS2	QAQC Procedural Blank	C-41080	20.8	0.05	0.1	mg/dry kg	23.3	0	89	80 - 120%	PASS	1	25 PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 07-Jan-19**			**Analyzed: 07-Jan-19**	
56805-B1	QAQC Procedural Blank	C-39078	ND	0.02	0.03	mg/dry kg								
56805-BS1	QAQC Procedural Blank	C-39078	1.72	0.02	0.03	mg/dry kg	1.69	0	102	80 - 120%	PASS			
56805-BS2	QAQC Procedural Blank	C-39078	1.78	0.02	0.03	mg/dry kg	1.69	0	105	80 - 120%	PASS	3	25 PASS	
56809-MS1	B18-10037	C-39078	28.3	0.02	0.03	mg/dry kg	8.68	18.2	116	80 - 120%	PASS			
56809-MS2	B18-10037	C-39078	28	0.02	0.03	mg/dry kg	8.68	18.2	113	80 - 120%	PASS	3	25 PASS	
56809-R2	B18-10037	C-39078	18.3	0.02	0.03	mg/dry kg						2	25 PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
56805-B1	QAQC Procedural Blank	C-35151	ND	0.1	0.1	%								
56809-R2	B18-10037	C-35151	54.6	0.1	0.1	%						0	25 PASS	
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
56805-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
56805-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
56807-CRM1	QAQC CRM - SRM 1944	O-19054	4.71	0.01	0.01	% dry weight	4.4		107	80 - 120%	PASS			
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**				**Prepared: 24-Dec-18**			**Analyzed: 08-Feb-19**	
14268-B1	QAQC Procedural Blank	E-14072	ND	0.016	0.05	µg/dry g								
14268-BS1	QAQC Procedural Blank	E-14072	49.5	0.016	0.05	µg/dry g	50	0	99	80 - 120%	PASS			
14268-BS2	QAQC Procedural Blank	E-14072	49.6	0.016	0.05	µg/dry g	50	0	99	80 - 120%	PASS	0	25 PASS	
56805-B1	QAQC Procedural Blank	E-14073	ND	0.016	0.05	µg/dry g								
56805-BS1	QAQC Procedural Blank	E-14073	48.3	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS			
56805-BS2	QAQC Procedural Blank	E-14073	48.6	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS	0	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56814-MS1	B18-10181	E-14073	2070	0.016	0.05	µg/dry g	1470	453	110	80 - 120%	PASS				
56814-MS2	B18-10181	E-14073	2040	0.016	0.05	µg/dry g	1470	453	108	80 - 120%	PASS	2	25	PASS	
56814-R2	B18-10181	E-14073	442	0.016	0.05	µg/dry g						5	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	76			% Recovery	100	76	50 - 123%	PASS			
(PCB112)	NA	76			% Recovery	100	76	53 - 129%	PASS			
(PCB198)	NA	92			% Recovery	100	92	51 - 131%	PASS			
(TCMX)	NA	66			% Recovery	100	66	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	69			% Recovery	100	0	69	50 - 123%	PASS		
(PCB112)	NA	77			% Recovery	100	0	77	53 - 129%	PASS		
(PCB198)	NA	98			% Recovery	100	0	98	51 - 131%	PASS		
(TCMX)	NA	51			% Recovery	100	0	51	45 - 117%	PASS		
2,4'-DDD	NA	433	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS		
2,4'-DDE	NA	404	0.2	0.5	ng/dry g	500	0	81	60 - 140%	PASS		
2,4'-DDT	NA	409	0.194	0.5	ng/dry g	500	0	82	60 - 140%	PASS		
4,4'-DDD	NA	568	0.198	0.5	ng/dry g	500	0	114	60 - 140%	PASS		
4,4'-DDE	NA	420	0.193	0.5	ng/dry g	500	0	84	60 - 140%	PASS		
4,4'-DDMU	NA	461	0.223	0.5	ng/dry g	500	0	92	60 - 140%	PASS		
4,4'-DDT	NA	576	0.128	0.5	ng/dry g	500	0	115	60 - 140%	PASS		
Aldrin	NA	471	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS		
BHC-alpha	NA	336	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS		
BHC-beta	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS		
BHC-delta	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS		
BHC-gamma	NA	365	0.25	0.5	ng/dry g	500	0	73	60 - 140%	PASS		
Chlordane-alpha	NA	362	0.187	0.5	ng/dry g	500	0	72	60 - 140%	PASS		
Chlordane-gamma	NA	434	0.179	0.5	ng/dry g	500	0	87	60 - 140%	PASS		
cis-Nonachlor	NA	376	0.192	0.5	ng/dry g	500	0	75	60 - 140%	PASS		
DCPA (Dacthal)	NA	483	5	10	ng/dry g	500	0	97	60 - 140%	PASS		
Dicofol	NA	481	2.5	5	ng/dry g	500	0	96	60 - 140%	PASS		
Dieldrin	NA	389	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS		
Endosulfan Sulfate	NA	351	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS		
Endosulfan-I	NA	12.6	0.25	0.5	ng/dry g	500	0	3	60 - 140%	FAIL		Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140%	PASS		
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS		
Endrin Aldehyde	NA	62.3	0.25	0.5	ng/dry g	500	0	12	60 - 140%	FAIL		Q
Endrin Ketone	NA	498	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS		
Heptachlor	NA	371	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Hexachlorobenzene	NA	334	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS			
Methoxychlor	NA	713	0.25	0.5	ng/dry g	500	0	143	60 - 140%	FAIL			Q
Mirex	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			
Oxychlordane	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	651	5	10	ng/dry g	500	0	130	60 - 140%	PASS			
trans-Nonachlor	NA	374	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
	Method:	EPA 8270D-NCI			Batch ID:	O-21014		Prepared:	10-Jan-19		Analyzed:	22-Jan-19	
Toxaphene	NA	5480	10	20	ng/dry g	5000	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19			
(PCB030)	NA	73			% Recovery	100	0	73	50 - 123%	PASS	6	30	PASS	
(PCB112)	NA	75			% Recovery	100	0	75	53 - 129%	PASS	3	30	PASS	
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131%	PASS	3	30	PASS	
(TCMX)	NA	58			% Recovery	100	0	58	45 - 117%	PASS	13	30	PASS	
2,4'-DDD	NA	435	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	402	0.2	0.5	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
2,4'-DDT	NA	417	0.194	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDD	NA	575	0.198	0.5	ng/dry g	500	0	115	60 - 140%	PASS	1	30	PASS	
4,4'-DDE	NA	417	0.193	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	451	0.223	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	598	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	4	30	PASS	
Aldrin	NA	495	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	5	30	PASS	
BHC-alpha	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	10	30	PASS	
BHC-beta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	389	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	1	30	PASS	
BHC-gamma	NA	388	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	7	30	PASS	
Chlordane-alpha	NA	372	0.187	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140%	PASS	1	30	PASS	
cis-Nonachlor	NA	379	0.192	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
DCPA (Dacthal)	NA	497	5	10	ng/dry g	500	0	99	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	587	2.5	5	ng/dry g	500	0	117	60 - 140%	PASS	20	30	PASS	
Dieldrin	NA	392	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS	0	30	PASS	
Endosulfan Sulfate	NA	361	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	12.1	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	40	30	FAIL	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	446	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	3	30	PASS	
Endrin Aldehyde	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140%	FAIL	55	30	FAIL	Q
Endrin Ketone	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	411	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	8	30	PASS	
Hexachlorobenzene	NA	348	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	728	0.25	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Mirex	NA	442	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS	
Oxychlordane	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	5	30	PASS	
Perthane	NA	672	5	10	ng/dry g	500	0	134	60 - 140%	PASS	3	30	PASS	
trans-Nonachlor	NA	383	0.186	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Toxaphene	NA	5550	10	20	ng/dry g	5000	0	111	60 - 140%	PASS	1	30	PASS	
Sample ID: 56807-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
(PCB030)	NA	92			% Recovery	100		92	33 - 149%	PASS				
(PCB112)	NA	95			% Recovery	100		95	49 - 120%	PASS				
(PCB198)	NA	54			% Recovery	100		54	35 - 123%	PASS				
(TCMX)	NA	94			% Recovery	100		94	37 - 138%	PASS				
2,4'-DDD	NA	39.5	0.267	0.5	ng/dry g	38		104	60 - 140%	PASS				
2,4'-DDE	NA	25.1	0.2	0.5	ng/dry g	19		132	60 - 140%	PASS				
4,4'-DDD	NA	136	0.198	0.5	ng/dry g	108		126	60 - 140%	PASS				
4,4'-DDE	NA	113	0.193	0.5	ng/dry g	86		131	60 - 140%	PASS				
4,4'-DDT	NA	166	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	21.1	0.187	0.5	ng/dry g	16.5		128	60 - 140%	PASS				
Chlordane-gamma	NA	30.2	0.179	0.5	ng/dry g	19		159	60 - 140%	FAIL				1
cis-Nonachlor	NA	3.92	0.192	0.5	ng/dry g	3.7		106	60 - 140%	PASS				
Hexachlorobenzene	NA	6	0.25	0.5	ng/dry g	6		100	60 - 140%	PASS				
trans-Nonachlor	NA	11.3	0.186	0.5	ng/dry g	8.2		138	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 14268-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 14268-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.84	1	5	µg/dry g	2	0	92	70 - 130%	PASS		
Antimony (Sb)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS		
Barium (Ba)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Beryllium (Be)	NA	1.99	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Cadmium (Cd)	NA	2.07	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS		
Chromium (Cr)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Nickel (Ni)	NA	1.95	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS		
Selenium (Se)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
Silver (Ag)	NA	0.2	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 14268-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18					Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.79	1	5	µg/dry g	2	0	89	70 - 130%	PASS	2	30 PASS	
Antimony (Sb)	NA	2.02	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	0	30 PASS	
Arsenic (As)	NA	1.94	0.025	0.05	µg/dry g	2	0	97	70 - 130%	PASS	0	30 PASS	
Barium (Ba)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	1	30 PASS	
Beryllium (Be)	NA	2.01	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Cadmium (Cd)	NA	2.08	0.0025	0.005	µg/dry g	2	0	104	70 - 130%	PASS	0	30 PASS	
Chromium (Cr)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	1	30 PASS	
Copper (Cu)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	0	30 PASS	
Iron (Fe)	NA	1.93	1	5	µg/dry g	2	0	96	70 - 130%	PASS	0	30 PASS	
Lead (Pb)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS	2	30 PASS	
Nickel (Ni)	NA	1.96	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS	0	30 PASS	
Selenium (Se)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS	0	30 PASS	
Silver (Ag)	NA	0.204	0.01	0.02	µg/dry g	0.2	0	102	70 - 130%	PASS	2	30 PASS	
Zinc (Zn)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30 PASS	
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19					Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1070	1E-05	0.00002	µg/dry g	1000	0	107	70 - 130%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
		Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18			Analyzed: 08-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19			Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS		
Antimony (Sb)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Arsenic (As)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
Barium (Ba)	NA	2.05	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS		
Beryllium (Be)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS		
Cadmium (Cd)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Chromium (Cr)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Nickel (Ni)	NA	1.96	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS		
Selenium (Se)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Silver (Ag)	NA	0.201	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	1.95	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18					Analyzed: 08-Feb-19	
Aluminum (Al)	NA	2.35	1	5	µg/dry g	2	0	117	70 - 130%	PASS	27	30 PASS	
Antimony (Sb)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS	0	30 PASS	
Arsenic (As)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
Barium (Ba)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	2	30 PASS	
Beryllium (Be)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30 PASS	
Cadmium (Cd)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30 PASS	
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Copper (Cu)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30 PASS	
Iron (Fe)	NA	2.46	1	5	µg/dry g	2	0	123	70 - 130%	PASS	25	30 PASS	
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	1	30 PASS	
Nickel (Ni)	NA	1.97	0.01	0.02	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
Selenium (Se)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	2	30 PASS	
Silver (Ag)	NA	0.209	0.01	0.02	µg/dry g	0.2	0	104	70 - 130%	PASS	4	30 PASS	
Zinc (Zn)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19					Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1090	1E-05	0.00002	µg/dry g	1000	0	109	70 - 130%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56806-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	13700	1	5	µg/dry g	10100	136	42 - 124%	FAIL			
Antimony (Sb)	NA	113	0.025	0.05	µg/dry g	145	78	10 - 137%	PASS			
Arsenic (As)	NA	179	0.025	0.05	µg/dry g	171	105	66 - 122%	PASS			
Beryllium (Be)	NA	109	0.025	0.05	µg/dry g	102	107	72 - 120%	PASS			
Cadmium (Cd)	NA	220	0.0025	0.005	µg/dry g	225	98	70 - 117%	PASS			
Chromium (Cr)	NA	166	0.0025	0.005	µg/dry g	144	115	66 -123%	PASS			
Copper (Cu)	NA	177	0.0025	0.005	µg/dry g	174	102	71 - 119%	PASS			
Iron (Fe)	NA	23700	1	5	µg/dry g	15000	158	33 - 155%	FAIL			
Lead (Pb)	NA	109	0.0025	0.005	µg/dry g	111	98	71 - 129%	PASS			
Nickel (Ni)	NA	97.3	0.01	0.02	µg/dry g	98.3	99	65 - 121%	PASS			
Selenium (Se)	NA	217	0.025	0.05	µg/dry g	206	105	64 - 122%	PASS			
Silver (Ag)	NA	43.1	0.01	0.02	µg/dry g	45.5	95	66 - 124%	PASS			
Zinc (Zn)	NA	215	0.025	0.05	µg/dry g	207	104	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.4	1E-05	0.00002	µg/dry g	12	87	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56814-MS1	**B18-10181**				**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**			
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18			Analyzed: 08-Feb-19			
Aluminum (Al)	NA	31500	1	5	µg/dry g	59	32000	-847	70 - 130%	FAIL			SH
Antimony (Sb)	NA	60.4	0.025	0.05	µg/dry g	59	0.147	102	70 - 130%	PASS			
Arsenic (As)	NA	69.7	0.025	0.05	µg/dry g	59	6.38	107	70 - 130%	PASS			
Barium (Ba)	NA	162	0.025	0.05	µg/dry g	59	100	105	70 - 130%	PASS			
Beryllium (Be)	NA	61.1	0.025	0.05	µg/dry g	59	0.462	103	70 - 130%	PASS			
Cadmium (Cd)	NA	60.7	0.0025	0.005	µg/dry g	59	0.156	103	70 - 130%	PASS			
Chromium (Cr)	NA	101	0.0025	0.005	µg/dry g	59	37	108	70 - 130%	PASS			
Copper (Cu)	NA	131	0.0025	0.005	µg/dry g	59	71.5	101	70 - 130%	PASS			
Iron (Fe)	NA	30000	1	5	µg/dry g	59	29500	847	70 - 130%	FAIL			SH
Lead (Pb)	NA	70.9	0.0025	0.005	µg/dry g	59	15.6	94	70 - 130%	PASS			
Nickel (Ni)	NA	72.3	0.01	0.02	µg/dry g	59	12	102	70 - 130%	PASS			
Selenium (Se)	NA	62.2	0.025	0.05	µg/dry g	59	0.298	105	70 - 130%	PASS			
Silver (Ag)	NA	6.28	0.01	0.02	µg/dry g	5.9	0.29	102	70 - 130%	PASS			
Zinc (Zn)	NA	196	0.025	0.05	µg/dry g	59	133	107	70 - 130%	PASS			
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19			Analyzed: 11-Jan-19			
Mercury (Hg)	NA	0.265	1E-05	0.00002	µg/dry g	0.147	0.0941	116	70 - 130%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56814-MS2	**B18-10181**				**Matrix: Sediment**			**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**			
	Method: EPA 6020				Batch ID: E-14073			Prepared: 24-Dec-18			Analyzed: 08-Feb-19			
Aluminum (Al)	NA	31000	1	5	µg/dry g	59	32000	-1695	70 - 130%	FAIL	67	30	FAIL	SH
Antimony (Sb)	NA	61	0.025	0.05	µg/dry g	59	0.147	103	70 - 130%	PASS	1	30	PASS	
Arsenic (As)	NA	70	0.025	0.05	µg/dry g	59	6.38	108	70 - 130%	PASS	1	30	PASS	
Barium (Ba)	NA	162	0.025	0.05	µg/dry g	59	100	105	70 - 130%	PASS	0	30	PASS	
Beryllium (Be)	NA	61.6	0.025	0.05	µg/dry g	59	0.462	104	70 - 130%	PASS	1	30	PASS	
Cadmium (Cd)	NA	61.6	0.0025	0.005	µg/dry g	59	0.156	104	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	100	0.0025	0.005	µg/dry g	59	37	107	70 - 130%	PASS	1	30	PASS	
Copper (Cu)	NA	130	0.0025	0.005	µg/dry g	59	71.5	99	70 - 130%	PASS	2	30	PASS	
Iron (Fe)	NA	29500	1	5	µg/dry g	59	29500	0	70 - 130%	FAIL	200	30	FAIL	SH
Lead (Pb)	NA	71.3	0.0025	0.005	µg/dry g	59	15.6	94	70 - 130%	PASS	0	30	PASS	
Nickel (Ni)	NA	71	0.01	0.02	µg/dry g	59	12	100	70 - 130%	PASS	2	30	PASS	
Selenium (Se)	NA	63.3	0.025	0.05	µg/dry g	59	0.298	107	70 - 130%	PASS	2	30	PASS	
Silver (Ag)	NA	6.31	0.01	0.02	µg/dry g	5.9	0.29	102	70 - 130%	PASS	0	30	PASS	
Zinc (Zn)	NA	194	0.025	0.05	µg/dry g	59	133	103	70 - 130%	PASS	4	30	PASS	
	Method: EPA 245.7				Batch ID: E-15090			Prepared: 11-Jan-19			Analyzed: 11-Jan-19			
Mercury (Hg)	NA	0.267	1E-05	0.00002	µg/dry g	0.147	0.0941	118	70 - 130%	PASS	2	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56814-R2	**B18-10181**				**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**		
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18			Analyzed: 08-Feb-19		
Aluminum (Al)	NA	31900	1	5	µg/dry g					0	30	PASS
Antimony (Sb)	NA	0.159	0.025	0.05	µg/dry g					16	30	PASS
Arsenic (As)	NA	6.38	0.025	0.05	µg/dry g					0	30	PASS
Barium (Ba)	NA	100	0.025	0.05	µg/dry g					0	30	PASS
Beryllium (Be)	NA	0.448	0.025	0.05	µg/dry g					6	30	PASS
Cadmium (Cd)	NA	0.16	0.0025	0.005	µg/dry g					6	30	PASS
Chromium (Cr)	NA	37.2	0.0025	0.005	µg/dry g					1	30	PASS
Copper (Cu)	NA	71	0.0025	0.005	µg/dry g					2	30	PASS
Iron (Fe)	NA	29400	1	5	µg/dry g					1	30	PASS
Lead (Pb)	NA	15.5	0.0025	0.005	µg/dry g					1	30	PASS
Nickel (Ni)	NA	11.9	0.01	0.02	µg/dry g					2	30	PASS
Selenium (Se)	NA	0.304	0.025	0.05	µg/dry g					4	30	PASS
Silver (Ag)	NA	0.294	0.01	0.02	µg/dry g					3	30	PASS
Zinc (Zn)	NA	132	0.025	0.05	µg/dry g					2	30	PASS
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19			Analyzed: 11-Jan-19		
Mercury (Hg)	NA	0.0946	1E-05	0.00002	µg/dry g					1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 60152-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14072		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	14000	1	5	µg/dry g	10100	139	42 - 124%	FAIL			1
Antimony (Sb)	NA	118	0.025	0.05	µg/dry g	145	81	10 - 137%	PASS			
Arsenic (As)	NA	175	0.025	0.05	µg/dry g	171	102	66 - 122%	PASS			
Beryllium (Be)	NA	102	0.025	0.05	µg/dry g	102	100	72 - 120%	PASS			
Cadmium (Cd)	NA	220	0.0025	0.005	µg/dry g	225	98	70 - 117%	PASS			
Chromium (Cr)	NA	160	0.0025	0.005	µg/dry g	144	111	66 -123%	PASS			
Copper (Cu)	NA	170	0.0025	0.005	µg/dry g	174	98	71 - 119%	PASS			
Iron (Fe)	NA	23500	1	5	µg/dry g	15000	157	33 - 155%	FAIL			1
Lead (Pb)	NA	111	0.0025	0.005	µg/dry g	111	100	71 - 129%	PASS			
Nickel (Ni)	NA	94.4	0.01	0.02	µg/dry g	98.3	96	65 - 121%	PASS			
Selenium (Se)	NA	213	0.025	0.05	µg/dry g	206	103	64 - 122%	PASS			
Silver (Ag)	NA	41.6	0.01	0.02	µg/dry g	45.5	91	66 - 124%	PASS			
Zinc (Zn)	NA	211	0.025	0.05	µg/dry g	207	102	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15089		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.5	1E-05	0.00002	µg/dry g	12	88	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 14268-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 14268-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00903	0.0018	0.0036	µmol/dry g	0.0089	0	101	80 - 120%	PASS				
Copper (Cu) - SEM	NA	0.0165	0.0062	0.0124	µmol/dry g	0.0157	0	105	80 - 120%	PASS				
Lead (Pb) - SEM	NA	0.00478	0.0002	0.0004	µmol/dry g	0.0048	0	99	80 - 120%	PASS				
Nickel (Ni) - SEM	NA	0.0167	0.0033	0.0066	µmol/dry g	0.017	0	98	80 - 120%	PASS				
Silver (Ag) - SEM	NA	0.000869	0.0047	0.0094	µmol/dry g	0.0009	0	94	80 - 120%	PASS				
Zinc (Zn) - SEM	NA	0.0158	0.0015	0.003	µmol/dry g	0.0153	0	103	80 - 120%	PASS				
Sample ID: 14268-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17004		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00912	0.0018	0.0036	µmol/dry g	0.0089	0	102	80 - 120%	PASS	1	25	PASS	
Copper (Cu) - SEM	NA	0.0163	0.0062	0.0124	µmol/dry g	0.0157	0	104	80 - 120%	PASS	1	25	PASS	
Lead (Pb) - SEM	NA	0.0047	0.0002	0.0004	µmol/dry g	0.0048	0	97	80 - 120%	PASS	2	25	PASS	
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	80 - 120%	PASS	1	25	PASS	
Silver (Ag) - SEM	NA	0.000903	0.0047	0.0094	µmol/dry g	0.0009	0	97	80 - 120%	PASS	3	25	PASS	
Zinc (Zn) - SEM	NA	0.0154	0.0015	0.003	µmol/dry g	0.0153	0	101	80 - 120%	PASS	2	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00903	0.0018	0.0036	µmol/dry g	0.0089	0	101	80 - 120%	PASS				
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	80 - 120%	PASS				
Lead (Pb) - SEM	NA	0.0047	0.0002	0.0004	µmol/dry g	0.0048	0	97	80 - 120%	PASS				
Nickel (Ni) - SEM	NA	0.0168	0.0033	0.0066	µmol/dry g	0.017	0	99	80 - 120%	PASS				
Silver (Ag) - SEM	NA	0.000861	0.0047	0.0094	µmol/dry g	0.0009	0	93	80 - 120%	PASS				
Zinc (Zn) - SEM	NA	0.0155	0.0015	0.003	µmol/dry g	0.0153	0	101	80 - 120%	PASS				
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00901	0.0018	0.0036	µmol/dry g	0.0089	0	101	80 - 120%	PASS	0	25	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	80 - 120%	PASS	0	25	PASS	
Lead (Pb) - SEM	NA	0.00473	0.0002	0.0004	µmol/dry g	0.0048	0	98	80 - 120%	PASS	1	25	PASS	
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	80 - 120%	PASS	0	25	PASS	
Silver (Ag) - SEM	NA	0.000866	0.0047	0.0094	µmol/dry g	0.0009	0	93	80 - 120%	PASS	0	25	PASS	
Zinc (Zn) - SEM	NA	0.0159	0.0015	0.003	µmol/dry g	0.0153	0	104	80 - 120%	PASS	3	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56814-MS1	**B18-10181**				**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**			
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	0.474	0.0018	0.0036	µmol/dry g	0.47	0	101	80 - 120%	PASS			
Copper (Cu) - SEM	NA	1.16	0.0062	0.0124	µmol/dry g	0.832	0.295	104	80 - 120%	PASS			
Lead (Pb) - SEM	NA	0.294	0.0002	0.0004	µmol/dry g	0.255	0.055	94	80 - 120%	PASS			
Nickel (Ni) - SEM	NA	0.91	0.0033	0.0066	µmol/dry g	0.901	0.0115	100	80 - 120%	PASS			
Silver (Ag) - SEM	NA	0.0549	0.0047	0.0094	µmol/dry g	0.049	0	112	80 - 120%	PASS			
Zinc (Zn) - SEM	NA	1.95	0.0015	0.003	µmol/dry g	0.809	1.19	94	80 - 120%	PASS			
Sample ID: 56814-MS2	**B18-10181**				**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**			
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	0.48	0.0018	0.0036	µmol/dry g	0.47	0	102	80 - 120%	PASS	1	25	PASS
Copper (Cu) - SEM	NA	1.16	0.0062	0.0124	µmol/dry g	0.832	0.295	104	80 - 120%	PASS	0	25	PASS
Lead (Pb) - SEM	NA	0.294	0.0002	0.0004	µmol/dry g	0.255	0.055	94	80 - 120%	PASS	0	25	PASS
Nickel (Ni) - SEM	NA	0.905	0.0033	0.0066	µmol/dry g	0.901	0.0115	99	80 - 120%	PASS	1	25	PASS
Silver (Ag) - SEM	NA	0.051	0.0047	0.0094	µmol/dry g	0.049	0	104	80 - 120%	PASS	7	25	PASS
Zinc (Zn) - SEM	NA	1.96	0.0015	0.003	µmol/dry g	0.809	1.19	95	80 - 120%	PASS	1	25	PASS
Sample ID: 56814-R2	**B18-10181**				**Matrix: Sediment**		**Sampled: 31-Jul-18**	**7:53**		**Received: 02-Aug-18**			
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19			Analyzed: 15-Jan-19			
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g						0	25	PASS
Copper (Cu) - SEM	NA	0.291	0.0062	0.0124	µmol/dry g						2	25	PASS
Lead (Pb) - SEM	NA	0.0549	0.0002	0.0004	µmol/dry g						0	25	PASS
Nickel (Ni) - SEM	NA	0.0118	0.0033	0.0066	µmol/dry g						5	25	PASS
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g						0	25	PASS
Zinc (Zn) - SEM	NA	1.19	0.0015	0.003	µmol/dry g						0	25	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Fipronil	NA	454	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS			
Fipronil Desulfinyl	NA	487	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS			
Fipronil Sulfide	NA	482	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS			
Fipronil Sulfone	NA	353	0.25	0.5	ng/dry g	500	0	71	60 - 140%	PASS			
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Fipronil	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	13	30	PASS
Fipronil Desulfinyl	NA	434	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	11	30	PASS
Fipronil Sulfide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS	10	30	PASS
Fipronil Sulfone	NA	429	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	19	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1110		Prepared: 15-Feb-19			Analyzed: 15-Feb-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56809-R2	**B18-10037**				**Matrix: Sediment**		**Sampled: 31-Jul-18 10:35**			**Received: 02-Aug-18**		
	Method: SM 2560 D				Batch ID: P-1110		Prepared: 15-Feb-19			Analyzed: 15-Feb-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 1.5	NA	0.2	0.1	0.1	%					40	20 FAIL	SL
Phi 10.0	NA	1.2	0.1	0.1	%					0	20 PASS	
Phi 10.5	NA	1.5	0.1	0.1	%					0	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	4.3	0.1	0.1	%					23	20 PASS	Q
Phi 2.5	NA	8.1	0.1	0.1	%					15	20 PASS	
Phi 3.0	NA	13.2	0.1	0.1	%					5	20 PASS	
Phi 3.5	NA	12.9	0.1	0.1	%					5	20 PASS	
Phi 4.0	NA	10.1	0.1	0.1	%					2	20 PASS	
Phi 4.5	NA	7.7	0.1	0.1	%					3	20 PASS	
Phi 5.0	NA	6.7	0.1	0.1	%					3	20 PASS	
Phi 5.5	NA	3.8	0.1	0.1	%					0	20 PASS	
Phi 6.0	NA	5.6	0.1	0.1	%					2	20 PASS	
Phi 6.5	NA	3.6	0.1	0.1	%					3	20 PASS	
Phi 7.0	NA	5.5	0.1	0.1	%					2	20 PASS	
Phi 7.5	NA	3.3	0.1	0.1	%					3	20 PASS	
Phi 8.0	NA	4.2	0.1	0.1	%					0	20 PASS	
Phi 8.5	NA	3.5	0.1	0.1	%					0	20 PASS	
Phi 9.0	NA	3.2	0.1	0.1	%					3	20 PASS	
Phi 9.5	NA	1.4	0.1	0.1	%					0	20 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB003	NA	29.9	0.1	0.2	ng/dry g	50	0	60	60 - 140% PASS			Q
PCB005	NA	33.7	0.1	0.2	ng/dry g	50	0	67	60 - 140% PASS			Q
PCB008	NA	36.8	0.017	0.2	ng/dry g	50	0	74	60 - 140% PASS			
PCB015	NA	47.3	0.1	0.2	ng/dry g	50	0	95	60 - 140% PASS			
PCB018	NA	42.9	0.029	0.2	ng/dry g	50	0	86	60 - 140% PASS			
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140% PASS			
PCB028	NA	46.8	0.023	0.2	ng/dry g	50	0	94	60 - 140% PASS			
PCB029	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB031	NA	51.5	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB033	NA	52.3	0.1	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140% PASS			
PCB044	NA	49.5	0.028	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB049	NA	49.7	0.036	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB052	NA	48.4	0.012	0.2	ng/dry g	50	0	97	60 - 140% PASS			
PCB056(060)	NA	50.3	0.1	0.2	ng/dry g	50	0	101	60 - 140% PASS			
PCB066	NA	54.8	0.027	0.2	ng/dry g	50	0	110	60 - 140% PASS			
PCB070	NA	57.6	0.023	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB074	NA	54.5	0.021	0.2	ng/dry g	50	0	109	60 - 140% PASS			
PCB077	NA	58.9	0.018	0.2	ng/dry g	50	0	118	60 - 140% PASS			
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB087	NA	53.9	0.081	0.2	ng/dry g	50	0	108	60 - 140% PASS			
PCB095	NA	48.2	0.1	0.2	ng/dry g	50	0	96	60 - 140% PASS			
PCB097	NA	57.1	0.1	0.2	ng/dry g	50	0	114	60 - 140% PASS			
PCB099	NA	49.2	0.028	0.2	ng/dry g	50	0	98	60 - 140% PASS			
PCB101	NA	50	0.027	0.2	ng/dry g	50	0	100	60 - 140% PASS			
PCB105	NA	44.5	0.047	0.2	ng/dry g	50	0	89	60 - 140% PASS			
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140% PASS			
PCB118	NA	51.3	0.069	0.2	ng/dry g	50	0	103	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.7	0.071	0.2	ng/dry g	50	0	101	60 - 140%	PASS			
PCB123	NA	48.6	0.018	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB126	NA	53.1	0.086	0.2	ng/dry g	50	0	106	60 - 140%	PASS			
PCB128	NA	55.5	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB137	NA	45.7	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	47.2	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB141	NA	43.9	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS			
PCB149	NA	44.7	0.092	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB151	NA	59.6	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS			
PCB153	NA	51.2	0.065	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB156	NA	65.6	0.089	0.2	ng/dry g	50	0	131	60 - 140%	PASS			
PCB157	NA	48.8	0.103	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB158	NA	47.6	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB167	NA	55.9	0.049	0.2	ng/dry g	50	0	112	60 - 140%	PASS			
PCB168+132	NA	88.4	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS			
PCB169	NA	76.4	0.116	0.2	ng/dry g	50	0	153	60 - 140%	FAIL			Q
PCB170	NA	58.8	0.118	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB174	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB177	NA	60.5	0.085	0.25	ng/dry g	50	0	121	60 - 140%	PASS			
PCB180	NA	67.4	0.154	0.25	ng/dry g	50	0	135	60 - 140%	PASS			
PCB183	NA	55.7	0.056	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB187	NA	59.1	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	73	0.109	0.25	ng/dry g	50	0	146	60 - 140%	FAIL			Q
PCB194	NA	82.7	0.164	0.25	ng/dry g	50	0	165	60 - 140%	FAIL			
PCB195	NA	66.3	0.093	0.25	ng/dry g	50	0	133	60 - 140%	PASS			
PCB199(200)	NA	57.5	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	61	0.12	0.25	ng/dry g	50	0	122	60 - 140%	PASS			
PCB206	NA	79.1	0.155	0.25	ng/dry g	50	0	158	60 - 140%	FAIL			
PCB209	NA	67.3	0.12	0.25	ng/dry g	50	0	135	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 05-Feb-19		
PCB003	NA	34.8	0.1	0.2	ng/dry g	50	0	70	60 - 140%	PASS	15	30	PASS	
PCB005	NA	38.2	0.1	0.2	ng/dry g	50	0	76	60 - 140%	PASS	13	30	PASS	
PCB008	NA	39.2	0.017	0.2	ng/dry g	50	0	78	60 - 140%	PASS	5	30	PASS	
PCB015	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%	PASS	3	30	PASS	
PCB018	NA	46.1	0.029	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS	
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	3	30	PASS	
PCB028	NA	47	0.023	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB029	NA	52.9	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS	
PCB031	NA	52.2	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS	
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS	
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140%	PASS	0	30	PASS	
PCB044	NA	51.1	0.028	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30	PASS	
PCB049	NA	50.5	0.036	0.2	ng/dry g	50	0	101	60 - 140%	PASS	2	30	PASS	
PCB052	NA	51.7	0.012	0.2	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS	
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	3	30	PASS	
PCB066	NA	54.9	0.027	0.2	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS	
PCB070	NA	57.5	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	0	30	PASS	
PCB074	NA	54.6	0.021	0.2	ng/dry g	50	0	109	60 - 140%	PASS	0	30	PASS	
PCB077	NA	60.3	0.018	0.2	ng/dry g	50	0	121	60 - 140%	PASS	3	30	PASS	
PCB081	NA	60.2	0.084	0.2	ng/dry g	50	0	120	60 - 140%	PASS	4	30	PASS	
PCB087	NA	57.2	0.081	0.2	ng/dry g	50	0	114	60 - 140%	PASS	5	30	PASS	
PCB095	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB097	NA	59.8	0.1	0.2	ng/dry g	50	0	120	60 - 140%	PASS	5	30	PASS	
PCB099	NA	49.9	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PCB101	NA	51.5	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS	
PCB105	NA	43.7	0.047	0.2	ng/dry g	50	0	87	60 - 140%	PASS	2	30	PASS	
PCB110	NA	53.7	0.074	0.2	ng/dry g	50	0	107	60 - 140%	PASS	2	30	PASS	
PCB114	NA	53.1	0.072	0.2	ng/dry g	50	0	106	60 - 140%	PASS	4	30	PASS	
PCB118	NA	51.9	0.069	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.3	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	3	30	PASS	
PCB126	NA	54.6	0.086	0.2	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS	
PCB128	NA	54.7	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	2	30	PASS	
PCB137	NA	46.2	0.1	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS	
PCB138	NA	46.9	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB141	NA	44	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.2	0.092	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB151	NA	62	0.073	0.2	ng/dry g	50	0	124	60 - 140%	PASS	4	30	PASS	
PCB153	NA	49.3	0.065	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB156	NA	64.5	0.089	0.2	ng/dry g	50	0	129	60 - 140%	PASS	2	30	PASS	
PCB157	NA	48	0.103	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB158	NA	47.7	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB167	NA	57.2	0.049	0.2	ng/dry g	50	0	114	60 - 140%	PASS	2	30	PASS	
PCB168+132	NA	87.7	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS	0	30	PASS	
PCB169	NA	73.8	0.116	0.2	ng/dry g	50	0	148	60 - 140%	FAIL	3	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB174	NA	53.6	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB177	NA	59.9	0.085	0.25	ng/dry g	50	0	120	60 - 140%	PASS	1	30	PASS	
PCB180	NA	65.5	0.154	0.25	ng/dry g	50	0	131	60 - 140%	PASS	3	30	PASS	
PCB183	NA	55.8	0.056	0.25	ng/dry g	50	0	112	60 - 140%	PASS	1	30	PASS	
PCB187	NA	59.5	0.168	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB189	NA	72.2	0.109	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	1	30	PASS	Q
PCB194	NA	80.3	0.164	0.25	ng/dry g	50	0	161	60 - 140%	FAIL	2	30	PASS	
PCB195	NA	67.1	0.093	0.25	ng/dry g	50	0	134	60 - 140%	PASS	1	30	PASS	
PCB199(200)	NA	56	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS	
PCB201	NA	43.1	0.104	0.25	ng/dry g	50	0	86	60 - 140%	PASS	3	30	PASS	
PCB203	NA	56.7	0.12	0.25	ng/dry g	50	0	113	60 - 140%	PASS	8	30	PASS	
PCB206	NA	73.5	0.155	0.25	ng/dry g	50	0	147	60 - 140%	FAIL	7	30	PASS	
PCB209	NA	62.5	0.12	0.25	ng/dry g	50	0	125	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56807-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB008	NA	29.1	0.017	0.2	ng/dry g	22.3		130	60 - 140% PASS			
PCB018	NA	56.6	0.029	0.2	ng/dry g	51		111	60 - 140% PASS			
PCB028	NA	88.9	0.023	0.2	ng/dry g	80.8		110	60 - 140% PASS			
PCB044	NA	44.6	0.028	0.2	ng/dry g	60.2		74	60 - 140% PASS			
PCB049	NA	41.1	0.036	0.2	ng/dry g	53		78	60 - 140% PASS			
PCB052	NA	71.1	0.012	0.2	ng/dry g	79.4		90	60 - 140% PASS			
PCB066	NA	52.8	0.027	0.2	ng/dry g	71.9		73	60 - 140% PASS			
PCB087	NA	20.7	0.081	0.2	ng/dry g	29.9		69	60 - 140% PASS			
PCB099	NA	22.9	0.028	0.2	ng/dry g	37.5		61	60 - 140% PASS			
PCB101	NA	53.2	0.027	0.2	ng/dry g	73.4		72	60 - 140% PASS			
PCB105	NA	10.1	0.047	0.2	ng/dry g	24.5		41	60 - 140% FAIL			1
PCB110	NA	45.3	0.074	0.2	ng/dry g	63.5		71	60 - 140% PASS			
PCB118	NA	30.9	0.069	0.2	ng/dry g	58		53	60 - 140% FAIL			1
PCB128	NA	5.33	0.081	0.2	ng/dry g	8.5		63	60 - 140% PASS			
PCB138	NA	48.5	0.057	0.2	ng/dry g	62.1		78	60 - 140% PASS			
PCB149	NA	34.7	0.092	0.2	ng/dry g	49.7		70	60 - 140% PASS			
PCB151	NA	14.1	0.073	0.2	ng/dry g	16.9		83	60 - 140% PASS			
PCB153	NA	54.7	0.065	0.2	ng/dry g	74		74	60 - 140% PASS			
PCB156	NA	2.65	0.089	0.2	ng/dry g	6.5		41	60 - 140% FAIL			1
PCB170	NA	19.2	0.118	0.25	ng/dry g	22.6		85	60 - 140% PASS			
PCB174	NA	16.4	0.12	0.25	ng/dry g	16		102	60 - 140% PASS			
PCB180	NA	33.1	0.154	0.25	ng/dry g	44.3		75	60 - 140% PASS			
PCB183	NA	10.4	0.056	0.25	ng/dry g	12.2		85	60 - 140% PASS			
PCB187	NA	24	0.168	0.25	ng/dry g	25.1		96	60 - 140% PASS			
PCB194	NA	11.1	0.164	0.25	ng/dry g	11.2		99	60 - 140% PASS			
PCB195	NA	3.4	0.093	0.25	ng/dry g	3.8		89	60 - 140% PASS			
PCB206	NA	6.35	0.155	0.25	ng/dry g	9.2		69	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	103			% Recovery	100	103	63 - 146%	PASS			
(FTBDE)	NA	100			% Recovery	100	100	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS		
(FTBDE)	NA	97			% Recovery	100	0	97	53 - 138%	PASS		
PBDE017	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE028	NA	54.7	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS		
PBDE047	NA	52.9	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE066	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE085	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS		
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE100	NA	51.7	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE138	NA	44.2	0.05	0.1	ng/dry g	50	0	88	60 - 140%	PASS		
PBDE153	NA	48.7	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE154	NA	47.1	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS		
PBDE190	NA	44.5	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS		
PBDE209	NA	238	0.05	0.1	ng/dry g	250	0	95	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	0	30	PASS
(FTBDE)	NA	103			% Recovery	100	0	103	53 - 138%	PASS	6	30	PASS
PBDE017	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	6	30	PASS
PBDE028	NA	55.9	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS
PBDE047	NA	54.6	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS
PBDE049	NA	58.9	0.05	0.1	ng/dry g	50	0	118	60 - 140%	PASS	23	30	PASS
PBDE066	NA	55.1	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	4	30	PASS
PBDE085	NA	51.6	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS	1	30	PASS
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	0	30	PASS
PBDE100	NA	52.2	0.05	0.1	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS
PBDE138	NA	44.3	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS	1	30	PASS
PBDE153	NA	50.5	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30	PASS
PBDE154	NA	51	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS	8	30	PASS
PBDE183	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS	8	30	PASS
PBDE190	NA	47.9	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	8	30	PASS
PBDE209	NA	253	0.05	0.1	ng/dry g	250	0	101	60 - 140%	PASS	6	30	PASS
Sample ID: 56807-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	116			% Recovery	100		116	60 - 140%	PASS			
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS			
PBDE047	NA	2.08	0.05	0.1	ng/dry g	1.72		121	60 - 140%	PASS			
PBDE099	NA	2.61	0.05	0.1	ng/dry g	2		130	60 - 140%	PASS			
PBDE100	NA	0.425	0.05	0.1	ng/dry g	0.4		106	60 - 140%	PASS			
PBDE153	NA	4.6	0.05	0.1	ng/dry g	6.44		71	60 - 140%	PASS			
PBDE154	NA	1.47	0.05	0.1	ng/dry g	1.06		139	60 - 140%	PASS			
PBDE183	NA	19.7	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS			
PBDE209	NA	58.4	0.05	0.1	ng/dry g	93.5		62	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	75	0	0	% Recovery	100	75	50 - 112%	PASS			
(d10-Phenanthrene)	NA	75	0	0	% Recovery	100	75	59 - 121%	PASS			
(d12-Chrysene)	NA	97	0	0	% Recovery	100	97	52 - 144%	PASS			
(d12-Perylene)	NA	90	0	0	% Recovery	100	90	50 - 150%	PASS			
(d8-Naphthalene)	NA	86	0	0	% Recovery	100	86	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	76	0	0	% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	77	0	0	% Recovery	100	77	59 - 121%	PASS			
(d12-Chrysene)	NA	81	0	0	% Recovery	100	81	52 - 144%	PASS			
(d12-Perylene)	NA	75	0	0	% Recovery	100	75	50 - 150%	PASS			
(d8-Naphthalene)	NA	87	0	0	% Recovery	100	87	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	400	0.059	0.5	ng/dry g	500	80	60 - 140%	PASS			
1-Methylnaphthalene	NA	369	0.084	0.5	ng/dry g	500	74	60 - 140%	PASS			
1-Methylphenanthrene	NA	431	0.076	0.5	ng/dry g	500	86	60 - 140%	PASS			
2,6-Dimethylnaphthalene	NA	387	0.065	0.5	ng/dry g	500	77	60 - 140%	PASS			
2-Methylnaphthalene	NA	380	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS			
Acenaphthene	NA	387	0.078	0.5	ng/dry g	500	77	60 - 140%	PASS			
Acenaphthylene	NA	385	0.058	0.5	ng/dry g	500	77	60 - 140%	PASS			
Anthracene	NA	334	0.046	0.5	ng/dry g	500	67	60 - 140%	PASS			
Benz[a]anthracene	NA	383	0.107	0.5	ng/dry g	500	77	60 - 140%	PASS			
Benzo[a]pyrene	NA	378	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS			
Benzo[b]fluoranthene	NA	388	0.063	0.5	ng/dry g	500	78	60 - 140%	PASS			
Benzo[e]pyrene	NA	393	0.098	0.5	ng/dry g	500	79	60 - 140%	PASS			
Benzo[g,h,i]perylene	NA	394	0.093	0.5	ng/dry g	500	79	60 - 140%	PASS			
Benzo[k]fluoranthene	NA	398	0.111	0.5	ng/dry g	500	80	60 - 140%	PASS			
Biphenyl	NA	380	0.092	0.5	ng/dry g	500	76	60 - 140%	PASS			
Chrysene	NA	409	0.067	0.5	ng/dry g	500	82	60 - 140%	PASS			
Dibenz[a,h]anthracene	NA	389	0.106	0.5	ng/dry g	500	78	60 - 140%	PASS			
Dibenzothiophene	NA	399	0.2	0.5	ng/dry g	500	80	60 - 140%	PASS			
Fluoranthene	NA	435	0.035	0.5	ng/dry g	500	87	60 - 140%	PASS			
Fluorene	NA	406	0.068	0.5	ng/dry g	500	81	60 - 140%	PASS			
Indeno[1,2,3-cd]pyrene	NA	379	0.087	0.5	ng/dry g	500	76	60 - 140%	PASS			
Naphthalene	NA	361	0.187	0.5	ng/dry g	500	72	60 - 140%	PASS			
Perylene	NA	386	0.114	0.5	ng/dry g	500	77	60 - 140%	PASS			
Phenanthrene	NA	429	0.074	0.5	ng/dry g	500	86	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	438	0.048	0.5	ng/dry g	500		88	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19					Analyzed: 19-Mar-19		
(d10-Acenaphthene)	NA	86	0	0	% Recovery	100	86	50 - 112%	PASS		12	30	PASS	
(d10-Phenanthrene)	NA	79	0	0	% Recovery	100	79	59 - 121%	PASS		3	30	PASS	
(d12-Chrysene)	NA	83	0	0	% Recovery	100	83	52 - 144%	PASS		2	30	PASS	
(d12-Perylene)	NA	76	0	0	% Recovery	100	76	50 - 150%	PASS		1	30	PASS	
(d8-Naphthalene)	NA	109	0	0	% Recovery	100	109	31 - 106%	FAIL		22	30	PASS	
1,6,7-Trimethylnapthalene	NA	431	0.059	0.5	ng/dry g	500	86	60 - 140%	PASS		7	30	PASS	
1-Methylnaphthalene	NA	440	0.084	0.5	ng/dry g	500	88	60 - 140%	PASS		17	30	PASS	
1-Methylphenanthrene	NA	435	0.076	0.5	ng/dry g	500	87	60 - 140%	PASS		1	30	PASS	
2,6-Dimethylnaphthalene	NA	445	0.065	0.5	ng/dry g	500	89	60 - 140%	PASS		14	30	PASS	
2-Methylnaphthalene	NA	447	0.106	0.5	ng/dry g	500	89	60 - 140%	PASS		16	30	PASS	
Acenaphthene	NA	431	0.078	0.5	ng/dry g	500	86	60 - 140%	PASS		11	30	PASS	
Acenaphthylene	NA	428	0.058	0.5	ng/dry g	500	86	60 - 140%	PASS		11	30	PASS	
Anthracene	NA	364	0.046	0.5	ng/dry g	500	73	60 - 140%	PASS		9	30	PASS	
Benz[a]anthracene	NA	387	0.107	0.5	ng/dry g	500	77	60 - 140%	PASS		0	30	PASS	
Benzo[a]pyrene	NA	373	0.106	0.5	ng/dry g	500	75	60 - 140%	PASS		1	30	PASS	
Benzo[b]fluoranthene	NA	381	0.063	0.5	ng/dry g	500	76	60 - 140%	PASS		3	30	PASS	
Benzo[e]pyrene	NA	378	0.098	0.5	ng/dry g	500	76	60 - 140%	PASS		4	30	PASS	
Benzo[g,h,i]perylene	NA	387	0.093	0.5	ng/dry g	500	77	60 - 140%	PASS		3	30	PASS	
Benzo[k]fluoranthene	NA	363	0.111	0.5	ng/dry g	500	73	60 - 140%	PASS		8	30	PASS	
Biphenyl	NA	433	0.092	0.5	ng/dry g	500	87	60 - 140%	PASS		13	30	PASS	
Chrysene	NA	404	0.067	0.5	ng/dry g	500	81	60 - 140%	PASS		1	30	PASS	
Dibenz[a,h]anthracene	NA	378	0.106	0.5	ng/dry g	500	76	60 - 140%	PASS		3	30	PASS	
Dibenzothiophene	NA	404	0.2	0.5	ng/dry g	500	81	60 - 140%	PASS		1	30	PASS	
Fluoranthene	NA	390	0.035	0.5	ng/dry g	500	78	60 - 140%	PASS		11	30	PASS	
Fluorene	NA	428	0.068	0.5	ng/dry g	500	86	60 - 140%	PASS		6	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	370	0.087	0.5	ng/dry g	500	74	60 - 140%	PASS		3	30	PASS	
Naphthalene	NA	448	0.187	0.5	ng/dry g	500	90	60 - 140%	PASS		22	30	PASS	
Perylene	NA	380	0.114	0.5	ng/dry g	500	76	60 - 140%	PASS		1	30	PASS	
Phenanthrene	NA	424	0.074	0.5	ng/dry g	500	85	60 - 140%	PASS		1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	385	0.048	0.5	ng/dry g	500		77	60 - 140%	PASS	13	30	PASS	
Sample ID: 56807-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21040			Prepared: 13-Mar-19			Analyzed: 19-Mar-19			
(d10-Acenaphthene)	NA	119	0	0	% Recovery	100		119	44 - 144%	PASS				
(d10-Phenanthrene)	NA	85	0	0	% Recovery	100		85	60 - 134%	PASS				
(d12-Chrysene)	NA	115	0	0	% Recovery	100		115	27 - 158%	PASS				
(d12-Perylene)	NA	93	0	0	% Recovery	100		93	17 - 160%	PASS				
(d8-Naphthalene)	NA	58	0	0	% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.806	0.106	0.5	ug/dry g	0.74		109	60 - 140%	PASS				
Benz[a]anthracene	NA	4.29	0.107	0.5	ug/dry g	4.72		91	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.99	0.106	0.5	ug/dry g	4.3		70	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	3.37	0.063	0.5	ug/dry g	3.87		87	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.1	0.098	0.5	ug/dry g	3.28		95	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.55	0.093	0.5	ug/dry g	2.84		90	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4.39		41	60 - 140%	FAIL				1
Chrysene	NA	5.95	0.067	0.5	ug/dry g	4.86		122	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.751	0.106	0.5	ug/dry g	0.924		81	60 - 140%	PASS				
Fluoranthene	NA	6.09	0.035	0.5	ug/dry g	8.92		68	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2.78		90	60 - 140%	PASS				
Perylene	NA	0.74	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	4.54	0.074	0.5	ug/dry g	5.27		86	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9.7		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56805-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 56805-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	634	0.28	0.5	ng/dry g	500	0	127	60 - 140%		PASS	
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%		PASS	
Cyfluthrin	NA	484	0.25	0.5	ng/dry g	500	0	97	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	571	0.23	0.5	ng/dry g	500	0	114	60 - 140%		PASS	
Cypermethrin	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	600	0.21	0.5	ng/dry g	500	0	120	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	413	0.25	0.5	ng/dry g	500	0	83	60 - 140%		PASS	
Esfenvalerate	NA	425	0.25	0.5	ng/dry g	500	0	85	60 - 140%		PASS	
Fenvalerate	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%		PASS	
Fluvalinate	NA	388	0.23	0.5	ng/dry g	500	0	78	60 - 140%		PASS	
Permethrin, cis-	NA	154	0.17	0.5	ng/dry g	134	0	115	60 - 140%		PASS	
Permethrin, trans-	NA	394	0.22	0.5	ng/dry g	358	0	110	60 - 140%		PASS	
Prallethrin	NA	531	0.28	0.5	ng/dry g	500	0	106	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56805-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 31-Jan-19		
Allethrin	NA	594	0.28	0.5	ng/dry g	500	0	119	60 - 140%	PASS	7	30	PASS	
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%	PASS	0	30	PASS	
Cyfluthrin	NA	609	0.25	0.5	ng/dry g	500	0	122	60 - 140%	PASS	23	30	PASS	
Cyhalothrin, Total Lambda	NA	632	0.23	0.5	ng/dry g	500	0	126	60 - 140%	PASS	10	30	PASS	
Cypermethrin	NA	593	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	22	30	PASS	
Danitol (Fenpropathrin)	NA	598	0.21	0.5	ng/dry g	500	0	120	60 - 140%	PASS	0	30	PASS	
Deltamethrin/Tralomethrin	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	15	30	PASS	
Esfenvalerate	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140%	PASS	14	30	PASS	
Fenvalerate	NA	539	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	17	30	PASS	
Fluvalinate	NA	460	0.23	0.5	ng/dry g	500	0	92	60 - 140%	PASS	16	30	PASS	
Permethrin, cis-	NA	171	0.17	0.5	ng/dry g	134	0	128	60 - 140%	PASS	11	30	PASS	
Permethrin, trans-	NA	452	0.22	0.5	ng/dry g	358	0	126	60 - 140%	PASS	14	30	PASS	
Prallethrin	NA	548	0.28	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSES REQUESTED: SEE ATTACHED LIST OF ANALYTES
	7/31/2018	1035	sediment	B18-10037	3	X
	7/31/2018	1125	sediment	B18-10038	3	X
	7/31/2018	1250	sediment	B18-10041	3	X
	7/31/2018	0945	sediment	B18-10179	3	X
	7/31/2018	0845	sediment	B18-10180	3	X
	7/31/2018	0753	sediment	B18-10181	3	X
	8/1/2018	1215	sediment	B18-10042	3	X
	8/1/2018	0755	sediment	B18-10085	3	X
	8/1/2018	0843	sediment	B18-10086	3	X
	8/1/2018	1043	sediment	B18-10087	3	X
	8/1/2018	0925	sediment	B18-10088	3	X

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	8/2/2018 0918	[signature] 8/2/18 0918
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:	
Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

[a] Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

[b] USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

[c] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

[d] Includes cis-chlordane, trans-chlordane, o,p'-DDT, p,p'-DDT, o,p'-DDD, p,p'-DDD, o,p'-DDE, p,p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

[e] Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

[f] Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194,195, 200, 201, 203, 206, and 209.

[g] Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-014

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 8/2/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 11	☐ BLUE ☑ WET ☐ DRY
Start 6:00 End 11:15 ☐ Other:	☐ Other :	☐ None 1.1°C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 07, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-016

Dear Chris,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 8/15/2018. A total of 4 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-016

2018 Regional Harbor Monitoring Program Total Samples: 4

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
57537	B18-10040		8/14/2018	14:00	Sediment
57538	B18-10043		8/14/2018	10:30	Sediment
57539	B18-10044		8/14/2018	12:10	Sediment
57540	B18-20043		8/14/2018	11:30	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 1807003-016
Client: Wood Environment & Infrastructure Solutions, Inc.
Project: 2018 Regional Harbor Monitoring Program

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	75			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	73			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	102			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	69			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	ND	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	23-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	60			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	54			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	78			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	56			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.56	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	2.25	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	23-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**12:10**	**Received: 15-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	62			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	77			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	57			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.56	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	23-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**11:30**	**Received: 15-Aug-18**	
(PCB030)	EPA 8270D	% Recovery	61			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	59			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	74			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	55			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	ND	0.2	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	ND	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	1.38	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	ND	0.223	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	ND	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	ND	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	ND	0.192	0.5	NA		O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	23-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	ND	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	9.01	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	5.41	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19
Percent Solids	SM 2540 B	%	73.9	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.01	0.01	0.01	NA	J	O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	0.15	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	176	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	324	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	11.7	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19
Percent Solids	SM 2540 B	%	49.6	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.12	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.45	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	400	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**12:10**	**Received: 15-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	284	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	12.4	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19
Percent Solids	SM 2540 B	%	46.7	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.16	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.73	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	565	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled: 14-Aug-18 11:30**			**Received: 15-Aug-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	221	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	23.5	0.02	0.03	NA		C-39072	03-Jan-19	03-Jan-19
Percent Solids	SM 2540 B	%	47.7	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.14	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.62	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	417	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**14:00**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	8900	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.0821	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	1.3	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	33.4	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.111	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.0916	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	17.3	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	10.4	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	11000	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	2.82	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0138	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	4.2	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.0904	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.12	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	36.5	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**10:30**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	30800	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.214	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.23	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	67.4	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.538	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.483	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	32.2	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	54.3	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	26400	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	17	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0754	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	11.1	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.361	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.298	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	156	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**12:10**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	52300	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.227	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	9.97	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	111	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.943	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.692	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	57.2	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	85.2	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	44100	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	24.4	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.131	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	19.7	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.63	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.491	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	220	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**11:30**		**Received: 15-Aug-18**	
Aluminum (Al)	EPA 6020	µg/dry g	29900	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.214	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.27	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	60	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.58	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.416	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	31.7	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	54.4	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	26000	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	16.6	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0795	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	11.5	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.389	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.342	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	150	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0217	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.00765	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	ND	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.302	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0257	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0283	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00935	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.858	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**12:10**	**Received: 15-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0344	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0373	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0133	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.04	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**11:30**		**Received: 15-Aug-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	ND	0.0018	0.0036	NA		E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0603	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.0388	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.0155	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	1.06	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**12:10**	**Received: 15-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**11:30**	**Received: 15-Aug-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**14:00**	**Received: 15-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	1.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	10.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.1	0.1	0.1	NA	J	P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	19.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	17.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	15.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	13.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	7.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	3.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	0.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	0.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	0.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	0.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**		**Matrix: Sediment**			**Sampled: 14-Aug-18 10:30**		**Received: 15-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	23.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	17.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	7.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	5.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	5.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	3.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	2.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	3.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	2.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	3.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	2.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	1.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**		**Matrix: Sediment**			**Sampled: 14-Aug-18 12:10**		**Received: 15-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	10.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	22.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	0.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	6.8	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	5.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	8.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	5.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	7.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	4.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	5.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	3.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**		**Matrix: Sediment**			**Sampled: 14-Aug-18 11:30**		**Received: 15-Aug-18**		
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 1.5	SM 2560 D	%	18.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.0	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 10.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.0	SM 2560 D	%	19.6	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 2.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.0	SM 2560 D	%	2.5	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 3.5	SM 2560 D	%	6.3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.0	SM 2560 D	%	6.4	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 4.5	SM 2560 D	%	5.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.0	SM 2560 D	%	4.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 5.5	SM 2560 D	%	2.7	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 6.5	SM 2560 D	%	3.1	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 7.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.0	SM 2560 D	%	3.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 8.5	SM 2560 D	%	3.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.0	SM 2560 D	%	2.9	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19
Phi 9.5	SM 2560 D	%	1.2	0.1	0.1	NA		P-1107	09-Jan-19	09-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**14:00**	**Received: 15-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	ND	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	ND	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	ND	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	ND	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	ND	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**10:30**	**Received: 15-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	0.233	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	0.439	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.444	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.566	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	0.411	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.408	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.693	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.528	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.781	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.141	0.074	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.153	0.094	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	0.258	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.172	0.168	0.25	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**12:10**	**Received: 15-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	0.2	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	0.234	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	0.316	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.472	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.629	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	0.439	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.345	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.747	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.566	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.856	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.26	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.302	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	ND	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.266	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**		**Matrix: Sediment**			**Sampled: 14-Aug-18 11:30**		**Received: 15-Aug-18**		
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	ND	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	0.276	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.407	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.41	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	0.286	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.338	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.532	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.421	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	ND	0.073	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.781	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	0.224	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	0.145	0.094	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	0.314	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	ND	0.056	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.237	0.168	0.25	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**		**Matrix: Sediment**			**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	107			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	105			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**		**Matrix: Sediment**			**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	91			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	86			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.334	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	1.56	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**12:10**	**Received: 15-Aug-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	103			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	90			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	19.5	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**11:30**	**Received: 15-Aug-18**		
(DFPBDE)	EPA 8270D-NCI	% Recovery	91			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	86			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	0.446	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**		**Matrix: Sediment**			**Sampled: 14-Aug-18**		**14:00**	**Received: 15-Aug-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	75			NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	80			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	88			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	89			NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	73			NA		O-21040	13-Mar-19	20-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	1.54106	0.059	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	0.9780643	0.084	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	0.9760668	0.076	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	0.9126038	0.065	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	1.891736	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	ND	0.078	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	ND	0.058	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	0.4710556	0.046	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	0.4078039	0.107	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	0.5012149	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	0.6717826	0.063	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	0.7370352	0.098	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	0.7124746	0.093	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	0.6371861	0.111	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.2834148	0.092	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	0.7738923	0.067	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	0.2121702	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	0.4588032	0.2	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	2.03755	0.035	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	0.8210654	0.068	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	0.5983424	0.087	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	1.544235	0.187	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	ND	0.114	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	4.813703	0.074	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	1.787902	0.048	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	64			NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	65			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	76			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	73			NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	73			NA		O-21040	13-Mar-19	20-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.99036	0.059	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	2.324625	0.084	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.113301	0.076	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.002984	0.065	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.297661	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.5443842	0.078	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.9490548	0.058	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.13437	0.046	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	12.79955	0.107	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	22.64412	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	22.47953	0.063	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	21.50939	0.098	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	29.29789	0.093	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	21.75439	0.111	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.6808496	0.092	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	23.30638	0.067	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.580828	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.502037	0.2	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	30.62514	0.035	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.084437	0.068	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	23.17154	0.087	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.634394	0.187	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	7.801467	0.114	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	16.34855	0.074	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	35.09925	0.048	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	60			NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	63			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	80			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	74			NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	64			NA		O-21040	13-Mar-19	20-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.667619	0.059	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.288517	0.084	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.026266	0.076	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.826356	0.065	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.630928	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.6023393	0.078	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.021091	0.058	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.267913	0.046	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	12.6008	0.107	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	22.68589	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	23.47775	0.063	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	22.92829	0.098	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	31.24248	0.093	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	21.99092	0.111	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.6722192	0.092	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	24.20981	0.067	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.555481	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.502814	0.2	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	31.17818	0.035	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.670893	0.068	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	22.83958	0.087	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.406162	0.187	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	8.022166	0.114	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	15.02331	0.074	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	36.56498	0.048	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**			**Matrix: Sediment**		**Sampled:**			**Received:**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	64			NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	68			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	82			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	79			NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	69			NA		O-21040	13-Mar-19	20-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.809331	0.059	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.852006	0.084	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.156736	0.076	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	1.927649	0.065	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	3.295014	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.4131123	0.078	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	0.8162883	0.058	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	2.099126	0.046	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	14.87139	0.107	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	24.64431	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	22.78465	0.063	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	21.96691	0.098	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	28.84531	0.093	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	23.67522	0.111	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.7100799	0.092	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	24.76834	0.067	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	4.401746	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	1.396281	0.2	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	36.66845	0.035	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	1.708983	0.068	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	24.24481	0.087	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	3.5898	0.187	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	7.522212	0.114	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	17.55809	0.074	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	39.58696	0.048	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57537-R1	**B18-10040**			**Matrix: Sediment**		**Sampled: 14-Aug-18**	**14:00**		**Received: 15-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57538-R1	**B18-10043**			**Matrix: Sediment**		**Sampled: 14-Aug-18**		**10:30**	**Received: 15-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	2.62	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.19	0.21	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57539-R1	**B18-10044**		**Matrix: Sediment**			**Sampled: 14-Aug-18 12:10**			**Received: 15-Aug-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	4.05	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.86	0.21	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 57540-R1	**B18-20043**		**Matrix: Sediment**			**Sampled: 14-Aug-18**	**11:30**	**Received: 15-Aug-18**		
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	2.88	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	1.3	0.21	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	ND	0.17	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	ND	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 09-Jan-19**			**Analyzed: 09-Jan-19**	
57533-B1	QAQC Procedural Blank	C-41080	ND	0.05	0.1	mg/dry kg								
57533-BS1	QAQC Procedural Blank	C-41080	20.6	0.05	0.1	mg/dry kg	23.3	0	88	80 - 120%	PASS			
57533-BS2	QAQC Procedural Blank	C-41080	20.8	0.05	0.1	mg/dry kg	23.3	0	89	80 - 120%	PASS	1	25 PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**	
57533-B1	QAQC Procedural Blank	C-39072	ND	0.02	0.03	mg/dry kg								
57533-BS1	QAQC Procedural Blank	C-39072	1.59	0.02	0.03	mg/dry kg	1.59	0	100	80 - 120%	PASS			
57533-BS2	QAQC Procedural Blank	C-39072	1.67	0.02	0.03	mg/dry kg	1.59	0	105	80 - 120%	PASS	5	25 PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
57533-B1	QAQC Procedural Blank	C-35151	ND	0.1	0.1	%								
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
57533-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
57533-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
57535-CRM1	QAQC CRM - SRM 1944	O-19054	4.71	0.01	0.01	% dry weight	4.4		107	80 - 120%	PASS			
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**				**Prepared: 24-Dec-18**			**Analyzed: 08-Feb-19**	
57533-B1	QAQC Procedural Blank	E-14073	ND	0.016	0.05	µg/dry g								
57533-BS1	QAQC Procedural Blank	E-14073	48.3	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS			
57533-BS2	QAQC Procedural Blank	E-14073	48.6	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS	0	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	75			% Recovery	100	75	50 - 112%	PASS			
(d10-Phenanthrene)	NA	75			% Recovery	100	75	59 - 121%	PASS			
(d12-Chrysene)	NA	97			% Recovery	100	97	52 - 144%	PASS			
(d12-Perylene)	NA	90			% Recovery	100	90	50 - 150%	PASS			
(d8-Naphthalene)	NA	86			% Recovery	100	86	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	76			% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	77			% Recovery	100	77	59 - 121%	PASS			
(d12-Chrysene)	NA	81			% Recovery	100	81	52 - 144%	PASS			
(d12-Perylene)	NA	75			% Recovery	100	75	50 - 150%	PASS			
(d8-Naphthalene)	NA	87			% Recovery	100	87	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	40	0.059	0.5	ng/dry g	50	80	60 - 140%	PASS			
1-Methylnaphthalene	NA	36.9	0.084	0.5	ng/dry g	50	74	60 - 140%	PASS			
1-Methylphenanthrene	NA	43.1	0.076	0.5	ng/dry g	50	86	60 - 140%	PASS			
2,6-Dimethylnaphthalene	NA	38.7	0.065	0.5	ng/dry g	50	77	60 - 140%	PASS			
2-Methylnaphthalene	NA	38	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS			
Acenaphthene	NA	38.7	0.078	0.5	ng/dry g	50	77	60 - 140%	PASS			
Acenaphthylene	NA	38.5	0.058	0.5	ng/dry g	50	77	60 - 140%	PASS			
Anthracene	NA	33.4	0.046	0.5	ng/dry g	50	67	60 - 140%	PASS			
Benz[a]anthracene	NA	38.3	0.107	0.5	ng/dry g	50	77	60 - 140%	PASS			
Benzo[a]pyrene	NA	37.8	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS			
Benzo[b]fluoranthene	NA	38.8	0.063	0.5	ng/dry g	50	78	60 - 140%	PASS			
Benzo[e]pyrene	NA	39.3	0.098	0.5	ng/dry g	50	79	60 - 140%	PASS			
Benzo[g,h,i]perylene	NA	39.4	0.093	0.5	ng/dry g	50	79	60 - 140%	PASS			
Benzo[k]fluoranthene	NA	39.8	0.111	0.5	ng/dry g	50	80	60 - 140%	PASS			
Biphenyl	NA	38	0.092	0.5	ng/dry g	50	76	60 - 140%	PASS			
Chrysene	NA	40.9	0.067	0.5	ng/dry g	50	82	60 - 140%	PASS			
Dibenz[a,h]anthracene	NA	38.9	0.106	0.5	ng/dry g	50	78	60 - 140%	PASS			
Dibenzothiophene	NA	39.9	0.2	0.5	ng/dry g	50	80	60 - 140%	PASS			
Fluoranthene	NA	43.5	0.035	0.5	ng/dry g	50	87	60 - 140%	PASS			
Fluorene	NA	40.6	0.068	0.5	ng/dry g	50	81	60 - 140%	PASS			
Indeno[1,2,3-cd]pyrene	NA	37.9	0.087	0.5	ng/dry g	50	76	60 - 140%	PASS			
Naphthalene	NA	36.1	0.187	0.5	ng/dry g	50	72	60 - 140%	PASS			
Perylene	NA	38.6	0.114	0.5	ng/dry g	50	77	60 - 140%	PASS			
Phenanthrene	NA	42.9	0.074	0.5	ng/dry g	50	86	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	43.8	0.048	0.5	ng/dry g	50		88	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19					Analyzed: 19-Mar-19		
(d10-Acenaphthene)	NA	86			% Recovery	100	86	50 - 112%	PASS		12	30	PASS	
(d10-Phenanthrene)	NA	79			% Recovery	100	79	59 - 121%	PASS		3	30	PASS	
(d12-Chrysene)	NA	83			% Recovery	100	83	52 - 144%	PASS		2	30	PASS	
(d12-Perylene)	NA	76			% Recovery	100	76	50 - 150%	PASS		1	30	PASS	
(d8-Naphthalene)	NA	109			% Recovery	100	109	31 - 106%	FAIL		22	30	PASS	
1,6,7-Trimethylnapthalene	NA	43.1	0.059	0.5	ng/dry g	50	86	60 - 140%	PASS		7	30	PASS	
1-Methylnaphthalene	NA	44	0.084	0.5	ng/dry g	50	88	60 - 140%	PASS		17	30	PASS	
1-Methylphenanthrene	NA	43.5	0.076	0.5	ng/dry g	50	87	60 - 140%	PASS		1	30	PASS	
2,6-Dimethylnaphthalene	NA	44.5	0.065	0.5	ng/dry g	50	89	60 - 140%	PASS		14	30	PASS	
2-Methylnaphthalene	NA	44.7	0.106	0.5	ng/dry g	50	89	60 - 140%	PASS		16	30	PASS	
Acenaphthene	NA	43.1	0.078	0.5	ng/dry g	50	86	60 - 140%	PASS		11	30	PASS	
Acenaphthylene	NA	42.8	0.058	0.5	ng/dry g	50	86	60 - 140%	PASS		11	30	PASS	
Anthracene	NA	36.4	0.046	0.5	ng/dry g	50	73	60 - 140%	PASS		9	30	PASS	
Benz[a]anthracene	NA	38.7	0.107	0.5	ng/dry g	50	77	60 - 140%	PASS		0	30	PASS	
Benzo[a]pyrene	NA	37.3	0.106	0.5	ng/dry g	50	75	60 - 140%	PASS		1	30	PASS	
Benzo[b]fluoranthene	NA	38.1	0.063	0.5	ng/dry g	50	76	60 - 140%	PASS		3	30	PASS	
Benzo[e]pyrene	NA	37.8	0.098	0.5	ng/dry g	50	76	60 - 140%	PASS		4	30	PASS	
Benzo[g,h,i]perylene	NA	38.7	0.093	0.5	ng/dry g	50	77	60 - 140%	PASS		3	30	PASS	
Benzo[k]fluoranthene	NA	36.3	0.111	0.5	ng/dry g	50	73	60 - 140%	PASS		8	30	PASS	
Biphenyl	NA	43.3	0.092	0.5	ng/dry g	50	87	60 - 140%	PASS		13	30	PASS	
Chrysene	NA	40.4	0.067	0.5	ng/dry g	50	81	60 - 140%	PASS		1	30	PASS	
Dibenz[a,h]anthracene	NA	37.8	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS		3	30	PASS	
Dibenzothiophene	NA	40.4	0.2	0.5	ng/dry g	50	81	60 - 140%	PASS		1	30	PASS	
Fluoranthene	NA	39	0.035	0.5	ng/dry g	50	78	60 - 140%	PASS		11	30	PASS	
Fluorene	NA	42.8	0.068	0.5	ng/dry g	50	86	60 - 140%	PASS		6	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	37	0.087	0.5	ng/dry g	50	74	60 - 140%	PASS		3	30	PASS	
Naphthalene	NA	44.8	0.187	0.5	ng/dry g	50	90	60 - 140%	PASS		22	30	PASS	
Perylene	NA	38	0.114	0.5	ng/dry g	50	76	60 - 140%	PASS		1	30	PASS	
Phenanthrene	NA	42.4	0.074	0.5	ng/dry g	50	85	60 - 140%	PASS		1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	38.5	0.048	0.5	ng/dry g	50		77	60 - 140%	PASS	13	30	PASS	
Sample ID: 57535-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21040			Prepared: 13-Mar-19			Analyzed: 19-Mar-19			
(d10-Acenaphthene)	NA	119			% Recovery	100		119	44 - 144%	PASS				
(d10-Phenanthrene)	NA	85			% Recovery	100		85	60 - 134%	PASS				
(d12-Chrysene)	NA	115			% Recovery	100		115	27 - 158%	PASS				
(d12-Perylene)	NA	93			% Recovery	100		93	17 - 160%	PASS				
(d8-Naphthalene)	NA	58			% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.806	0.106	0.5	ug/dry g	0.74		109	60 - 140%	PASS				
Benz[a]anthracene	NA	4.29	0.107	0.5	ug/dry g	4.72		91	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.99	0.106	0.5	ug/dry g	4.3		70	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	3.37	0.063	0.5	ug/dry g	3.87		87	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.1	0.098	0.5	ug/dry g	3.28		95	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.55	0.093	0.5	ug/dry g	2.84		90	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4.39		41	60 - 140%	FAIL				1
Chrysene	NA	5.95	0.067	0.5	ug/dry g	4.86		122	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.751	0.106	0.5	ug/dry g	0.924		81	60 - 140%	PASS				
Fluoranthene	NA	6.09	0.035	0.5	ug/dry g	8.92		68	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2.78		90	60 - 140%	PASS				
Perylene	NA	0.74	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	4.54	0.074	0.5	ug/dry g	5.27		86	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9.7		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	76			% Recovery	100	76	50 - 123%	PASS			
(PCB112)	NA	76			% Recovery	100	76	53 - 129%	PASS			
(PCB198)	NA	92			% Recovery	100	92	51 - 131%	PASS			
(TCMX)	NA	66			% Recovery	100	66	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
(PCB030)	NA	69			% Recovery	100	0	69	50 - 123% PASS			
(PCB112)	NA	77			% Recovery	100	0	77	53 - 129% PASS			
(PCB198)	NA	98			% Recovery	100	0	98	51 - 131% PASS			
(TCMX)	NA	51			% Recovery	100	0	51	45 - 117% PASS			
2,4'-DDD	NA	433	0.267	0.5	ng/dry g	500	0	87	60 - 140% PASS			
2,4'-DDE	NA	404	0.2	0.5	ng/dry g	500	0	81	60 - 140% PASS			
2,4'-DDT	NA	409	0.194	0.5	ng/dry g	500	0	82	60 - 140% PASS			
4,4'-DDD	NA	568	0.198	0.5	ng/dry g	500	0	114	60 - 140% PASS			
4,4'-DDE	NA	420	0.193	0.5	ng/dry g	500	0	84	60 - 140% PASS			
4,4'-DDMU	NA	461	0.223	0.5	ng/dry g	500	0	92	60 - 140% PASS			
4,4'-DDT	NA	576	0.128	0.5	ng/dry g	500	0	115	60 - 140% PASS			
Aldrin	NA	471	0.25	0.5	ng/dry g	500	0	94	60 - 140% PASS			
BHC-alpha	NA	336	0.25	0.5	ng/dry g	500	0	67	60 - 140% PASS			
BHC-beta	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140% PASS			
BHC-delta	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140% PASS			
BHC-gamma	NA	365	0.25	0.5	ng/dry g	500	0	73	60 - 140% PASS			
Chlordane-alpha	NA	362	0.187	0.5	ng/dry g	500	0	72	60 - 140% PASS			
Chlordane-gamma	NA	434	0.179	0.5	ng/dry g	500	0	87	60 - 140% PASS			
cis-Nonachlor	NA	376	0.192	0.5	ng/dry g	500	0	75	60 - 140% PASS			
DCPA (Dacthal)	NA	483	5	10	ng/dry g	500	0	97	60 - 140% PASS			
Dicofol	NA	481	2.5	5	ng/dry g	500	0	96	60 - 140% PASS			
Dieldrin	NA	389	0.1	0.2	ng/dry g	500	0	78	60 - 140% PASS			
Endosulfan Sulfate	NA	351	0.25	0.5	ng/dry g	500	0	70	60 - 140% PASS			
Endosulfan-I	NA	12.6	0.25	0.5	ng/dry g	500	0	3	60 - 140% FAIL			Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140% FAIL			Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140% PASS			
Endrin Aldehyde	NA	62.3	0.25	0.5	ng/dry g	500	0	12	60 - 140% FAIL			Q
Endrin Ketone	NA	498	0.25	0.5	ng/dry g	500	0	100	60 - 140% PASS			
Heptachlor	NA	371	0.25	0.5	ng/dry g	500	0	74	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Hexachlorobenzene	NA	334	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS			
Methoxychlor	NA	713	0.25	0.5	ng/dry g	500	0	143	60 - 140%	FAIL			Q
Mirex	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			
Oxychlordane	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	651	5	10	ng/dry g	500	0	130	60 - 140%	PASS			
trans-Nonachlor	NA	374	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
		Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	5480	10	20	ng/dry g	5000	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 05-Feb-19		
(PCB030)	NA	73			% Recovery	100	0	73	50 - 123%	PASS	6	30	PASS	
(PCB112)	NA	75			% Recovery	100	0	75	53 - 129%	PASS	3	30	PASS	
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131%	PASS	3	30	PASS	
(TCMX)	NA	58			% Recovery	100	0	58	45 - 117%	PASS	13	30	PASS	
2,4'-DDD	NA	435	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	402	0.2	0.5	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
2,4'-DDT	NA	417	0.194	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDD	NA	575	0.198	0.5	ng/dry g	500	0	115	60 - 140%	PASS	1	30	PASS	
4,4'-DDE	NA	417	0.193	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	451	0.223	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	598	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	4	30	PASS	
Aldrin	NA	495	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	5	30	PASS	
BHC-alpha	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	10	30	PASS	
BHC-beta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	389	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	1	30	PASS	
BHC-gamma	NA	388	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	7	30	PASS	
Chlordane-alpha	NA	372	0.187	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140%	PASS	1	30	PASS	
cis-Nonachlor	NA	379	0.192	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
DCPA (Dacthal)	NA	497	5	10	ng/dry g	500	0	99	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	587	2.5	5	ng/dry g	500	0	117	60 - 140%	PASS	20	30	PASS	
Dieldrin	NA	392	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS	0	30	PASS	
Endosulfan Sulfate	NA	361	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	12.1	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	40	30	FAIL	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	446	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	3	30	PASS	
Endrin Aldehyde	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140%	FAIL	55	30	FAIL	Q
Endrin Ketone	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	411	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	8	30	PASS	
Hexachlorobenzene	NA	348	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	728	0.25	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Mirex	NA	442	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS	
Oxychlordane	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	5	30	PASS	
Perthane	NA	672	5	10	ng/dry g	500	0	134	60 - 140%	PASS	3	30	PASS	
trans-Nonachlor	NA	383	0.186	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Toxaphene	NA	5550	10	20	ng/dry g	5000	0	111	60 - 140%	PASS	1	30	PASS	
Sample ID: 57535-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
(PCB030)	NA	92			% Recovery	100		92	33 - 149%	PASS				
(PCB112)	NA	95			% Recovery	100		95	49 - 120%	PASS				
(PCB198)	NA	54			% Recovery	100		54	35 - 123%	PASS				
(TCMX)	NA	94			% Recovery	100		94	37 - 138%	PASS				
2,4'-DDD	NA	39.5	0.267	0.5	ng/dry g	38		104	60 - 140%	PASS				
2,4'-DDE	NA	25.1	0.2	0.5	ng/dry g	19		132	60 - 140%	PASS				
4,4'-DDD	NA	136	0.198	0.5	ng/dry g	108		126	60 - 140%	PASS				
4,4'-DDE	NA	113	0.193	0.5	ng/dry g	86		131	60 - 140%	PASS				
4,4'-DDT	NA	166	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	21.1	0.187	0.5	ng/dry g	16.5		128	60 - 140%	PASS				
Chlordane-gamma	NA	30.2	0.179	0.5	ng/dry g	19		159	60 - 140%	PASS				
cis-Nonachlor	NA	3.92	0.192	0.5	ng/dry g	3.7		106	60 - 140%	PASS				
Hexachlorobenzene	NA	6	0.25	0.5	ng/dry g	6		100	60 - 140%	PASS				
trans-Nonachlor	NA	11.3	0.186	0.5	ng/dry g	8.2		138	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
		Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18			Analyzed: 08-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
		Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19			Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS		
Antimony (Sb)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Arsenic (As)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
Barium (Ba)	NA	2.05	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS		
Beryllium (Be)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS		
Cadmium (Cd)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Chromium (Cr)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Nickel (Ni)	NA	1.96	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS		
Selenium (Se)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Silver (Ag)	NA	0.201	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	1.95	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18					Analyzed: 08-Feb-19	
Aluminum (Al)	NA	2.35	1	5	µg/dry g	2	0	117	70 - 130%	PASS	27	30 PASS	
Antimony (Sb)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS	0	30 PASS	
Arsenic (As)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
Barium (Ba)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	2	30 PASS	
Beryllium (Be)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30 PASS	
Cadmium (Cd)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30 PASS	
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30 PASS	
Copper (Cu)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30 PASS	
Iron (Fe)	NA	2.46	1	5	µg/dry g	2	0	123	70 - 130%	PASS	25	30 PASS	
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	1	30 PASS	
Nickel (Ni)	NA	1.97	0.01	0.02	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
Selenium (Se)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	2	30 PASS	
Silver (Ag)	NA	0.209	0.01	0.02	µg/dry g	0.2	0	104	70 - 130%	PASS	4	30 PASS	
Zinc (Zn)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30 PASS	
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19					Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1090	1E-05	0.00002	µg/dry g	1000	0	109	70 - 130%	PASS	1	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57534-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	13700	1	5	µg/dry g	10100	136	42 - 124%	FAIL			
Antimony (Sb)	NA	113	0.025	0.05	µg/dry g	145	78	10 - 137%	PASS			
Arsenic (As)	NA	179	0.025	0.05	µg/dry g	171	105	66 - 122%	PASS			
Beryllium (Be)	NA	109	0.025	0.05	µg/dry g	102	107	72 - 120%	PASS			
Cadmium (Cd)	NA	220	0.0025	0.005	µg/dry g	225	98	70 - 117%	PASS			
Chromium (Cr)	NA	166	0.0025	0.005	µg/dry g	144	115	66 - 123%	PASS			
Copper (Cu)	NA	177	0.0025	0.005	µg/dry g	174	102	71 - 119%	PASS			
Iron (Fe)	NA	23700	1	5	µg/dry g	15000	158	33 - 155%	FAIL			
Lead (Pb)	NA	109	0.0025	0.005	µg/dry g	111	98	71 - 129%	PASS			
Nickel (Ni)	NA	97.3	0.01	0.02	µg/dry g	98.3	99	65 - 121%	PASS			
Selenium (Se)	NA	217	0.025	0.05	µg/dry g	206	105	64 - 122%	PASS			
Silver (Ag)	NA	43.1	0.01	0.02	µg/dry g	45.5	95	66 - 124%	PASS			
Zinc (Zn)	NA	215	0.025	0.05	µg/dry g	207	104	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.4	1E-05	0.00002	µg/dry g	12	87	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00903	0.0018	0.0036	µmol/dry g	0.0089	0	101	70 - 130%	PASS				
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS				
Lead (Pb) - SEM	NA	0.0047	0.0002	0.0004	µmol/dry g	0.0048	0	97	70 - 130%	PASS				
Nickel (Ni) - SEM	NA	0.0168	0.0033	0.0066	µmol/dry g	0.017	0	99	70 - 130%	PASS				
Silver (Ag) - SEM	NA	0.000861	0.0047	0.0094	µmol/dry g	0.0009	0	93	70 - 130%	PASS				
Zinc (Zn) - SEM	NA	0.0155	0.0015	0.003	µmol/dry g	0.0153	0	101	70 - 130%	PASS				
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00901	0.0018	0.0036	µmol/dry g	0.0089	0	101	70 - 130%	PASS	0	25	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	70 - 130%	PASS	0	25	PASS	
Lead (Pb) - SEM	NA	0.00473	0.0002	0.0004	µmol/dry g	0.0048	0	98	70 - 130%	PASS	1	25	PASS	
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	70 - 130%	PASS	0	25	PASS	
Silver (Ag) - SEM	NA	0.000866	0.0047	0.0094	µmol/dry g	0.0009	0	93	70 - 130%	PASS	0	25	PASS	
Zinc (Zn) - SEM	NA	0.0159	0.0015	0.003	µmol/dry g	0.0153	0	104	70 - 130%	PASS	3	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19		
Fipronil	NA	ND	0.25	0.5	ng/dry g									
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g									
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g									
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g									
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19		
Fipronil	NA	454	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS				
Fipronil Desulfinyl	NA	487	0.25	0.5	ng/dry g	500	0	97	60 - 140%	PASS				
Fipronil Sulfide	NA	482	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS				
Fipronil Sulfone	NA	353	0.25	0.5	ng/dry g	500	0	71	60 - 140%	PASS				
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19		
Fipronil	NA	522	0.25	0.5	ng/dry g	500	0	104	60 - 140%	PASS	13	30	PASS	
Fipronil Desulfinyl	NA	434	0.25	0.5	ng/dry g	500	0	87	60 - 140%	PASS	11	30	PASS	
Fipronil Sulfide	NA	530	0.25	0.5	ng/dry g	500	0	106	60 - 140%	PASS	10	30	PASS	
Fipronil Sulfone	NA	429	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS	19	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57537-R2	**B18-10040**				**Matrix: Sediment**		**Sampled: 14-Aug-18 14:00**			**Received: 15-Aug-18**		
	Method: SM 2560 D				Batch ID: P-1107		Prepared: 09-Jan-19			Analyzed: 09-Jan-19		
Gravel	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 0.5	NA	1.7	0.1	0.1	%					13	20 PASS	
Phi 1.0	NA	3.9	0.1	0.1	%					11	20 PASS	
Phi 1.5	NA	12.1	0.1	0.1	%					15	20 PASS	
Phi 10.0	NA	0.1	0.1	0.1	%					0	20 PASS	J
Phi 10.5	NA	0.2	0.1	0.1	%					0	20 PASS	
Phi 11.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 11.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 12.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.0	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 13.5	NA	ND	0.1	0.1	%					0	20 PASS	
Phi 2.0	NA	17.4	0.1	0.1	%					11	20 PASS	
Phi 2.5	NA	16.4	0.1	0.1	%					6	20 PASS	
Phi 3.0	NA	16.8	0.1	0.1	%					6	20 PASS	
Phi 3.5	NA	13.6	0.1	0.1	%					3	20 PASS	
Phi 4.0	NA	8.1	0.1	0.1	%					5	20 PASS	
Phi 4.5	NA	3.6	0.1	0.1	%					9	20 PASS	
Phi 5.0	NA	1.8	0.1	0.1	%					5	20 PASS	
Phi 5.5	NA	0.8	0.1	0.1	%					0	20 PASS	
Phi 6.0	NA	0.8	0.1	0.1	%					40	20 FAIL	SL
Phi 6.5	NA	0.6	0.1	0.1	%					15	20 PASS	
Phi 7.0	NA	0.7	0.1	0.1	%					0	20 PASS	
Phi 7.5	NA	0.5	0.1	0.1	%					22	20 PASS	SL,Q
Phi 8.0	NA	0.2	0.1	0.1	%					40	20 FAIL	SL
Phi 8.5	NA	0.3	0.1	0.1	%					50	20 FAIL	SL
Phi 9.0	NA	0.2	0.1	0.1	%					40	20 FAIL	SL
Phi 9.5	NA	0.2	0.1	0.1	%					0	20 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB003	NA	29.9	0.1	0.2	ng/dry g	50	0	60	60 - 140% PASS			Q
PCB005	NA	33.7	0.1	0.2	ng/dry g	50	0	67	60 - 140% PASS			Q
PCB008	NA	36.8	0.017	0.2	ng/dry g	50	0	74	60 - 140% PASS			
PCB015	NA	47.3	0.1	0.2	ng/dry g	50	0	95	60 - 140% PASS			
PCB018	NA	42.9	0.029	0.2	ng/dry g	50	0	86	60 - 140% PASS			
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140% PASS			
PCB028	NA	46.8	0.023	0.2	ng/dry g	50	0	94	60 - 140% PASS			
PCB029	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB031	NA	51.5	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB033	NA	52.3	0.1	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140% PASS			
PCB044	NA	49.5	0.028	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB049	NA	49.7	0.036	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB052	NA	48.4	0.012	0.2	ng/dry g	50	0	97	60 - 140% PASS			
PCB056(060)	NA	50.3	0.1	0.2	ng/dry g	50	0	101	60 - 140% PASS			
PCB066	NA	54.8	0.027	0.2	ng/dry g	50	0	110	60 - 140% PASS			
PCB070	NA	57.6	0.023	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB074	NA	54.5	0.021	0.2	ng/dry g	50	0	109	60 - 140% PASS			
PCB077	NA	58.9	0.018	0.2	ng/dry g	50	0	118	60 - 140% PASS			
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB087	NA	53.9	0.081	0.2	ng/dry g	50	0	108	60 - 140% PASS			
PCB095	NA	48.2	0.1	0.2	ng/dry g	50	0	96	60 - 140% PASS			
PCB097	NA	57.1	0.1	0.2	ng/dry g	50	0	114	60 - 140% PASS			
PCB099	NA	49.2	0.028	0.2	ng/dry g	50	0	98	60 - 140% PASS			
PCB101	NA	50	0.027	0.2	ng/dry g	50	0	100	60 - 140% PASS			
PCB105	NA	44.5	0.047	0.2	ng/dry g	50	0	89	60 - 140% PASS			
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140% PASS			
PCB118	NA	51.3	0.069	0.2	ng/dry g	50	0	103	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.7	0.071	0.2	ng/dry g	50	0	101	60 - 140%	PASS			
PCB123	NA	48.6	0.018	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB126	NA	53.1	0.086	0.2	ng/dry g	50	0	106	60 - 140%	PASS			
PCB128	NA	55.5	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB137	NA	45.7	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	47.2	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB141	NA	43.9	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS			
PCB149	NA	44.7	0.092	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB151	NA	59.6	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS			
PCB153	NA	51.2	0.065	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB156	NA	65.6	0.089	0.2	ng/dry g	50	0	131	60 - 140%	PASS			
PCB157	NA	48.8	0.103	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB158	NA	47.6	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB167	NA	55.9	0.049	0.2	ng/dry g	50	0	112	60 - 140%	PASS			
PCB168+132	NA	88.4	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS			
PCB169	NA	76.4	0.116	0.2	ng/dry g	50	0	153	60 - 140%	FAIL			Q
PCB170	NA	58.8	0.118	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB174	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB177	NA	60.5	0.085	0.25	ng/dry g	50	0	121	60 - 140%	PASS			
PCB180	NA	67.4	0.154	0.25	ng/dry g	50	0	135	60 - 140%	PASS			
PCB183	NA	55.7	0.056	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB187	NA	59.1	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	73	0.109	0.25	ng/dry g	50	0	146	60 - 140%	FAIL			Q
PCB194	NA	82.7	0.164	0.25	ng/dry g	50	0	165	60 - 140%	FAIL			
PCB195	NA	66.3	0.093	0.25	ng/dry g	50	0	133	60 - 140%	PASS			
PCB199(200)	NA	57.5	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	61	0.12	0.25	ng/dry g	50	0	122	60 - 140%	PASS			
PCB206	NA	79.1	0.155	0.25	ng/dry g	50	0	158	60 - 140%	FAIL			
PCB209	NA	67.3	0.12	0.25	ng/dry g	50	0	135	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
PCB003	NA	34.8	0.1	0.2	ng/dry g	50	0	70	60 - 140%	PASS	15	30	PASS
PCB005	NA	38.2	0.1	0.2	ng/dry g	50	0	76	60 - 140%	PASS	13	30	PASS
PCB008	NA	39.2	0.017	0.2	ng/dry g	50	0	78	60 - 140%	PASS	5	30	PASS
PCB015	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%	PASS	3	30	PASS
PCB018	NA	46.1	0.029	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	3	30	PASS
PCB028	NA	47	0.023	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS
PCB029	NA	52.9	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS
PCB031	NA	52.2	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140%	PASS	0	30	PASS
PCB044	NA	51.1	0.028	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30	PASS
PCB049	NA	50.5	0.036	0.2	ng/dry g	50	0	101	60 - 140%	PASS	2	30	PASS
PCB052	NA	51.7	0.012	0.2	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	3	30	PASS
PCB066	NA	54.9	0.027	0.2	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS
PCB070	NA	57.5	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	0	30	PASS
PCB074	NA	54.6	0.021	0.2	ng/dry g	50	0	109	60 - 140%	PASS	0	30	PASS
PCB077	NA	60.3	0.018	0.2	ng/dry g	50	0	121	60 - 140%	PASS	3	30	PASS
PCB081	NA	60.2	0.084	0.2	ng/dry g	50	0	120	60 - 140%	PASS	4	30	PASS
PCB087	NA	57.2	0.081	0.2	ng/dry g	50	0	114	60 - 140%	PASS	5	30	PASS
PCB095	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS
PCB097	NA	59.8	0.1	0.2	ng/dry g	50	0	120	60 - 140%	PASS	5	30	PASS
PCB099	NA	49.9	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS
PCB101	NA	51.5	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS
PCB105	NA	43.7	0.047	0.2	ng/dry g	50	0	87	60 - 140%	PASS	2	30	PASS
PCB110	NA	53.7	0.074	0.2	ng/dry g	50	0	107	60 - 140%	PASS	2	30	PASS
PCB114	NA	53.1	0.072	0.2	ng/dry g	50	0	106	60 - 140%	PASS	4	30	PASS
PCB118	NA	51.9	0.069	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.3	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	3	30	PASS	
PCB126	NA	54.6	0.086	0.2	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS	
PCB128	NA	54.7	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	2	30	PASS	
PCB137	NA	46.2	0.1	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS	
PCB138	NA	46.9	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB141	NA	44	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.2	0.092	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB151	NA	62	0.073	0.2	ng/dry g	50	0	124	60 - 140%	PASS	4	30	PASS	
PCB153	NA	49.3	0.065	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB156	NA	64.5	0.089	0.2	ng/dry g	50	0	129	60 - 140%	PASS	2	30	PASS	
PCB157	NA	48	0.103	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB158	NA	47.7	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB167	NA	57.2	0.049	0.2	ng/dry g	50	0	114	60 - 140%	PASS	2	30	PASS	
PCB168+132	NA	87.7	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS	0	30	PASS	
PCB169	NA	73.8	0.116	0.2	ng/dry g	50	0	148	60 - 140%	FAIL	3	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB174	NA	53.6	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB177	NA	59.9	0.085	0.25	ng/dry g	50	0	120	60 - 140%	PASS	1	30	PASS	
PCB180	NA	65.5	0.154	0.25	ng/dry g	50	0	131	60 - 140%	PASS	3	30	PASS	
PCB183	NA	55.8	0.056	0.25	ng/dry g	50	0	112	60 - 140%	PASS	1	30	PASS	
PCB187	NA	59.5	0.168	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB189	NA	72.2	0.109	0.25	ng/dry g	50	0	144	60 - 140%	PASS	1	30	PASS	Q
PCB194	NA	80.3	0.164	0.25	ng/dry g	50	0	161	60 - 140%	FAIL	2	30	PASS	
PCB195	NA	67.1	0.093	0.25	ng/dry g	50	0	134	60 - 140%	PASS	1	30	PASS	
PCB199(200)	NA	56	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS	
PCB201	NA	43.1	0.104	0.25	ng/dry g	50	0	86	60 - 140%	PASS	3	30	PASS	
PCB203	NA	56.7	0.12	0.25	ng/dry g	50	0	113	60 - 140%	PASS	8	30	PASS	
PCB206	NA	73.5	0.155	0.25	ng/dry g	50	0	147	60 - 140%	FAIL	7	30	PASS	
PCB209	NA	62.5	0.12	0.25	ng/dry g	50	0	125	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57535-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB008	NA	29.1	0.017	0.2	ng/dry g	22.3	130	60 - 140%	PASS			
PCB018	NA	56.6	0.029	0.2	ng/dry g	51	111	60 - 140%	PASS			
PCB028	NA	88.9	0.023	0.2	ng/dry g	80.8	110	60 - 140%	PASS			
PCB044	NA	44.6	0.028	0.2	ng/dry g	60.2	74	60 - 140%	PASS			
PCB049	NA	41.1	0.036	0.2	ng/dry g	53	78	60 - 140%	PASS			
PCB052	NA	71.1	0.012	0.2	ng/dry g	79.4	90	60 - 140%	PASS			
PCB066	NA	52.8	0.027	0.2	ng/dry g	71.9	73	60 - 140%	PASS			
PCB087	NA	20.7	0.081	0.2	ng/dry g	29.9	69	60 - 140%	PASS			
PCB099	NA	22.9	0.028	0.2	ng/dry g	37.5	61	60 - 140%	PASS			
PCB101	NA	53.2	0.027	0.2	ng/dry g	73.4	72	60 - 140%	PASS			
PCB105	NA	10.1	0.047	0.2	ng/dry g	24.5	41	60 - 140%	FAIL			1
PCB110	NA	45.3	0.074	0.2	ng/dry g	63.5	71	60 - 140%	PASS			
PCB118	NA	30.9	0.069	0.2	ng/dry g	58	53	60 - 140%	FAIL			1
PCB128	NA	5.23	0.081	0.2	ng/dry g	8.5	62	60 - 140%	PASS			
PCB138	NA	48.5	0.057	0.2	ng/dry g	62.1	78	60 - 140%	PASS			
PCB149	NA	34.7	0.092	0.2	ng/dry g	49.7	70	60 - 140%	PASS			
PCB151	NA	14.1	0.073	0.2	ng/dry g	16.9	83	60 - 140%	PASS			
PCB153	NA	54.7	0.065	0.2	ng/dry g	74	74	60 - 140%	PASS			
PCB156	NA	2.65	0.089	0.2	ng/dry g	6.5	41	60 - 140%	FAIL			1
PCB170	NA	19.2	0.118	0.25	ng/dry g	22.6	85	60 - 140%	PASS			
PCB174	NA	16.4	0.12	0.25	ng/dry g	16	102	60 - 140%	PASS			
PCB180	NA	33.1	0.154	0.25	ng/dry g	44.3	75	60 - 140%	PASS			
PCB183	NA	10.4	0.056	0.25	ng/dry g	12.2	85	60 - 140%	PASS			
PCB187	NA	24	0.168	0.25	ng/dry g	25.1	96	60 - 140%	PASS			
PCB194	NA	11.1	0.164	0.25	ng/dry g	11.2	99	60 - 140%	PASS			
PCB195	NA	3.4	0.093	0.25	ng/dry g	3.8	89	60 - 140%	PASS			
PCB206	NA	6.35	0.155	0.25	ng/dry g	9.2	69	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	103			% Recovery	100	103	63 - 146%	PASS			
(FTBDE)	NA	100			% Recovery	100	100	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS		
(FTBDE)	NA	97			% Recovery	100	0	97	53 - 138%	PASS		
PBDE017	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE028	NA	54.7	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS		
PBDE047	NA	52.9	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE066	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE085	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS		
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE100	NA	51.7	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE138	NA	44.2	0.05	0.1	ng/dry g	50	0	88	60 - 140%	PASS		
PBDE153	NA	48.7	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE154	NA	47.1	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS		
PBDE190	NA	44.5	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS		
PBDE209	NA	238	0.05	0.1	ng/dry g	250	0	95	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	0	30 PASS	
(FTBDE)	NA	103			% Recovery	100	0	103	53 - 138%	PASS	6	30 PASS	
PBDE017	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	6	30 PASS	
PBDE028	NA	55.9	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	3	30 PASS	
PBDE047	NA	54.6	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	3	30 PASS	
PBDE049	NA	58.9	0.05	0.1	ng/dry g	50	0	118	60 - 140%	PASS	23	30 PASS	
PBDE066	NA	55.1	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	4	30 PASS	
PBDE085	NA	51.6	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS	1	30 PASS	
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	0	30 PASS	
PBDE100	NA	52.2	0.05	0.1	ng/dry g	50	0	104	60 - 140%	PASS	1	30 PASS	
PBDE138	NA	44.3	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS	1	30 PASS	
PBDE153	NA	50.5	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30 PASS	
PBDE154	NA	51	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS	8	30 PASS	
PBDE183	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS	8	30 PASS	
PBDE190	NA	47.9	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	8	30 PASS	
PBDE209	NA	253	0.05	0.1	ng/dry g	250	0	101	60 - 140%	PASS	6	30 PASS	
Sample ID: 57535-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 23-Jan-19	
(DFPBDE)	NA	116			% Recovery	100		116	60 - 140%	PASS			
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS			
PBDE047	NA	2.08	0.05	0.1	ng/dry g	1.72		121	60 - 140%	PASS			
PBDE099	NA	2.61	0.05	0.1	ng/dry g	2		130	60 - 140%	PASS			
PBDE100	NA	0.425	0.05	0.1	ng/dry g	0.4		106	60 - 140%	PASS			
PBDE153	NA	4.6	0.05	0.1	ng/dry g	6.44		71	60 - 140%	PASS			
PBDE154	NA	1.47	0.05	0.1	ng/dry g	1.06		139	60 - 140%	PASS			
PBDE183	NA	19.7	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS			
PBDE209	NA	58.4	0.05	0.1	ng/dry g	93.5		62	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 57533-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 57533-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	634	0.28	0.5	ng/dry g	500	0	127	60 - 140%		PASS	
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%		PASS	
Cyfluthrin	NA	484	0.25	0.5	ng/dry g	500	0	97	60 - 140%		PASS	
Cyhalothrin, Total Lambda	NA	571	0.23	0.5	ng/dry g	500	0	114	60 - 140%		PASS	
Cypermethrin	NA	477	0.25	0.5	ng/dry g	500	0	95	60 - 140%		PASS	
Danitol (Fenpropathrin)	NA	600	0.21	0.5	ng/dry g	500	0	120	60 - 140%		PASS	
Deltamethrin/Tralomethrin	NA	413	0.25	0.5	ng/dry g	500	0	83	60 - 140%		PASS	
Esfenvalerate	NA	425	0.25	0.5	ng/dry g	500	0	85	60 - 140%		PASS	
Fenvalerate	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%		PASS	
Fluvalinate	NA	388	0.23	0.5	ng/dry g	500	0	78	60 - 140%		PASS	
Permethrin, cis-	NA	154	0.17	0.5	ng/dry g	134	0	115	60 - 140%		PASS	
Permethrin, trans-	NA	394	0.22	0.5	ng/dry g	358	0	110	60 - 140%		PASS	
Prallethrin	NA	531	0.28	0.5	ng/dry g	500	0	106	60 - 140%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 57533-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 31-Jan-19		
Allethrin	NA	594	0.28	0.5	ng/dry g	500	0	119	60 - 140%	PASS	7	30	PASS	
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	60 - 140%	PASS	0	30	PASS	
Cyfluthrin	NA	609	0.25	0.5	ng/dry g	500	0	122	60 - 140%	PASS	23	30	PASS	
Cyhalothrin, Total Lambda	NA	632	0.23	0.5	ng/dry g	500	0	126	60 - 140%	PASS	10	30	PASS	
Cypermethrin	NA	593	0.25	0.5	ng/dry g	500	0	119	60 - 140%	PASS	22	30	PASS	
Danitol (Fenpropathrin)	NA	598	0.21	0.5	ng/dry g	500	0	120	60 - 140%	PASS	0	30	PASS	
Deltamethrin/Tralomethrin	NA	479	0.25	0.5	ng/dry g	500	0	96	60 - 140%	PASS	15	30	PASS	
Esfenvalerate	NA	490	0.25	0.5	ng/dry g	500	0	98	60 - 140%	PASS	14	30	PASS	
Fenvalerate	NA	539	0.25	0.5	ng/dry g	500	0	108	60 - 140%	PASS	17	30	PASS	
Fluvalinate	NA	460	0.23	0.5	ng/dry g	500	0	92	60 - 140%	PASS	16	30	PASS	
Permethrin, cis-	NA	171	0.17	0.5	ng/dry g	134	0	128	60 - 140%	PASS	11	30	PASS	
Permethrin, trans-	NA	452	0.22	0.5	ng/dry g	358	0	126	60 - 140%	PASS	14	30	PASS	
Prallethrin	NA	548	0.28	0.5	ng/dry g	500	0	110	60 - 140%	PASS	4	30	PASS	

CHAIN OF CUSTODY

1807003-016

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES
	8/14/2018	1400	sediment	B18-10040	3	X
	8/14/2018	1030	sediment	B18-10043	3	X
	8/14/2018	1210	sediment	B18-10044	3	X
	8/14/2018	1130	sediment	B18-20043	3	X

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
Stan Cenker	8/15/18 1410	RBE
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-016

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 8/15/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 4	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 16:15 ☐ Other:	☐ Other :	☐ None 6.7 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:
See Temperature

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 08, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-018

Dear Chris,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 9/13/2018. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Conventionals
Ammonia as N by SM 4500-NH3 D
Particle Size Distribution (phi size) by SM 2560 D
Acid Volatile Sulfides (AVS) by Plumb, 1981 and TERL
Elements
Trace Metals by EPA 6020
Elements - AVS/SEM by EPA 200.8
Total Phosphorus by EPA 6020
Trace Mercury by EPA 245.7
Organics
Organochlorine Pesticides & PCB Congeners by EPA 8270D
Toxaphene w/ OCPs by EPA 8270D-NCI
PBDE Congeners by EPA 8270D-NCI
Percent Solids by SM 2540 B
Polynuclear Aromatic Hydrocarbons by EPA 8270D
Synthetic Pyrethroid Pesticides by EPA 8270D-MRM
Total Nitrogen by EPA 9060
Total Organic Carbon by EPA 9060
Fipronil & Degradates by EPA 8270D-NCI

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-018

2018 Regional Harbor Monitoring Program Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
58908	B18-10200		9/12/2018	12:15	Sediment

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

CASE NARRATIVE

QUALIFIER NOTES

In addition to the use of analyte specific Physis Qualifier Codes where applicable, the following were also noted.

CERTIFIED REFERENCE MATERIAL

1 The Bight 18 QA Manual Table 5-4 specifies that "the CRM recovery should be within ±40% of the certified value ≥80% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥80% for the PAHs. Table 5-5 specifies that "the CRM recovery should be within ±40% of the certified value for ≥70% of the analytes" and the "Matrix Spike recoveries should be ±40% of the true value for ≥70% of the analytes for each analyte group; PCB congeners, Chlorinated Pesticides, Pyrethroids, PBDEs, and Fipronils.

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**		**Matrix: Sediment**			**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
(PCB030)	EPA 8270D	% Recovery	67			NA		O-21014	10-Jan-19	07-Feb-19
(PCB112)	EPA 8270D	% Recovery	69			NA		O-21014	10-Jan-19	07-Feb-19
(PCB198)	EPA 8270D	% Recovery	69			NA		O-21014	10-Jan-19	07-Feb-19
(TCMX)	EPA 8270D	% Recovery	62			NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDD	EPA 8270D	ng/dry g	ND	0.267	0.5	NA		O-21014	10-Jan-19	07-Feb-19
2,4'-DDE	EPA 8270D	ng/dry g	0.227	0.2	0.5	NA	J	O-21014	10-Jan-19	07-Feb-19
2,4'-DDT	EPA 8270D	ng/dry g	ND	0.194	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDD	EPA 8270D	ng/dry g	2.76	0.198	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDE	EPA 8270D	ng/dry g	4.94	0.193	0.5	NA		O-21014	10-Jan-19	07-Feb-19
4,4'-DDMU	EPA 8270D	ng/dry g	0.458	0.223	0.5	NA	J	O-21014	10-Jan-19	07-Feb-19
4,4'-DDT	EPA 8270D	ng/dry g	ND	0.128	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Aldrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-alpha	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-beta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-delta	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
BHC-gamma	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-alpha	EPA 8270D	ng/dry g	0.651	0.187	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Chlordane-gamma	EPA 8270D	ng/dry g	0.957	0.179	0.5	NA		O-21014	10-Jan-19	07-Feb-19
cis-Nonachlor	EPA 8270D	ng/dry g	0.48	0.192	0.5	NA	J	O-21014	10-Jan-19	07-Feb-19
DCPA (Dacthal)	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Dicofol	EPA 8270D	ng/dry g	ND	2.5	5	NA		O-21014	10-Jan-19	07-Feb-19
Dieldrin	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan Sulfate	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endosulfan-I	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Aldehyde	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Endrin Ketone	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Heptachlor Epoxide	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Hexachlorobenzene	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Methoxychlor	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Mirex	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Oxychlordane	EPA 8270D	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	07-Feb-19
Perthane	EPA 8270D	ng/dry g	ND	5	10	NA		O-21014	10-Jan-19	07-Feb-19
Toxaphene	EPA 8270D-NCI	ng/dry g	ND	10	20	NA		O-21014	10-Jan-19	23-Jan-19
trans-Nonachlor	EPA 8270D	ng/dry g	0.929	0.186	0.5	NA		O-21014	10-Jan-19	07-Feb-19

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**			**Matrix: Sediment**		**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Acid Volatile Sulfides	lumb, 1981 and TER	mg/dry kg	494	0.05	0.1	NA		C-41080	09-Jan-19	09-Jan-19
Ammonia as N	SM 4500-NH3 D	mg/dry kg	27.3	0.02	0.03	NA		C-39070	03-Jan-19	03-Jan-19
Percent Solids	SM 2540 B	%	57.9	0.1	0.1	NA		C-35151	10-Jan-19	10-Jan-19
Total Nitrogen	EPA 9060	% dry weight	0.13	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Organic Carbon	EPA 9060	% dry weight	1.66	0.01	0.01	NA		O-19054	15-Jan-19	15-Jan-19
Total Phosphorus	EPA 6020	µg/dry g	301	0.016	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**			**Matrix: Sediment**		**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Aluminum (Al)	EPA 6020	µg/dry g	19500	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Antimony (Sb)	EPA 6020	µg/dry g	0.356	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Arsenic (As)	EPA 6020	µg/dry g	6.13	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Barium (Ba)	EPA 6020	µg/dry g	64.9	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Beryllium (Be)	EPA 6020	µg/dry g	0.382	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Cadmium (Cd)	EPA 6020	µg/dry g	0.651	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Chromium (Cr)	EPA 6020	µg/dry g	21.7	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Copper (Cu)	EPA 6020	µg/dry g	36.8	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Iron (Fe)	EPA 6020	µg/dry g	17700	1	5	NA		E-14073	24-Dec-18	08-Feb-19
Lead (Pb)	EPA 6020	µg/dry g	13.8	0.0025	0.005	NA		E-14073	24-Dec-18	08-Feb-19
Mercury (Hg)	EPA 245.7	µg/dry g	0.0484	1E-05	0.00002	NA		E-15090	11-Jan-19	11-Jan-19
Nickel (Ni)	EPA 6020	µg/dry g	8.39	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Selenium (Se)	EPA 6020	µg/dry g	0.501	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19
Silver (Ag)	EPA 6020	µg/dry g	0.194	0.01	0.02	NA		E-14073	24-Dec-18	08-Feb-19
Zinc (Zn)	EPA 6020	µg/dry g	127	0.025	0.05	NA		E-14073	24-Dec-18	08-Feb-19

Elements - AVS/SEM

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**			**Matrix: Sediment**		**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Cadmium (Cd) - SEM	EPA 200.8	µmol/dry g	0.00252	0.0018	0.0036	NA	J	E-17005	14-Jan-19	15-Jan-19
Copper (Cu) - SEM	EPA 200.8	µmol/dry g	0.0178	0.0062	0.0124	NA		E-17005	14-Jan-19	15-Jan-19
Lead (Pb) - SEM	EPA 200.8	µmol/dry g	0.025	0.0002	0.0004	NA		E-17005	14-Jan-19	15-Jan-19
Nickel (Ni) - SEM	EPA 200.8	µmol/dry g	0.00982	0.0033	0.0066	NA		E-17005	14-Jan-19	15-Jan-19
Silver (Ag) - SEM	EPA 200.8	µmol/dry g	ND	0.0047	0.0094	NA		E-17005	14-Jan-19	15-Jan-19
Zinc (Zn) - SEM	EPA 200.8	µmol/dry g	0.893	0.0015	0.003	NA		E-17005	14-Jan-19	15-Jan-19

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**		**Matrix: Sediment**			**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Fipronil	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Desulfinyl	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfide	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19
Fipronil Sulfone	EPA 8270D-NCI	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	23-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**		**Matrix: Sediment**			**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Gravel	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 0.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 1.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.0	SM 2560 D	%	1.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 10.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 11.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 12.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.0	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 13.5	SM 2560 D	%	ND	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.0	SM 2560 D	%	4.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 2.5	SM 2560 D	%	6.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.0	SM 2560 D	%	7.9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 3.5	SM 2560 D	%	9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.0	SM 2560 D	%	9.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 4.5	SM 2560 D	%	8.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.0	SM 2560 D	%	9.6	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 5.5	SM 2560 D	%	5.8	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.0	SM 2560 D	%	9	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 6.5	SM 2560 D	%	5.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 7.0	SM 2560 D	%	7	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

Particle Size Distribution

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Phi 7.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.0	SM 2560 D	%	4.2	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 8.5	SM 2560 D	%	3.4	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.0	SM 2560 D	%	3.1	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19
Phi 9.5	SM 2560 D	%	1.3	0.1	0.1	NA		P-1108	14-Jan-19	14-Jan-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**		**Matrix: Sediment**			**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
PCB003	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB005	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB008	EPA 8270D	ng/dry g	ND	0.017	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB015	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB018	EPA 8270D	ng/dry g	ND	0.029	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB027	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB028	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB029	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB031	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB033	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB037	EPA 8270D	ng/dry g	ND	0.06	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB044	EPA 8270D	ng/dry g	ND	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB049	EPA 8270D	ng/dry g	ND	0.036	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB052	EPA 8270D	ng/dry g	0.223	0.012	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB056(060)	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB066	EPA 8270D	ng/dry g	ND	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB070	EPA 8270D	ng/dry g	ND	0.023	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB074	EPA 8270D	ng/dry g	ND	0.021	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB077	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB081	EPA 8270D	ng/dry g	ND	0.084	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB087	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB095	EPA 8270D	ng/dry g	0.362	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB097	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB099	EPA 8270D	ng/dry g	0.334	0.028	0.2	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 8270D	ng/dry g	0.547	0.027	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB105	EPA 8270D	ng/dry g	ND	0.047	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB110	EPA 8270D	ng/dry g	0.456	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB114	EPA 8270D	ng/dry g	ND	0.072	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB118	EPA 8270D	ng/dry g	0.392	0.069	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB119	EPA 8270D	ng/dry g	ND	0.071	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB123	EPA 8270D	ng/dry g	ND	0.018	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB126	EPA 8270D	ng/dry g	ND	0.086	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB128	EPA 8270D	ng/dry g	ND	0.081	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB137	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB138	EPA 8270D	ng/dry g	0.887	0.057	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB141	EPA 8270D	ng/dry g	ND	0.1	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB149	EPA 8270D	ng/dry g	0.477	0.092	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB151	EPA 8270D	ng/dry g	0.161	0.073	0.2	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB153	EPA 8270D	ng/dry g	0.739	0.065	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB156	EPA 8270D	ng/dry g	ND	0.089	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB157	EPA 8270D	ng/dry g	ND	0.103	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB158	EPA 8270D	ng/dry g	ND	0.074	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB167	EPA 8270D	ng/dry g	ND	0.049	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB168+132	EPA 8270D	ng/dry g	ND	0.094	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB169	EPA 8270D	ng/dry g	ND	0.116	0.2	NA		O-21014	10-Jan-19	07-Feb-19
PCB170	EPA 8270D	ng/dry g	ND	0.118	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB174	EPA 8270D	ng/dry g	0.231	0.12	0.25	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB177	EPA 8270D	ng/dry g	ND	0.085	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB180	EPA 8270D	ng/dry g	0.489	0.154	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 8270D	ng/dry g	0.112	0.056	0.25	NA	J	O-21014	10-Jan-19	07-Feb-19
PCB187	EPA 8270D	ng/dry g	0.273	0.168	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB189	EPA 8270D	ng/dry g	ND	0.109	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB194	EPA 8270D	ng/dry g	ND	0.164	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB195	EPA 8270D	ng/dry g	ND	0.093	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB199(200)	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB201	EPA 8270D	ng/dry g	ND	0.104	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB203	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB206	EPA 8270D	ng/dry g	ND	0.155	0.25	NA		O-21014	10-Jan-19	07-Feb-19
PCB209	EPA 8270D	ng/dry g	ND	0.12	0.25	NA		O-21014	10-Jan-19	07-Feb-19

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**			**Matrix: Sediment**		**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
(DFPBDE)	EPA 8270D-NCI	% Recovery	98			NA		O-21014	10-Jan-19	24-Jan-19
(FTBDE)	EPA 8270D-NCI	% Recovery	87			NA		O-21014	10-Jan-19	24-Jan-19
PBDE017	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE028	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE047	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE049	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE066	EPA 8270D-NCI	ng/dry g	1.38	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE085	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE099	EPA 8270D-NCI	ng/dry g	1.09	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE100	EPA 8270D-NCI	ng/dry g	0.237	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE138	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE153	EPA 8270D-NCI	ng/dry g	0.218	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE154	EPA 8270D-NCI	ng/dry g	0.124	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE183	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE190	EPA 8270D-NCI	ng/dry g	ND	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19
PBDE209	EPA 8270D-NCI	ng/dry g	5.76	0.05	0.1	NA		O-21014	10-Jan-19	24-Jan-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**			**Matrix: Sediment**		**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
(d10-Acenaphthene)	EPA 8270D	% Recovery	82			NA		O-21040	13-Mar-19	20-Mar-19
(d10-Phenanthrene)	EPA 8270D	% Recovery	87			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Chrysene)	EPA 8270D	% Recovery	108			NA		O-21040	13-Mar-19	20-Mar-19
(d12-Perylene)	EPA 8270D	% Recovery	95			NA		O-21040	13-Mar-19	20-Mar-19
(d8-Naphthalene)	EPA 8270D	% Recovery	86			NA		O-21040	13-Mar-19	20-Mar-19
1,6,7-Trimethylnapthalene	EPA 8270D	ng/dry g	2.334208	0.059	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylnaphthalene	EPA 8270D	ng/dry g	1.635985	0.084	0.5	NA		O-21040	13-Mar-19	20-Mar-19
1-Methylphenanthrene	EPA 8270D	ng/dry g	3.122911	0.076	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2,6-Dimethylnaphthalene	EPA 8270D	ng/dry g	2.591414	0.065	0.5	NA		O-21040	13-Mar-19	20-Mar-19
2-Methylnaphthalene	EPA 8270D	ng/dry g	2.981912	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthene	EPA 8270D	ng/dry g	0.750069	0.078	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Acenaphthylene	EPA 8270D	ng/dry g	1.302644	0.058	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Anthracene	EPA 8270D	ng/dry g	3.073482	0.046	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benz[a]anthracene	EPA 8270D	ng/dry g	18.33155	0.107	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[a]pyrene	EPA 8270D	ng/dry g	27.43375	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[b]fluoranthene	EPA 8270D	ng/dry g	31.8533	0.063	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[e]pyrene	EPA 8270D	ng/dry g	33.55574	0.098	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[g,h,i]perylene	EPA 8270D	ng/dry g	50.21995	0.093	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Benzo[k]fluoranthene	EPA 8270D	ng/dry g	28.65066	0.111	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Biphenyl	EPA 8270D	ng/dry g	0.9082291	0.092	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Chrysene	EPA 8270D	ng/dry g	36.91498	0.067	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenz[a,h]anthracene	EPA 8270D	ng/dry g	6.713781	0.106	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Dibenzothiophene	EPA 8270D	ng/dry g	2.758114	0.2	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Fluoranthene	EPA 8270D	ng/dry g	45.83944	0.035	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 8270D	ng/dry g	2.218645	0.068	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Indeno[1,2,3-cd]pyrene	EPA 8270D	ng/dry g	29.95941	0.087	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Naphthalene	EPA 8270D	ng/dry g	4.437919	0.187	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Perylene	EPA 8270D	ng/dry g	10.01838	0.114	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Phenanthrene	EPA 8270D	ng/dry g	20.51335	0.074	0.5	NA		O-21040	13-Mar-19	20-Mar-19
Pyrene	EPA 8270D	ng/dry g	53.37087	0.048	0.5	NA		O-21040	13-Mar-19	20-Mar-19

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 58908-R1	**B18-10200**		**Matrix: Sediment**			**Sampled: 12-Sep-18**			**Received: 13-Sep-18**	
Allethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Bifenthrin	EPA 8270D-MRM	ng/dry g	17.7	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyfluthrin	EPA 8270D-MRM	ng/dry g	2.77	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cyhalothrin, Total Lambda	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Cypermethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Danitol (Fenpropathrin)	EPA 8270D-MRM	ng/dry g	ND	0.21	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Deltamethrin/Tralomethrin	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Esfenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fenvalerate	EPA 8270D-MRM	ng/dry g	ND	0.25	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Fluvalinate	EPA 8270D-MRM	ng/dry g	ND	0.23	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, cis-	EPA 8270D-MRM	ng/dry g	5.33	0.17	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Permethrin, trans-	EPA 8270D-MRM	ng/dry g	10.6	0.22	0.5	NA		O-21014	10-Jan-19	01-Feb-19
Prallethrin	EPA 8270D-MRM	ng/dry g	ND	0.28	0.5	NA		O-21014	10-Jan-19	01-Feb-19

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Acid Volatile Sulfides			**Method: Plumb, 1981 and TERL**			**Fraction: NA**				**Prepared: 09-Jan-19**			**Analyzed: 09-Jan-19**	
58904-B1	QAQC Procedural Blank	C-41080	ND	0.05	0.1	mg/dry kg								
58904-BS1	QAQC Procedural Blank	C-41080	20.6	0.05	0.1	mg/dry kg	23.3	0	88	80 - 120%	PASS			
58904-BS2	QAQC Procedural Blank	C-41080	20.8	0.05	0.1	mg/dry kg	23.3	0	89	80 - 120%	PASS	1	25 PASS	
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**				**Prepared: 03-Jan-19**			**Analyzed: 03-Jan-19**	
58904-B1	QAQC Procedural Blank	C-39070	ND	0.02	0.03	mg/dry kg								
58904-BS1	QAQC Procedural Blank	C-39070	2	0.02	0.03	mg/dry kg	1.83	0	109	80 - 120%	PASS			
58904-BS2	QAQC Procedural Blank	C-39070	1.91	0.02	0.03	mg/dry kg	1.83	0	104	80 - 120%	PASS	5	25 PASS	
Percent Solids			**Method: SM 2540 B**			**Fraction: NA**				**Prepared: 10-Jan-19**			**Analyzed: 10-Jan-19**	
58904-B1	QAQC Procedural Blank	C-35151	ND	0.1	0.1	%								
Total Nitrogen			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
58904-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
Total Organic Carbon			**Method: EPA 9060**			**Fraction: NA**				**Prepared: 15-Jan-19**			**Analyzed: 15-Jan-19**	
58904-B1	QAQC Procedural Blank	O-19054	ND	0.01	0.01	% dry weight								
58906-CRM1	QAQC CRM - SRM 1944	O-19054	4.71	0.01	0.01	% dry weight	4.4		107	80 - 120%	PASS			
Total Phosphorus			**Method: EPA 6020**			**Fraction: NA**				**Prepared: 24-Dec-18**			**Analyzed: 08-Feb-19**	
58904-B1	QAQC Procedural Blank	E-14073	ND	0.016	0.05	µg/dry g								
58904-BS1	QAQC Procedural Blank	E-14073	48.3	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS			
58904-BS2	QAQC Procedural Blank	E-14073	48.6	0.016	0.05	µg/dry g	50	0	97	80 - 120%	PASS	0	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	76			% Recovery	100	76	50 - 123%	PASS			
(PCB112)	NA	76			% Recovery	100	76	53 - 129%	PASS			
(PCB198)	NA	92			% Recovery	100	92	51 - 131%	PASS			
(TCMX)	NA	66			% Recovery	100	66	45 - 117%	PASS			
2,4'-DDD	NA	ND	0.267	0.5	ng/dry g							
2,4'-DDE	NA	ND	0.2	0.5	ng/dry g							
2,4'-DDT	NA	ND	0.194	0.5	ng/dry g							
4,4'-DDD	NA	ND	0.198	0.5	ng/dry g							
4,4'-DDE	NA	ND	0.193	0.5	ng/dry g							
4,4'-DDMU	NA	ND	0.223	0.5	ng/dry g							
4,4'-DDT	NA	ND	0.128	0.5	ng/dry g							
Aldrin	NA	ND	0.25	0.5	ng/dry g							
BHC-alpha	NA	ND	0.25	0.5	ng/dry g							
BHC-beta	NA	ND	0.25	0.5	ng/dry g							
BHC-delta	NA	ND	0.25	0.5	ng/dry g							
BHC-gamma	NA	ND	0.25	0.5	ng/dry g							
Chlordane-alpha	NA	ND	0.187	0.5	ng/dry g							
Chlordane-gamma	NA	ND	0.179	0.5	ng/dry g							
cis-Nonachlor	NA	ND	0.192	0.5	ng/dry g							
DCPA (Dacthal)	NA	ND	5	10	ng/dry g							
Dicofol	NA	ND	2.5	5	ng/dry g							
Dieldrin	NA	ND	0.1	0.2	ng/dry g							
Endosulfan Sulfate	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-I	NA	ND	0.25	0.5	ng/dry g							
Endosulfan-II	NA	ND	0.25	0.5	ng/dry g							
Endrin	NA	ND	0.25	0.5	ng/dry g							
Endrin Aldehyde	NA	ND	0.25	0.5	ng/dry g							
Endrin Ketone	NA	ND	0.25	0.5	ng/dry g							
Heptachlor	NA	ND	0.25	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	ND	0.25	0.5	ng/dry g							
Hexachlorobenzene	NA	ND	0.25	0.5	ng/dry g							
Methoxychlor	NA	ND	0.25	0.5	ng/dry g							
Mirex	NA	ND	0.25	0.5	ng/dry g							
Oxychlordane	NA	ND	0.25	0.5	ng/dry g							
Perthane	NA	ND	5	10	ng/dry g							
trans-Nonachlor	NA	ND	0.186	0.5	ng/dry g							
		Method: EPA 8270D-NCI			Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 22-Jan-19	
Toxaphene	NA	ND	10	20	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19	
(PCB030)	NA	69			% Recovery	100	0	69	50 - 123%	PASS		
(PCB112)	NA	77			% Recovery	100	0	77	53 - 129%	PASS		
(PCB198)	NA	98			% Recovery	100	0	98	51 - 131%	PASS		
(TCMX)	NA	51			% Recovery	100	0	51	45 - 117%	PASS		
2,4'-DDD	NA	433	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS		
2,4'-DDE	NA	404	0.2	0.5	ng/dry g	500	0	81	60 - 140%	PASS		
2,4'-DDT	NA	409	0.194	0.5	ng/dry g	500	0	82	60 - 140%	PASS		
4,4'-DDD	NA	568	0.198	0.5	ng/dry g	500	0	114	60 - 140%	PASS		
4,4'-DDE	NA	420	0.193	0.5	ng/dry g	500	0	84	60 - 140%	PASS		
4,4'-DDMU	NA	461	0.223	0.5	ng/dry g	500	0	92	60 - 140%	PASS		
4,4'-DDT	NA	576	0.128	0.5	ng/dry g	500	0	115	60 - 140%	PASS		
Aldrin	NA	471	0.25	0.5	ng/dry g	500	0	94	60 - 140%	PASS		
BHC-alpha	NA	336	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS		
BHC-beta	NA	405	0.25	0.5	ng/dry g	500	0	81	60 - 140%	PASS		
BHC-delta	NA	386	0.25	0.5	ng/dry g	500	0	77	60 - 140%	PASS		
BHC-gamma	NA	365	0.25	0.5	ng/dry g	500	0	73	60 - 140%	PASS		
Chlordane-alpha	NA	362	0.187	0.5	ng/dry g	500	0	72	60 - 140%	PASS		
Chlordane-gamma	NA	434	0.179	0.5	ng/dry g	500	0	87	60 - 140%	PASS		
cis-Nonachlor	NA	376	0.192	0.5	ng/dry g	500	0	75	60 - 140%	PASS		
DCPA (Dacthal)	NA	483	5	10	ng/dry g	500	0	97	60 - 140%	PASS		
Dicofol	NA	481	2.5	5	ng/dry g	500	0	96	60 - 140%	PASS		
Dieldrin	NA	389	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS		
Endosulfan Sulfate	NA	351	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS		
Endosulfan-I	NA	12.6	0.25	0.5	ng/dry g	500	0	3	60 - 140%	FAIL		Q
Endosulfan-II	NA	76.6	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL		Q
Endrin	NA	432	0.25	0.5	ng/dry g	500	0	86	60 - 140%	PASS		
Endrin Aldehyde	NA	62.3	0.25	0.5	ng/dry g	500	0	12	60 - 140%	FAIL		Q
Endrin Ketone	NA	498	0.25	0.5	ng/dry g	500	0	100	60 - 140%	PASS		
Heptachlor	NA	371	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Hexachlorobenzene	NA	334	0.25	0.5	ng/dry g	500	0	67	60 - 140%	PASS			
Methoxychlor	NA	713	0.25	0.5	ng/dry g	500	0	143	60 - 140%	FAIL			Q
Mirex	NA	450	0.25	0.5	ng/dry g	500	0	90	60 - 140%	PASS			
Oxychlordane	NA	422	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS			
Perthane	NA	651	5	10	ng/dry g	500	0	130	60 - 140%	PASS			
trans-Nonachlor	NA	374	0.186	0.5	ng/dry g	500	0	75	60 - 140%	PASS			
	Method:	EPA 8270D-NCI			Batch ID:	O-21014		Prepared:	10-Jan-19		Analyzed:	22-Jan-19	
Toxaphene	NA	5480	10	20	ng/dry g	5000	0	110	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 05-Feb-19			
(PCB030)	NA	73			% Recovery	100	0	73	50 - 123%	PASS	6	30	PASS	
(PCB112)	NA	75			% Recovery	100	0	75	53 - 129%	PASS	3	30	PASS	
(PCB198)	NA	95			% Recovery	100	0	95	51 - 131%	PASS	3	30	PASS	
(TCMX)	NA	58			% Recovery	100	0	58	45 - 117%	PASS	13	30	PASS	
2,4'-DDD	NA	435	0.267	0.5	ng/dry g	500	0	87	60 - 140%	PASS	0	30	PASS	
2,4'-DDE	NA	402	0.2	0.5	ng/dry g	500	0	80	60 - 140%	PASS	1	30	PASS	
2,4'-DDT	NA	417	0.194	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDD	NA	575	0.198	0.5	ng/dry g	500	0	115	60 - 140%	PASS	1	30	PASS	
4,4'-DDE	NA	417	0.193	0.5	ng/dry g	500	0	83	60 - 140%	PASS	1	30	PASS	
4,4'-DDMU	NA	451	0.223	0.5	ng/dry g	500	0	90	60 - 140%	PASS	2	30	PASS	
4,4'-DDT	NA	598	0.128	0.5	ng/dry g	500	0	120	60 - 140%	PASS	4	30	PASS	
Aldrin	NA	495	0.25	0.5	ng/dry g	500	0	99	60 - 140%	PASS	5	30	PASS	
BHC-alpha	NA	370	0.25	0.5	ng/dry g	500	0	74	60 - 140%	PASS	10	30	PASS	
BHC-beta	NA	418	0.25	0.5	ng/dry g	500	0	84	60 - 140%	PASS	4	30	PASS	
BHC-delta	NA	389	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	1	30	PASS	
BHC-gamma	NA	388	0.25	0.5	ng/dry g	500	0	78	60 - 140%	PASS	7	30	PASS	
Chlordane-alpha	NA	372	0.187	0.5	ng/dry g	500	0	74	60 - 140%	PASS	3	30	PASS	
Chlordane-gamma	NA	440	0.179	0.5	ng/dry g	500	0	88	60 - 140%	PASS	1	30	PASS	
cis-Nonachlor	NA	379	0.192	0.5	ng/dry g	500	0	76	60 - 140%	PASS	1	30	PASS	
DCPA (Dacthal)	NA	497	5	10	ng/dry g	500	0	99	60 - 140%	PASS	2	30	PASS	
Dicofol	NA	587	2.5	5	ng/dry g	500	0	117	60 - 140%	PASS	20	30	PASS	
Dieldrin	NA	392	0.1	0.2	ng/dry g	500	0	78	60 - 140%	PASS	0	30	PASS	
Endosulfan Sulfate	NA	361	0.25	0.5	ng/dry g	500	0	72	60 - 140%	PASS	3	30	PASS	
Endosulfan-I	NA	12.1	0.25	0.5	ng/dry g	500	0	2	60 - 140%	FAIL	40	30	FAIL	Q
Endosulfan-II	NA	77.3	0.25	0.5	ng/dry g	500	0	15	60 - 140%	FAIL	0	30	PASS	Q
Endrin	NA	446	0.25	0.5	ng/dry g	500	0	89	60 - 140%	PASS	3	30	PASS	
Endrin Aldehyde	NA	104	0.25	0.5	ng/dry g	500	0	21	60 - 140%	FAIL	55	30	FAIL	Q
Endrin Ketone	NA	509	0.25	0.5	ng/dry g	500	0	102	60 - 140%	PASS	2	30	PASS	
Heptachlor	NA	411	0.25	0.5	ng/dry g	500	0	82	60 - 140%	PASS	10	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	NA	453	0.25	0.5	ng/dry g	500	0	91	60 - 140%	PASS	8	30	PASS	
Hexachlorobenzene	NA	348	0.25	0.5	ng/dry g	500	0	70	60 - 140%	PASS	4	30	PASS	
Methoxychlor	NA	728	0.25	0.5	ng/dry g	500	0	146	60 - 140%	FAIL	2	30	PASS	Q
Mirex	NA	442	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	2	30	PASS	
Oxychlordane	NA	441	0.25	0.5	ng/dry g	500	0	88	60 - 140%	PASS	5	30	PASS	
Perthane	NA	672	5	10	ng/dry g	500	0	134	60 - 140%	PASS	3	30	PASS	
trans-Nonachlor	NA	383	0.186	0.5	ng/dry g	500	0	77	60 - 140%	PASS	3	30	PASS	
	Method: EPA 8270D-NCI				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 22-Jan-19		
Toxaphene	NA	5550	10	20	ng/dry g	5000	0	111	60 - 140%	PASS	1	30	PASS	
Sample ID: 58906-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**				**Received:**		
	Method: EPA 8270D				Batch ID: O-21014			Prepared: 10-Jan-19				Analyzed: 05-Feb-19		
(PCB030)	NA	92			% Recovery	100		92	33 - 149%	PASS				
(PCB112)	NA	95			% Recovery	100		95	49 - 120%	PASS				
(PCB198)	NA	54			% Recovery	100		54	35 - 123%	PASS				
(TCMX)	NA	94			% Recovery	100		94	37 - 138%	PASS				
2,4'-DDD	NA	39.5	0.267	0.5	ng/dry g	38		104	60 - 140%	PASS				
2,4'-DDE	NA	25.1	0.2	0.5	ng/dry g	19		132	60 - 140%	PASS				
4,4'-DDD	NA	136	0.198	0.5	ng/dry g	108		126	60 - 140%	PASS				
4,4'-DDE	NA	113	0.193	0.5	ng/dry g	86		131	60 - 140%	PASS				
4,4'-DDT	NA	166	0.128	0.5	ng/dry g	170		98	60 - 140%	PASS				
Chlordane-alpha	NA	21.1	0.187	0.5	ng/dry g	16.5		128	60 - 140%	PASS				
Chlordane-gamma	NA	30.2	0.179	0.5	ng/dry g	19		159	60 - 140%	FAIL				1
cis-Nonachlor	NA	3.92	0.192	0.5	ng/dry g	3.7		106	60 - 140%	PASS				
Hexachlorobenzene	NA	6	0.25	0.5	ng/dry g	6		100	60 - 140%	PASS				
trans-Nonachlor	NA	11.3	0.186	0.5	ng/dry g	8.2		138	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	ND	1	5	µg/dry g							
Antimony (Sb)	NA	ND	0.025	0.05	µg/dry g							
Arsenic (As)	NA	ND	0.025	0.05	µg/dry g							
Barium (Ba)	NA	ND	0.025	0.05	µg/dry g							
Beryllium (Be)	NA	ND	0.025	0.05	µg/dry g							
Cadmium (Cd)	NA	ND	0.0025	0.005	µg/dry g							
Chromium (Cr)	NA	ND	0.0025	0.005	µg/dry g							
Copper (Cu)	NA	ND	0.0025	0.005	µg/dry g							
Iron (Fe)	NA	ND	1	5	µg/dry g							
Lead (Pb)	NA	ND	0.0025	0.005	µg/dry g							
Nickel (Ni)	NA	ND	0.01	0.02	µg/dry g							
Selenium (Se)	NA	ND	0.025	0.05	µg/dry g							
Silver (Ag)	NA	ND	0.01	0.02	µg/dry g							
Zinc (Zn)	NA	ND	0.025	0.05	µg/dry g							
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	ND	1E-05	0.00002	µg/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	1.78	1	5	µg/dry g	2	0	89	70 - 130%	PASS		
Antimony (Sb)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS		
Arsenic (As)	NA	1.96	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
Barium (Ba)	NA	2.05	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS		
Beryllium (Be)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS		
Cadmium (Cd)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS		
Chromium (Cr)	NA	2.01	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS		
Copper (Cu)	NA	2.03	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Iron (Fe)	NA	1.91	1	5	µg/dry g	2	0	95	70 - 130%	PASS		
Lead (Pb)	NA	2.02	0.0025	0.005	µg/dry g	2	0	101	70 - 130%	PASS		
Nickel (Ni)	NA	1.96	0.01	0.02	µg/dry g	2	0	98	70 - 130%	PASS		
Selenium (Se)	NA	2	0.025	0.05	µg/dry g	2	0	100	70 - 130%	PASS		
Silver (Ag)	NA	0.201	0.01	0.02	µg/dry g	0.2	0	100	70 - 130%	PASS		
Zinc (Zn)	NA	1.95	0.025	0.05	µg/dry g	2	0	98	70 - 130%	PASS		
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	1080	1E-05	0.00002	µg/dry g	1000	0	108	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18					Analyzed: 08-Feb-19		
Aluminum (Al)	NA	2.35	1	5	µg/dry g	2	0	117	70 - 130%	PASS	27	30	PASS	Q
Antimony (Sb)	NA	2.04	0.025	0.05	µg/dry g	2	0	102	70 - 130%	PASS	0	30	PASS	
Arsenic (As)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30	PASS	
Barium (Ba)	NA	2.07	0.025	0.05	µg/dry g	2	0	103	70 - 130%	PASS	2	30	PASS	
Beryllium (Be)	NA	1.98	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	1	30	PASS	
Cadmium (Cd)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS	
Chromium (Cr)	NA	2	0.0025	0.005	µg/dry g	2	0	100	70 - 130%	PASS	0	30	PASS	
Copper (Cu)	NA	2.06	0.0025	0.005	µg/dry g	2	0	103	70 - 130%	PASS	1	30	PASS	
Iron (Fe)	NA	2.46	1	5	µg/dry g	2	0	123	70 - 130%	PASS	25	30	PASS	
Lead (Pb)	NA	2.04	0.0025	0.005	µg/dry g	2	0	102	70 - 130%	PASS	1	30	PASS	
Nickel (Ni)	NA	1.97	0.01	0.02	µg/dry g	2	0	99	70 - 130%	PASS	0	30	PASS	
Selenium (Se)	NA	2.03	0.025	0.05	µg/dry g	2	0	101	70 - 130%	PASS	2	30	PASS	
Silver (Ag)	NA	0.209	0.01	0.02	µg/dry g	0.2	0	104	70 - 130%	PASS	4	30	PASS	
Zinc (Zn)	NA	1.97	0.025	0.05	µg/dry g	2	0	99	70 - 130%	PASS	0	30	PASS	
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19					Analyzed: 11-Jan-19		
Mercury (Hg)	NA	1090	1E-05	0.00002	µg/dry g	1000	0	109	70 - 130%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58905-CRM1	**QAQC CRM - ERA D099-540**				**Matrix: Sediment**		**Sampled:**				**Received:**	
	Method: EPA 6020				Batch ID: E-14073		Prepared: 24-Dec-18				Analyzed: 08-Feb-19	
Aluminum (Al)	NA	13700	1	5	µg/dry g	10100	136	42 - 124%	FAIL			
Antimony (Sb)	NA	113	0.025	0.05	µg/dry g	145	78	10 - 137%	PASS			
Arsenic (As)	NA	179	0.025	0.05	µg/dry g	171	105	66 - 122%	PASS			
Beryllium (Be)	NA	109	0.025	0.05	µg/dry g	102	107	72 - 120%	PASS			
Cadmium (Cd)	NA	220	0.0025	0.005	µg/dry g	225	98	70 - 117%	PASS			
Chromium (Cr)	NA	166	0.0025	0.005	µg/dry g	144	115	66 - 123%	PASS			
Copper (Cu)	NA	177	0.0025	0.005	µg/dry g	174	102	71 - 119%	PASS			
Iron (Fe)	NA	23700	1	5	µg/dry g	15000	158	33 - 155%	FAIL			
Lead (Pb)	NA	109	0.0025	0.005	µg/dry g	111	98	71 - 129%	PASS			
Nickel (Ni)	NA	97.3	0.01	0.02	µg/dry g	98.3	99	65 - 121%	PASS			
Selenium (Se)	NA	217	0.025	0.05	µg/dry g	206	105	64 - 122%	PASS			
Silver (Ag)	NA	43.1	0.01	0.02	µg/dry g	45.5	95	66 - 124%	PASS			
Zinc (Zn)	NA	215	0.025	0.05	µg/dry g	207	104	67 - 125%	PASS			
	Method: EPA 245.7				Batch ID: E-15090		Prepared: 11-Jan-19				Analyzed: 11-Jan-19	
Mercury (Hg)	NA	10.4	1E-05	0.00002	µg/dry g	12	87	57 - 133%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements - AVS/SEM

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	ND	0.0018	0.0036	µmol/dry g									
Copper (Cu) - SEM	NA	ND	0.0062	0.0124	µmol/dry g									
Lead (Pb) - SEM	NA	ND	0.0002	0.0004	µmol/dry g									
Nickel (Ni) - SEM	NA	ND	0.0033	0.0066	µmol/dry g									
Silver (Ag) - SEM	NA	ND	0.0047	0.0094	µmol/dry g									
Zinc (Zn) - SEM	NA	ND	0.0015	0.003	µmol/dry g									
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00903	0.0018	0.0036	µmol/dry g	0.0089	0	101	80 - 120%	PASS				
Copper (Cu) - SEM	NA	0.0167	0.0062	0.0124	µmol/dry g	0.0157	0	106	80 - 120%	PASS				
Lead (Pb) - SEM	NA	0.0047	0.0002	0.0004	µmol/dry g	0.0048	0	97	80 - 120%	PASS				
Nickel (Ni) - SEM	NA	0.0168	0.0033	0.0066	µmol/dry g	0.017	0	99	80 - 120%	PASS				
Silver (Ag) - SEM	NA	0.000861	0.0047	0.0094	µmol/dry g	0.0009	0	93	80 - 120%	PASS				
Zinc (Zn) - SEM	NA	0.0155	0.0015	0.003	µmol/dry g	0.0153	0	101	80 - 120%	PASS				
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 200.8				Batch ID: E-17005		Prepared: 14-Jan-19					Analyzed: 15-Jan-19		
Cadmium (Cd) - SEM	NA	0.00901	0.0018	0.0036	µmol/dry g	0.0089	0	101	80 - 120%	PASS	0	25	PASS	
Copper (Cu) - SEM	NA	0.0166	0.0062	0.0124	µmol/dry g	0.0157	0	106	80 - 120%	PASS	0	25	PASS	
Lead (Pb) - SEM	NA	0.00473	0.0002	0.0004	µmol/dry g	0.0048	0	98	80 - 120%	PASS	1	25	PASS	
Nickel (Ni) - SEM	NA	0.0169	0.0033	0.0066	µmol/dry g	0.017	0	99	80 - 120%	PASS	0	25	PASS	
Silver (Ag) - SEM	NA	0.000866	0.0047	0.0094	µmol/dry g	0.0009	0	93	80 - 120%	PASS	0	25	PASS	
Zinc (Zn) - SEM	NA	0.0159	0.0015	0.003	µmol/dry g	0.0153	0	104	80 - 120%	PASS	3	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19	
Fipronil	NA	ND	0.25	0.5	ng/dry g								
Fipronil Desulfinyl	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfide	NA	ND	0.25	0.5	ng/dry g								
Fipronil Sulfone	NA	ND	0.25	0.5	ng/dry g								
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19	
Fipronil	NA	45.4	0.25	0.5	ng/dry g	50	0	91	60 - 140%	PASS			
Fipronil Desulfinyl	NA	48.7	0.25	0.5	ng/dry g	50	0	97	60 - 140%	PASS			
Fipronil Sulfide	NA	48.2	0.25	0.5	ng/dry g	50	0	96	60 - 140%	PASS			
Fipronil Sulfone	NA	35.3	0.25	0.5	ng/dry g	50	0	71	60 - 140%	PASS			
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 22-Jan-19	
Fipronil	NA	52.2	0.25	0.5	ng/dry g	50	0	104	60 - 140%	PASS	13	30	PASS
Fipronil Desulfinyl	NA	43.4	0.25	0.5	ng/dry g	50	0	87	60 - 140%	PASS	11	30	PASS
Fipronil Sulfide	NA	53	0.25	0.5	ng/dry g	50	0	106	60 - 140%	PASS	10	30	PASS
Fipronil Sulfone	NA	42.9	0.25	0.5	ng/dry g	50	0	86	60 - 140%	PASS	19	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Particle Size Distribution — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: SM 2560 D				Batch ID: P-1108		Prepared: 14-Jan-19			Analyzed: 14-Jan-19		
Gravel	NA	ND	0.1	0.1	%							
Phi 0.0	NA	ND	0.1	0.1	%							
Phi 0.5	NA	ND	0.1	0.1	%							
Phi 1.0	NA	ND	0.1	0.1	%							
Phi 1.5	NA	ND	0.1	0.1	%							
Phi 10.0	NA	ND	0.1	0.1	%							
Phi 10.5	NA	ND	0.1	0.1	%							
Phi 11.0	NA	ND	0.1	0.1	%							
Phi 11.5	NA	ND	0.1	0.1	%							
Phi 12.0	NA	ND	0.1	0.1	%							
Phi 12.5	NA	ND	0.1	0.1	%							
Phi 13.0	NA	ND	0.1	0.1	%							
Phi 13.5	NA	ND	0.1	0.1	%							
Phi 2.0	NA	ND	0.1	0.1	%							
Phi 2.5	NA	ND	0.1	0.1	%							
Phi 3.0	NA	ND	0.1	0.1	%							
Phi 3.5	NA	ND	0.1	0.1	%							
Phi 4.0	NA	ND	0.1	0.1	%							
Phi 4.5	NA	ND	0.1	0.1	%							
Phi 5.0	NA	ND	0.1	0.1	%							
Phi 5.5	NA	ND	0.1	0.1	%							
Phi 6.0	NA	ND	0.1	0.1	%							
Phi 6.5	NA	ND	0.1	0.1	%							
Phi 7.0	NA	ND	0.1	0.1	%							
Phi 7.5	NA	ND	0.1	0.1	%							
Phi 8.0	NA	ND	0.1	0.1	%							
Phi 8.5	NA	ND	0.1	0.1	%							
Phi 9.0	NA	ND	0.1	0.1	%							
Phi 9.5	NA	ND	0.1	0.1	%							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB003	NA	ND	0.1	0.2	ng/dry g							
PCB005	NA	ND	0.1	0.2	ng/dry g							
PCB008	NA	ND	0.017	0.2	ng/dry g							
PCB015	NA	ND	0.1	0.2	ng/dry g							
PCB018	NA	ND	0.029	0.2	ng/dry g							
PCB027	NA	ND	0.1	0.2	ng/dry g							
PCB028	NA	ND	0.023	0.2	ng/dry g							
PCB029	NA	ND	0.1	0.2	ng/dry g							
PCB031	NA	ND	0.1	0.2	ng/dry g							
PCB033	NA	ND	0.1	0.2	ng/dry g							
PCB037	NA	ND	0.06	0.2	ng/dry g							
PCB044	NA	ND	0.028	0.2	ng/dry g							
PCB049	NA	ND	0.036	0.2	ng/dry g							
PCB052	NA	ND	0.012	0.2	ng/dry g							
PCB056(060)	NA	ND	0.1	0.2	ng/dry g							
PCB066	NA	ND	0.027	0.2	ng/dry g							
PCB070	NA	ND	0.023	0.2	ng/dry g							
PCB074	NA	ND	0.021	0.2	ng/dry g							
PCB077	NA	ND	0.018	0.2	ng/dry g							
PCB081	NA	ND	0.084	0.2	ng/dry g							
PCB087	NA	ND	0.081	0.2	ng/dry g							
PCB095	NA	ND	0.1	0.2	ng/dry g							
PCB097	NA	ND	0.1	0.2	ng/dry g							
PCB099	NA	ND	0.028	0.2	ng/dry g							
PCB101	NA	ND	0.027	0.2	ng/dry g							
PCB105	NA	ND	0.047	0.2	ng/dry g							
PCB110	NA	ND	0.074	0.2	ng/dry g							
PCB114	NA	ND	0.072	0.2	ng/dry g							
PCB118	NA	ND	0.069	0.2	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	ND	0.071	0.2	ng/dry g							
PCB123	NA	ND	0.018	0.2	ng/dry g							
PCB126	NA	ND	0.086	0.2	ng/dry g							
PCB128	NA	ND	0.081	0.2	ng/dry g							
PCB137	NA	ND	0.1	0.2	ng/dry g							
PCB138	NA	ND	0.057	0.2	ng/dry g							
PCB141	NA	ND	0.1	0.2	ng/dry g							
PCB149	NA	ND	0.092	0.2	ng/dry g							
PCB151	NA	ND	0.073	0.2	ng/dry g							
PCB153	NA	ND	0.065	0.2	ng/dry g							
PCB156	NA	ND	0.089	0.2	ng/dry g							
PCB157	NA	ND	0.103	0.2	ng/dry g							
PCB158	NA	ND	0.074	0.2	ng/dry g							
PCB167	NA	ND	0.049	0.2	ng/dry g							
PCB168+132	NA	ND	0.094	0.2	ng/dry g							
PCB169	NA	ND	0.116	0.2	ng/dry g							
PCB170	NA	ND	0.118	0.25	ng/dry g							
PCB174	NA	ND	0.12	0.25	ng/dry g							
PCB177	NA	ND	0.085	0.25	ng/dry g							
PCB180	NA	ND	0.154	0.25	ng/dry g							
PCB183	NA	ND	0.056	0.25	ng/dry g							
PCB187	NA	ND	0.168	0.25	ng/dry g							
PCB189	NA	ND	0.109	0.25	ng/dry g							
PCB194	NA	ND	0.164	0.25	ng/dry g							
PCB195	NA	ND	0.093	0.25	ng/dry g							
PCB199(200)	NA	ND	0.12	0.25	ng/dry g							
PCB201	NA	ND	0.104	0.25	ng/dry g							
PCB203	NA	ND	0.12	0.25	ng/dry g							
PCB206	NA	ND	0.155	0.25	ng/dry g							
PCB209	NA	ND	0.12	0.25	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB003	NA	29.9	0.1	0.2	ng/dry g	50	0	60	60 - 140% PASS			Q
PCB005	NA	33.7	0.1	0.2	ng/dry g	50	0	67	60 - 140% PASS			Q
PCB008	NA	36.8	0.017	0.2	ng/dry g	50	0	74	60 - 140% PASS			
PCB015	NA	47.3	0.1	0.2	ng/dry g	50	0	95	60 - 140% PASS			
PCB018	NA	42.9	0.029	0.2	ng/dry g	50	0	86	60 - 140% PASS			
PCB027	NA	45.1	0.1	0.2	ng/dry g	50	0	90	60 - 140% PASS			
PCB028	NA	46.8	0.023	0.2	ng/dry g	50	0	94	60 - 140% PASS			
PCB029	NA	51.4	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB031	NA	51.5	0.1	0.2	ng/dry g	50	0	103	60 - 140% PASS			
PCB033	NA	52.3	0.1	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140% PASS			
PCB044	NA	49.5	0.028	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB049	NA	49.7	0.036	0.2	ng/dry g	50	0	99	60 - 140% PASS			
PCB052	NA	48.4	0.012	0.2	ng/dry g	50	0	97	60 - 140% PASS			
PCB056(060)	NA	50.3	0.1	0.2	ng/dry g	50	0	101	60 - 140% PASS			
PCB066	NA	54.8	0.027	0.2	ng/dry g	50	0	110	60 - 140% PASS			
PCB070	NA	57.6	0.023	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB074	NA	54.5	0.021	0.2	ng/dry g	50	0	109	60 - 140% PASS			
PCB077	NA	58.9	0.018	0.2	ng/dry g	50	0	118	60 - 140% PASS			
PCB081	NA	57.3	0.084	0.2	ng/dry g	50	0	115	60 - 140% PASS			
PCB087	NA	53.9	0.081	0.2	ng/dry g	50	0	108	60 - 140% PASS			
PCB095	NA	48.2	0.1	0.2	ng/dry g	50	0	96	60 - 140% PASS			
PCB097	NA	57.1	0.1	0.2	ng/dry g	50	0	114	60 - 140% PASS			
PCB099	NA	49.2	0.028	0.2	ng/dry g	50	0	98	60 - 140% PASS			
PCB101	NA	50	0.027	0.2	ng/dry g	50	0	100	60 - 140% PASS			
PCB105	NA	44.5	0.047	0.2	ng/dry g	50	0	89	60 - 140% PASS			
PCB110	NA	52.5	0.074	0.2	ng/dry g	50	0	105	60 - 140% PASS			
PCB114	NA	51.2	0.072	0.2	ng/dry g	50	0	102	60 - 140% PASS			
PCB118	NA	51.3	0.069	0.2	ng/dry g	50	0	103	60 - 140% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	NA	50.7	0.071	0.2	ng/dry g	50	0	101	60 - 140%	PASS			
PCB123	NA	48.6	0.018	0.2	ng/dry g	50	0	97	60 - 140%	PASS			
PCB126	NA	53.1	0.086	0.2	ng/dry g	50	0	106	60 - 140%	PASS			
PCB128	NA	55.5	0.081	0.2	ng/dry g	50	0	111	60 - 140%	PASS			
PCB137	NA	45.7	0.1	0.2	ng/dry g	50	0	91	60 - 140%	PASS			
PCB138	NA	47.2	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS			
PCB141	NA	43.9	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS			
PCB149	NA	44.7	0.092	0.2	ng/dry g	50	0	89	60 - 140%	PASS			
PCB151	NA	59.6	0.073	0.2	ng/dry g	50	0	119	60 - 140%	PASS			
PCB153	NA	51.2	0.065	0.2	ng/dry g	50	0	102	60 - 140%	PASS			
PCB156	NA	65.6	0.089	0.2	ng/dry g	50	0	131	60 - 140%	PASS			
PCB157	NA	48.8	0.103	0.2	ng/dry g	50	0	98	60 - 140%	PASS			
PCB158	NA	47.6	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS			
PCB167	NA	55.9	0.049	0.2	ng/dry g	50	0	112	60 - 140%	PASS			
PCB168+132	NA	88.4	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS			
PCB169	NA	76.4	0.116	0.2	ng/dry g	50	0	153	60 - 140%	FAIL			Q
PCB170	NA	58.8	0.118	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB174	NA	55	0.12	0.25	ng/dry g	50	0	110	60 - 140%	PASS			
PCB177	NA	60.5	0.085	0.25	ng/dry g	50	0	121	60 - 140%	PASS			
PCB180	NA	67.4	0.154	0.25	ng/dry g	50	0	135	60 - 140%	PASS			
PCB183	NA	55.7	0.056	0.25	ng/dry g	50	0	111	60 - 140%	PASS			
PCB187	NA	59.1	0.168	0.25	ng/dry g	50	0	118	60 - 140%	PASS			
PCB189	NA	73	0.109	0.25	ng/dry g	50	0	146	60 - 140%	FAIL			Q
PCB194	NA	82.7	0.164	0.25	ng/dry g	50	0	165	60 - 140%	FAIL			
PCB195	NA	66.3	0.093	0.25	ng/dry g	50	0	133	60 - 140%	PASS			
PCB199(200)	NA	57.5	0.12	0.25	ng/dry g	50	0	115	60 - 140%	PASS			
PCB201	NA	44.6	0.104	0.25	ng/dry g	50	0	89	60 - 140%	PASS			
PCB203	NA	61	0.12	0.25	ng/dry g	50	0	122	60 - 140%	PASS			
PCB206	NA	79.1	0.155	0.25	ng/dry g	50	0	158	60 - 140%	FAIL			
PCB209	NA	67.3	0.12	0.25	ng/dry g	50	0	135	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 05-Feb-19		
PCB003	NA	34.8	0.1	0.2	ng/dry g	50	0	70	60 - 140%	PASS	15	30	PASS	
PCB005	NA	38.2	0.1	0.2	ng/dry g	50	0	76	60 - 140%	PASS	13	30	PASS	
PCB008	NA	39.2	0.017	0.2	ng/dry g	50	0	78	60 - 140%	PASS	5	30	PASS	
PCB015	NA	48.9	0.1	0.2	ng/dry g	50	0	98	60 - 140%	PASS	3	30	PASS	
PCB018	NA	46.1	0.029	0.2	ng/dry g	50	0	92	60 - 140%	PASS	7	30	PASS	
PCB027	NA	46.7	0.1	0.2	ng/dry g	50	0	93	60 - 140%	PASS	3	30	PASS	
PCB028	NA	47	0.023	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB029	NA	52.9	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	3	30	PASS	
PCB031	NA	52.2	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS	
PCB033	NA	53	0.1	0.2	ng/dry g	50	0	106	60 - 140%	PASS	1	30	PASS	
PCB037	NA	52.8	0.06	0.2	ng/dry g	50	0	106	60 - 140%	PASS	0	30	PASS	
PCB044	NA	51.1	0.028	0.2	ng/dry g	50	0	102	60 - 140%	PASS	3	30	PASS	
PCB049	NA	50.5	0.036	0.2	ng/dry g	50	0	101	60 - 140%	PASS	2	30	PASS	
PCB052	NA	51.7	0.012	0.2	ng/dry g	50	0	103	60 - 140%	PASS	6	30	PASS	
PCB056(060)	NA	51.8	0.1	0.2	ng/dry g	50	0	104	60 - 140%	PASS	3	30	PASS	
PCB066	NA	54.9	0.027	0.2	ng/dry g	50	0	110	60 - 140%	PASS	0	30	PASS	
PCB070	NA	57.5	0.023	0.2	ng/dry g	50	0	115	60 - 140%	PASS	0	30	PASS	
PCB074	NA	54.6	0.021	0.2	ng/dry g	50	0	109	60 - 140%	PASS	0	30	PASS	
PCB077	NA	60.3	0.018	0.2	ng/dry g	50	0	121	60 - 140%	PASS	3	30	PASS	
PCB081	NA	60.2	0.084	0.2	ng/dry g	50	0	120	60 - 140%	PASS	4	30	PASS	
PCB087	NA	57.2	0.081	0.2	ng/dry g	50	0	114	60 - 140%	PASS	5	30	PASS	
PCB095	NA	49.4	0.1	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB097	NA	59.8	0.1	0.2	ng/dry g	50	0	120	60 - 140%	PASS	5	30	PASS	
PCB099	NA	49.9	0.028	0.2	ng/dry g	50	0	100	60 - 140%	PASS	2	30	PASS	
PCB101	NA	51.5	0.027	0.2	ng/dry g	50	0	103	60 - 140%	PASS	3	30	PASS	
PCB105	NA	43.7	0.047	0.2	ng/dry g	50	0	87	60 - 140%	PASS	2	30	PASS	
PCB110	NA	53.7	0.074	0.2	ng/dry g	50	0	107	60 - 140%	PASS	2	30	PASS	
PCB114	NA	53.1	0.072	0.2	ng/dry g	50	0	106	60 - 140%	PASS	4	30	PASS	
PCB118	NA	51.9	0.069	0.2	ng/dry g	50	0	104	60 - 140%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	NA	52.3	0.071	0.2	ng/dry g	50	0	105	60 - 140%	PASS	4	30	PASS	
PCB123	NA	50	0.018	0.2	ng/dry g	50	0	100	60 - 140%	PASS	3	30	PASS	
PCB126	NA	54.6	0.086	0.2	ng/dry g	50	0	109	60 - 140%	PASS	3	30	PASS	
PCB128	NA	54.7	0.081	0.2	ng/dry g	50	0	109	60 - 140%	PASS	2	30	PASS	
PCB137	NA	46.2	0.1	0.2	ng/dry g	50	0	92	60 - 140%	PASS	1	30	PASS	
PCB138	NA	46.9	0.057	0.2	ng/dry g	50	0	94	60 - 140%	PASS	0	30	PASS	
PCB141	NA	44	0.1	0.2	ng/dry g	50	0	88	60 - 140%	PASS	0	30	PASS	
PCB149	NA	46.2	0.092	0.2	ng/dry g	50	0	92	60 - 140%	PASS	3	30	PASS	
PCB151	NA	62	0.073	0.2	ng/dry g	50	0	124	60 - 140%	PASS	4	30	PASS	
PCB153	NA	49.3	0.065	0.2	ng/dry g	50	0	99	60 - 140%	PASS	3	30	PASS	
PCB156	NA	64.5	0.089	0.2	ng/dry g	50	0	129	60 - 140%	PASS	2	30	PASS	
PCB157	NA	48	0.103	0.2	ng/dry g	50	0	96	60 - 140%	PASS	2	30	PASS	
PCB158	NA	47.7	0.074	0.2	ng/dry g	50	0	95	60 - 140%	PASS	0	30	PASS	
PCB167	NA	57.2	0.049	0.2	ng/dry g	50	0	114	60 - 140%	PASS	2	30	PASS	
PCB168+132	NA	87.7	0.094	0.2	ng/dry g	100	0	88	60 - 140%	PASS	0	30	PASS	
PCB169	NA	73.8	0.116	0.2	ng/dry g	50	0	148	60 - 140%	FAIL	3	30	PASS	Q
PCB170	NA	56.7	0.118	0.25	ng/dry g	50	0	113	60 - 140%	PASS	4	30	PASS	
PCB174	NA	53.6	0.12	0.25	ng/dry g	50	0	107	60 - 140%	PASS	3	30	PASS	
PCB177	NA	59.9	0.085	0.25	ng/dry g	50	0	120	60 - 140%	PASS	1	30	PASS	
PCB180	NA	65.5	0.154	0.25	ng/dry g	50	0	131	60 - 140%	PASS	3	30	PASS	
PCB183	NA	55.8	0.056	0.25	ng/dry g	50	0	112	60 - 140%	PASS	1	30	PASS	
PCB187	NA	59.5	0.168	0.25	ng/dry g	50	0	119	60 - 140%	PASS	1	30	PASS	
PCB189	NA	72.2	0.109	0.25	ng/dry g	50	0	144	60 - 140%	FAIL	1	30	PASS	Q
PCB194	NA	80.3	0.164	0.25	ng/dry g	50	0	161	60 - 140%	FAIL	2	30	PASS	
PCB195	NA	67.1	0.093	0.25	ng/dry g	50	0	134	60 - 140%	PASS	1	30	PASS	
PCB199(200)	NA	56	0.12	0.25	ng/dry g	50	0	112	60 - 140%	PASS	3	30	PASS	
PCB201	NA	43.1	0.104	0.25	ng/dry g	50	0	86	60 - 140%	PASS	3	30	PASS	
PCB203	NA	56.7	0.12	0.25	ng/dry g	50	0	113	60 - 140%	PASS	8	30	PASS	
PCB206	NA	73.5	0.155	0.25	ng/dry g	50	0	147	60 - 140%	FAIL	7	30	PASS	
PCB209	NA	62.5	0.12	0.25	ng/dry g	50	0	125	60 - 140%	PASS	8	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58906-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**			**Received:**		
	Method: EPA 8270D				Batch ID: O-21014		Prepared: 10-Jan-19			Analyzed: 05-Feb-19		
PCB008	NA	29.1	0.017	0.2	ng/dry g	22.3	130	60 - 140%	PASS			
PCB018	NA	56.6	0.029	0.2	ng/dry g	51	111	60 - 140%	PASS			
PCB028	NA	88.9	0.023	0.2	ng/dry g	80.8	110	60 - 140%	PASS			
PCB044	NA	44.6	0.028	0.2	ng/dry g	60.2	74	60 - 140%	PASS			
PCB049	NA	41.1	0.036	0.2	ng/dry g	53	78	60 - 140%	PASS			
PCB052	NA	71.1	0.012	0.2	ng/dry g	79.4	90	60 - 140%	PASS			
PCB066	NA	52.8	0.027	0.2	ng/dry g	71.9	73	60 - 140%	PASS			
PCB087	NA	20.7	0.081	0.2	ng/dry g	29.9	69	60 - 140%	PASS			
PCB099	NA	22.9	0.028	0.2	ng/dry g	37.5	61	60 - 140%	PASS			
PCB101	NA	53.2	0.027	0.2	ng/dry g	73.4	72	60 - 140%	PASS			
PCB105	NA	10.1	0.047	0.2	ng/dry g	24.5	41	60 - 140%	FAIL			1
PCB110	NA	45.3	0.074	0.2	ng/dry g	63.5	71	60 - 140%	PASS			
PCB118	NA	30.9	0.069	0.2	ng/dry g	58	53	60 - 140%	FAIL			1
PCB128	NA	5.23	0.081	0.2	ng/dry g	8.5	62	60 - 140%	PASS			
PCB138	NA	48.5	0.057	0.2	ng/dry g	62.1	78	60 - 140%	PASS			
PCB149	NA	34.7	0.092	0.2	ng/dry g	49.7	70	60 - 140%	PASS			
PCB151	NA	14.1	0.073	0.2	ng/dry g	16.9	83	60 - 140%	PASS			
PCB153	NA	54.7	0.065	0.2	ng/dry g	74	74	60 - 140%	PASS			
PCB156	NA	2.65	0.089	0.2	ng/dry g	6.5	41	60 - 140%	FAIL			1
PCB170	NA	19.2	0.118	0.25	ng/dry g	22.6	85	60 - 140%	PASS			
PCB174	NA	16.4	0.12	0.25	ng/dry g	16	102	60 - 140%	PASS			
PCB180	NA	33.1	0.154	0.25	ng/dry g	44.3	75	60 - 140%	PASS			
PCB183	NA	10.4	0.056	0.25	ng/dry g	12.2	85	60 - 140%	PASS			
PCB187	NA	24	0.168	0.25	ng/dry g	25.1	96	60 - 140%	PASS			
PCB194	NA	11.1	0.164	0.25	ng/dry g	11.2	99	60 - 140%	PASS			
PCB195	NA	3.4	0.093	0.25	ng/dry g	3.8	89	60 - 140%	PASS			
PCB206	NA	6.35	0.155	0.25	ng/dry g	9.2	69	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	103			% Recovery	100	103	63 - 146%	PASS			
(FTBDE)	NA	100			% Recovery	100	100	53 - 138%	PASS			
PBDE017	NA	ND	0.05	0.1	ng/dry g							
PBDE028	NA	ND	0.05	0.1	ng/dry g							
PBDE047	NA	ND	0.05	0.1	ng/dry g							
PBDE049	NA	ND	0.05	0.1	ng/dry g							
PBDE066	NA	ND	0.05	0.1	ng/dry g							
PBDE085	NA	ND	0.05	0.1	ng/dry g							
PBDE099	NA	ND	0.05	0.1	ng/dry g							
PBDE100	NA	ND	0.05	0.1	ng/dry g							
PBDE138	NA	ND	0.05	0.1	ng/dry g							
PBDE153	NA	ND	0.05	0.1	ng/dry g							
PBDE154	NA	ND	0.05	0.1	ng/dry g							
PBDE183	NA	ND	0.05	0.1	ng/dry g							
PBDE190	NA	ND	0.05	0.1	ng/dry g							
PBDE209	NA	ND	0.05	0.1	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS		
(FTBDE)	NA	97			% Recovery	100	0	97	53 - 138%	PASS		
PBDE017	NA	49.8	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE028	NA	54.7	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS		
PBDE047	NA	52.9	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE049	NA	46.9	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE066	NA	53.1	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS		
PBDE085	NA	51.2	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS		
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS		
PBDE100	NA	51.7	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS		
PBDE138	NA	44.2	0.05	0.1	ng/dry g	50	0	88	60 - 140%	PASS		
PBDE153	NA	48.7	0.05	0.1	ng/dry g	50	0	97	60 - 140%	PASS		
PBDE154	NA	47.1	0.05	0.1	ng/dry g	50	0	94	60 - 140%	PASS		
PBDE183	NA	45.6	0.05	0.1	ng/dry g	50	0	91	60 - 140%	PASS		
PBDE190	NA	44.5	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS		
PBDE209	NA	238	0.05	0.1	ng/dry g	250	0	95	60 - 140%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 23-Jan-19	
(DFPBDE)	NA	118			% Recovery	100	0	118	63 - 146%	PASS	0	30 PASS	
(FTBDE)	NA	103			% Recovery	100	0	103	53 - 138%	PASS	6	30 PASS	
PBDE017	NA	53	0.05	0.1	ng/dry g	50	0	106	60 - 140%	PASS	6	30 PASS	
PBDE028	NA	55.9	0.05	0.1	ng/dry g	50	0	112	60 - 140%	PASS	3	30 PASS	
PBDE047	NA	54.6	0.05	0.1	ng/dry g	50	0	109	60 - 140%	PASS	3	30 PASS	
PBDE049	NA	58.9	0.05	0.1	ng/dry g	50	0	118	60 - 140%	PASS	23	30 PASS	
PBDE066	NA	55.1	0.05	0.1	ng/dry g	50	0	110	60 - 140%	PASS	4	30 PASS	
PBDE085	NA	51.6	0.05	0.1	ng/dry g	50	0	103	60 - 140%	PASS	1	30 PASS	
PBDE099	NA	50	0.05	0.1	ng/dry g	50	0	100	60 - 140%	PASS	0	30 PASS	
PBDE100	NA	52.2	0.05	0.1	ng/dry g	50	0	104	60 - 140%	PASS	1	30 PASS	
PBDE138	NA	44.3	0.05	0.1	ng/dry g	50	0	89	60 - 140%	PASS	1	30 PASS	
PBDE153	NA	50.5	0.05	0.1	ng/dry g	50	0	101	60 - 140%	PASS	4	30 PASS	
PBDE154	NA	51	0.05	0.1	ng/dry g	50	0	102	60 - 140%	PASS	8	30 PASS	
PBDE183	NA	49.5	0.05	0.1	ng/dry g	50	0	99	60 - 140%	PASS	8	30 PASS	
PBDE190	NA	47.9	0.05	0.1	ng/dry g	50	0	96	60 - 140%	PASS	8	30 PASS	
PBDE209	NA	253	0.05	0.1	ng/dry g	250	0	101	60 - 140%	PASS	6	30 PASS	
Sample ID: 58906-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**		**Sampled:**					**Received:**	
	Method: EPA 8270D-NCI				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 23-Jan-19	
(DFPBDE)	NA	116			% Recovery	100		116	60 - 140%	PASS			
(FTBDE)	NA	125			% Recovery	100		125	60 - 140%	PASS			
PBDE047	NA	2.08	0.05	0.1	ng/dry g	1.72		121	60 - 140%	PASS			
PBDE099	NA	2.61	0.05	0.1	ng/dry g	2		130	60 - 140%	PASS			
PBDE100	NA	0.425	0.05	0.1	ng/dry g	0.4		106	60 - 140%	PASS			
PBDE153	NA	4.6	0.05	0.1	ng/dry g	6.44		71	60 - 140%	PASS			
PBDE154	NA	1.47	0.05	0.1	ng/dry g	1.06		139	60 - 140%	PASS			
PBDE183	NA	19.7	0.05	0.1	ng/dry g	31.8		62	60 - 140%	PASS			
PBDE209	NA	58.4	0.05	0.1	ng/dry g	93.5		62	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	75			% Recovery	100	75	50 - 112%	PASS			
(d10-Phenanthrene)	NA	75			% Recovery	100	75	59 - 121%	PASS			
(d12-Chrysene)	NA	97			% Recovery	100	97	52 - 144%	PASS			
(d12-Perylene)	NA	90			% Recovery	100	90	50 - 150%	PASS			
(d8-Naphthalene)	NA	86			% Recovery	100	86	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	ND	0.059	0.5	ng/dry g							
1-Methylnaphthalene	NA	ND	0.084	0.5	ng/dry g							
1-Methylphenanthrene	NA	ND	0.076	0.5	ng/dry g							
2,6-Dimethylnaphthalene	NA	ND	0.065	0.5	ng/dry g							
2-Methylnaphthalene	NA	ND	0.106	0.5	ng/dry g							
Acenaphthene	NA	ND	0.078	0.5	ng/dry g							
Acenaphthylene	NA	ND	0.058	0.5	ng/dry g							
Anthracene	NA	ND	0.046	0.5	ng/dry g							
Benz[a]anthracene	NA	ND	0.107	0.5	ng/dry g							
Benzo[a]pyrene	NA	ND	0.106	0.5	ng/dry g							
Benzo[b]fluoranthene	NA	ND	0.063	0.5	ng/dry g							
Benzo[e]pyrene	NA	ND	0.098	0.5	ng/dry g							
Benzo[g,h,i]perylene	NA	ND	0.093	0.5	ng/dry g							
Benzo[k]fluoranthene	NA	ND	0.111	0.5	ng/dry g							
Biphenyl	NA	ND	0.092	0.5	ng/dry g							
Chrysene	NA	ND	0.067	0.5	ng/dry g							
Dibenz[a,h]anthracene	NA	ND	0.106	0.5	ng/dry g							
Dibenzothiophene	NA	ND	0.2	0.5	ng/dry g							
Fluoranthene	NA	ND	0.035	0.5	ng/dry g							
Fluorene	NA	ND	0.068	0.5	ng/dry g							
Indeno[1,2,3-cd]pyrene	NA	ND	0.087	0.5	ng/dry g							
Naphthalene	NA	ND	0.187	0.5	ng/dry g							
Perylene	NA	ND	0.114	0.5	ng/dry g							
Phenanthrene	NA	ND	0.074	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	ND	0.048	0.5	ng/dry g							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19				Analyzed: 19-Mar-19	
(d10-Acenaphthene)	NA	76			% Recovery	100	76	50 - 112%	PASS			
(d10-Phenanthrene)	NA	77			% Recovery	100	77	59 - 121%	PASS			
(d12-Chrysene)	NA	81			% Recovery	100	81	52 - 144%	PASS			
(d12-Perylene)	NA	75			% Recovery	100	75	50 - 150%	PASS			
(d8-Naphthalene)	NA	87			% Recovery	100	87	31 - 106%	PASS			
1,6,7-Trimethylnapthalene	NA	40	0.059	0.5	ng/dry g	50	80	60 - 140%	PASS			
1-Methylnaphthalene	NA	36.9	0.084	0.5	ng/dry g	50	74	60 - 140%	PASS			
1-Methylphenanthrene	NA	43.1	0.076	0.5	ng/dry g	50	86	60 - 140%	PASS			
2,6-Dimethylnaphthalene	NA	38.7	0.065	0.5	ng/dry g	50	77	60 - 140%	PASS			
2-Methylnaphthalene	NA	38	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS			
Acenaphthene	NA	38.7	0.078	0.5	ng/dry g	50	77	60 - 140%	PASS			
Acenaphthylene	NA	38.5	0.058	0.5	ng/dry g	50	77	60 - 140%	PASS			
Anthracene	NA	33.4	0.046	0.5	ng/dry g	50	67	60 - 140%	PASS			
Benz[a]anthracene	NA	38.3	0.107	0.5	ng/dry g	50	77	60 - 140%	PASS			
Benzo[a]pyrene	NA	37.8	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS			
Benzo[b]fluoranthene	NA	38.8	0.063	0.5	ng/dry g	50	78	60 - 140%	PASS			
Benzo[e]pyrene	NA	39.3	0.098	0.5	ng/dry g	50	79	60 - 140%	PASS			
Benzo[g,h,i]perylene	NA	39.4	0.093	0.5	ng/dry g	50	79	60 - 140%	PASS			
Benzo[k]fluoranthene	NA	39.8	0.111	0.5	ng/dry g	50	80	60 - 140%	PASS			
Biphenyl	NA	38	0.092	0.5	ng/dry g	50	76	60 - 140%	PASS			
Chrysene	NA	40.9	0.067	0.5	ng/dry g	50	82	60 - 140%	PASS			
Dibenz[a,h]anthracene	NA	38.9	0.106	0.5	ng/dry g	50	78	60 - 140%	PASS			
Dibenzothiophene	NA	39.9	0.2	0.5	ng/dry g	50	80	60 - 140%	PASS			
Fluoranthene	NA	43.5	0.035	0.5	ng/dry g	50	87	60 - 140%	PASS			
Fluorene	NA	40.6	0.068	0.5	ng/dry g	50	81	60 - 140%	PASS			
Indeno[1,2,3-cd]pyrene	NA	37.9	0.087	0.5	ng/dry g	50	76	60 - 140%	PASS			
Naphthalene	NA	36.1	0.187	0.5	ng/dry g	50	72	60 - 140%	PASS			
Perylene	NA	38.6	0.114	0.5	ng/dry g	50	77	60 - 140%	PASS			
Phenanthrene	NA	42.9	0.074	0.5	ng/dry g	50	86	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	NA	43.8	0.048	0.5	ng/dry g	50		88	60 - 140%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 8270D				Batch ID: O-21040		Prepared: 13-Mar-19					Analyzed: 19-Mar-19		
(d10-Acenaphthene)	NA	86			% Recovery	100	86	50 - 112%	PASS		12	30	PASS	
(d10-Phenanthrene)	NA	79			% Recovery	100	79	59 - 121%	PASS		3	30	PASS	
(d12-Chrysene)	NA	83			% Recovery	100	83	52 - 144%	PASS		2	30	PASS	
(d12-Perylene)	NA	76			% Recovery	100	76	50 - 150%	PASS		1	30	PASS	
(d8-Naphthalene)	NA	109			% Recovery	100	109	31 - 106%	FAIL		22	30	PASS	
1,6,7-Trimethylnapthalene	NA	43.1	0.059	0.5	ng/dry g	50	86	60 - 140%	PASS		7	30	PASS	
1-Methylnaphthalene	NA	44	0.084	0.5	ng/dry g	50	88	60 - 140%	PASS		17	30	PASS	
1-Methylphenanthrene	NA	43.5	0.076	0.5	ng/dry g	50	87	60 - 140%	PASS		1	30	PASS	
2,6-Dimethylnaphthalene	NA	44.5	0.065	0.5	ng/dry g	50	89	60 - 140%	PASS		14	30	PASS	
2-Methylnaphthalene	NA	44.7	0.106	0.5	ng/dry g	50	89	60 - 140%	PASS		16	30	PASS	
Acenaphthene	NA	43.1	0.078	0.5	ng/dry g	50	86	60 - 140%	PASS		11	30	PASS	
Acenaphthylene	NA	42.8	0.058	0.5	ng/dry g	50	86	60 - 140%	PASS		11	30	PASS	
Anthracene	NA	36.4	0.046	0.5	ng/dry g	50	73	60 - 140%	PASS		9	30	PASS	
Benz[a]anthracene	NA	38.7	0.107	0.5	ng/dry g	50	77	60 - 140%	PASS		0	30	PASS	
Benzo[a]pyrene	NA	37.3	0.106	0.5	ng/dry g	50	75	60 - 140%	PASS		1	30	PASS	
Benzo[b]fluoranthene	NA	38.1	0.063	0.5	ng/dry g	50	76	60 - 140%	PASS		3	30	PASS	
Benzo[e]pyrene	NA	37.8	0.098	0.5	ng/dry g	50	76	60 - 140%	PASS		4	30	PASS	
Benzo[g,h,i]perylene	NA	38.7	0.093	0.5	ng/dry g	50	77	60 - 140%	PASS		3	30	PASS	
Benzo[k]fluoranthene	NA	36.3	0.111	0.5	ng/dry g	50	73	60 - 140%	PASS		8	30	PASS	
Biphenyl	NA	43.3	0.092	0.5	ng/dry g	50	87	60 - 140%	PASS		13	30	PASS	
Chrysene	NA	40.4	0.067	0.5	ng/dry g	50	81	60 - 140%	PASS		1	30	PASS	
Dibenz[a,h]anthracene	NA	37.8	0.106	0.5	ng/dry g	50	76	60 - 140%	PASS		3	30	PASS	
Dibenzothiophene	NA	40.4	0.2	0.5	ng/dry g	50	81	60 - 140%	PASS		1	30	PASS	
Fluoranthene	NA	39	0.035	0.5	ng/dry g	50	78	60 - 140%	PASS		11	30	PASS	
Fluorene	NA	42.8	0.068	0.5	ng/dry g	50	86	60 - 140%	PASS		6	30	PASS	
Indeno[1,2,3-cd]pyrene	NA	37	0.087	0.5	ng/dry g	50	74	60 - 140%	PASS		3	30	PASS	
Naphthalene	NA	44.8	0.187	0.5	ng/dry g	50	90	60 - 140%	PASS		22	30	PASS	
Perylene	NA	38	0.114	0.5	ng/dry g	50	76	60 - 140%	PASS		1	30	PASS	
Phenanthrene	NA	42.4	0.074	0.5	ng/dry g	50	85	60 - 140%	PASS		1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	NA	38.5	0.048	0.5	ng/dry g	50		77	60 - 140%	PASS	13	30	PASS	
Sample ID: 58906-CRM1	**QAQC CRM - SRM 1944**				**Matrix: Sediment**			**Sampled:**			**Received:**			
	Method: EPA 8270D				Batch ID: O-21040			Prepared: 13-Mar-19			Analyzed: 19-Mar-19			
(d10-Acenaphthene)	NA	119			% Recovery	100		119	44 - 144%	PASS				
(d10-Phenanthrene)	NA	85			% Recovery	100		85	60 - 134%	PASS				
(d12-Chrysene)	NA	115			% Recovery	100		115	27 - 158%	PASS				
(d12-Perylene)	NA	93			% Recovery	100		93	17 - 160%	PASS				
(d8-Naphthalene)	NA	58			% Recovery	100		58	19 - 130%	PASS				
2-Methylnaphthalene	NA	0.806	0.106	0.5	ug/dry g	0.74		109	60 - 140%	PASS				
Benz[a]anthracene	NA	4.29	0.107	0.5	ug/dry g	4.72		91	60 - 140%	PASS				
Benzo[a]pyrene	NA	2.99	0.106	0.5	ug/dry g	4.3		70	60 - 140%	PASS				
Benzo[b]fluoranthene	NA	3.37	0.063	0.5	ug/dry g	3.87		87	60 - 140%	PASS				
Benzo[e]pyrene	NA	3.1	0.098	0.5	ug/dry g	3.28		95	60 - 140%	PASS				
Benzo[g,h,i]perylene	NA	2.55	0.093	0.5	ug/dry g	2.84		90	60 - 140%	PASS				
Benzo[k]fluoranthene	NA	1.81	0.111	0.5	ug/dry g	4.39		41	60 - 140%	FAIL				1
Chrysene	NA	5.95	0.067	0.5	ug/dry g	4.86		122	60 - 140%	PASS				
Dibenz[a,h]anthracene	NA	0.751	0.106	0.5	ug/dry g	0.924		81	60 - 140%	PASS				
Fluoranthene	NA	6.09	0.035	0.5	ug/dry g	8.92		68	60 - 140%	PASS				
Indeno[1,2,3-cd]pyrene	NA	2.49	0.087	0.5	ug/dry g	2.78		90	60 - 140%	PASS				
Perylene	NA	0.74	0.114	0.5	ug/dry g	1.17		63	60 - 140%	PASS				
Phenanthrene	NA	4.54	0.074	0.5	ug/dry g	5.27		86	60 - 140%	PASS				
Pyrene	NA	6.07	0.048	0.5	ug/dry g	9.7		63	60 - 140%	PASS				

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	ND	0.28	0.5	ng/dry g							
Bifenthrin	NA	ND	0.22	0.5	ng/dry g							
Cyfluthrin	NA	ND	0.25	0.5	ng/dry g							
Cyhalothrin, Total Lambda	NA	ND	0.23	0.5	ng/dry g							
Cypermethrin	NA	ND	0.25	0.5	ng/dry g							
Danitol (Fenpropathrin)	NA	ND	0.21	0.5	ng/dry g							
Deltamethrin/Tralomethrin	NA	ND	0.25	0.5	ng/dry g							
Esfenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fenvalerate	NA	ND	0.25	0.5	ng/dry g							
Fluvalinate	NA	ND	0.23	0.5	ng/dry g							
Permethrin, cis-	NA	ND	0.17	0.5	ng/dry g							
Permethrin, trans-	NA	ND	0.22	0.5	ng/dry g							
Prallethrin	NA	ND	0.28	0.5	ng/dry g							
Sample ID: 58904-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19				Analyzed: 31-Jan-19	
Allethrin	NA	634	0.28	0.5	ng/dry g	500	0	127	70 - 130%	PASS		
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	70 - 130%	PASS		
Cyfluthrin	NA	484	0.25	0.5	ng/dry g	500	0	97	70 - 130%	PASS		
Cyhalothrin, Total Lambda	NA	571	0.23	0.5	ng/dry g	500	0	114	70 - 130%	PASS		
Cypermethrin	NA	477	0.25	0.5	ng/dry g	500	0	95	70 - 130%	PASS		
Danitol (Fenpropathrin)	NA	600	0.21	0.5	ng/dry g	500	0	120	70 - 130%	PASS		
Deltamethrin/Tralomethrin	NA	413	0.25	0.5	ng/dry g	500	0	83	70 - 130%	PASS		
Esfenvalerate	NA	425	0.25	0.5	ng/dry g	500	0	85	70 - 130%	PASS		
Fenvalerate	NA	453	0.25	0.5	ng/dry g	500	0	91	70 - 130%	PASS		
Fluvalinate	NA	388	0.23	0.5	ng/dry g	500	0	78	70 - 130%	PASS		
Permethrin, cis-	NA	154	0.17	0.5	ng/dry g	134	0	115	70 - 130%	PASS		
Permethrin, trans-	NA	394	0.22	0.5	ng/dry g	358	0	110	70 - 130%	PASS		
Prallethrin	NA	531	0.28	0.5	ng/dry g	500	0	106	70 - 130%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 58904-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 8270D-MRM				Batch ID: O-21014		Prepared: 10-Jan-19					Analyzed: 31-Jan-19	
Allethrin	NA	594	0.28	0.5	ng/dry g	500	0	119	70 - 130%	PASS	7	25	PASS
Bifenthrin	NA	541	0.22	0.5	ng/dry g	500	0	108	70 - 130%	PASS	0	25	PASS
Cyfluthrin	NA	609	0.25	0.5	ng/dry g	500	0	122	70 - 130%	PASS	23	25	PASS
Cyhalothrin, Total Lambda	NA	632	0.23	0.5	ng/dry g	500	0	126	70 - 130%	PASS	10	25	PASS
Cypermethrin	NA	593	0.25	0.5	ng/dry g	500	0	119	70 - 130%	PASS	22	25	PASS
Danitol (Fenpropathrin)	NA	598	0.21	0.5	ng/dry g	500	0	120	70 - 130%	PASS	0	25	PASS
Deltamethrin/Tralomethrin	NA	479	0.25	0.5	ng/dry g	500	0	96	70 - 130%	PASS	15	25	PASS
Esfenvalerate	NA	490	0.25	0.5	ng/dry g	500	0	98	70 - 130%	PASS	14	25	PASS
Fenvalerate	NA	539	0.25	0.5	ng/dry g	500	0	108	70 - 130%	PASS	17	25	PASS
Fluvalinate	NA	460	0.23	0.5	ng/dry g	500	0	92	70 - 130%	PASS	16	25	PASS
Permethrin, cis-	NA	171	0.17	0.5	ng/dry g	134	0	128	70 - 130%	PASS	11	25	PASS
Permethrin, trans-	NA	452	0.22	0.5	ng/dry g	358	0	126	70 - 130%	PASS	14	25	PASS
Prallethrin	NA	548	0.28	0.5	ng/dry g	500	0	110	70 - 130%	PASS	4	25	PASS

CHAIN OF CUSTODY

1807003-018

CHAIN OF CUSTODY RECORD

STANDARD

Page 2 Of 3

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky, Corey Sheredy	SAMPLER: Tyler Huff, Chris Stransky

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	SEE ATTACHED LIST OF ANALYTES
	9/12/2018	1240	sediment	B18-10200	3	X

ANALYSES REQUESTED

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

RELINQUISHED BY	DATE / TIME	RECEIVED BY
C Sheredy	9/13/2018 1930	RBS
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

COOLER COUNT: 1 COOLER (has 1 water bottle bag and 1 sediment bag of 2 jars and 1 ziplock)

Table 6-2.
RHMP Constituents to be Monitored in Sediment and Corresponding Analytical Methods

Analyte	Analysis Method
Total Solids	160.3/SM 2540B[a]
Total Organic Carbon (TOC)	9060
Grain Size	SM2560
Aluminum (Al)	6020/6010B[b]
Antimony (Sb)	6020/6010B[b]
Arsenic (As)	6020/6010B[b]
Barium (Ba)	6020/6010B[b]
Beryllium (Be)	6020/6010B[b]
Cadmium (Cd)	6020/6010B[b]
Chromium (Cr)	6020/6010B[b]
Copper (Cu)	6020/6010B[b]
Iron (Fe)	6020/6010B[b]
Lead (Pb)	6020/6010B[b]
Mercury (Hg)	7471A[b]
Nickel (Ni)	6020/6010B[b]
Selenium (Se)	6020/6010B[b]
Silver (Ag)	6020/6010B[b]
Zinc (Zn)	6020/6010B[b]
Total Nitrogen	9056A
Total Phosphorus	EPA 6020
Ammonia	SM 4500-NH_3
Acid Volatile Sulfides (AVS)	Plumb, 1981 and TERL
Simultaneous Extracted Metals (SEM)	EPA 200.8
Polycyclic Aromatic Hydrocarbons (PAHs)[c]	8270C/8270D
Chlorinated Pesticides[d]	8270C[b]
Pyrethroid Pesticides[e]	EPA 8270C NCI
Polychlorinated Biphenyl (PCB) Congeners[f]	8270C PCB[b]
Polybrominated Diphenyl Ethers (PBDEs)[g]	8270C NCI

Notes:

[a] Standard Methods for the Examination of Water and Wastewater, 22nd Ed. Rice et al. 2013.

[b] USEPA 1986-1996. SW-846. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition.

[c] Includes Acenaphthene, Acenaphthylene, Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[e]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Biphenyl, Chrysene, Dibenz[a,h]anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(1,2,3-c,d)pyrene, Naphthalene, Perylene, Phenanthrene, Pyrene, 2,6-Dimethylnaphthalene, 1-Methylnapthalene, 2-Methylnapthalene, 1-Methylphenanthrene, and 2,3,5-Trimethylnaphthalene.

[d] Includes cis-chlordane, trans-chlordane, o.p'-DDT, p,p'-DDT, o.p'-DDD, p,p'-DDD, o.p'-DDE, p.p'-DDE, p,p'-DDMU, aldrin, BHC-alpha, BHC-beta, BHC-gamma, cis-nonachlor, trans-nonachlor, oxychlordane, DCPA (Dacthal), dicofol, dieldrin, toxaphene, endosulfan sulfate, endosulfan-I, endosulfan-II, endrin, endrin aldehyde, endrin ketone, heptachlor, heptachlor epoxide, methoxychlor, mirex, and perthane.

[e] Incudes Bifenthrin, Cyfluthrin (total), Cypermethrin (total), lambda-Cyhalothrin (total), cis-Permethrin, Trans-Permethrin, Deltamethrin, Esfenvalerate

[f] Includes congeners: PCB-3, 5, 8, 15, 18, 27-29, 31, 33, 37, 44, 49, 52, 56, 60, 66, 70, 74, 77, 81, 87, 95, 97, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 137, 138, 141, 149, 151, 153, 156-158, 167-170, 174, 177, 180, 183, 187, 189, 194.195, 200, 201, 203, 206, and 209.

[g] Includes BDE-17, 28, 47, 49, 66, 85, 99, 100, 138, 153, 154, 183, and 209.

GC - Gas chromatography
MS SIM - Mass spectrometry selected ion monitoring
SM - Standard Methods

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-018

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 9/13/2018 Received By: RS Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 2	☐ BLUE ☑ WET ☐ DRY
Start 12:00 End 18:00 ☐ Other:	☐ Other :	☐ None 6 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....Yes
8. Name of sampler included on COC(s).....Yes

Notes:

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

March 11, 2019

Chris Stransky
Wood Environment & Infrastructure Solutions, Inc.
9210 Sky Park Court
Suite 200
San Diego, CA 92123-

Project Name: 2018 Regional Harbor Monitoring Program
Physis Project ID: 1807003-019

Dear Chris,

Enclosed are the analytical results for the sample submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/11/2018. A total of 1 sample was received for analysis in accordance with the attached chain of custody (COC). Per the COC, the sample was analyzed for:

Conventionals
Total Suspended Solids by SM 2540 D
Total Phosphorus by SM 4500-P E
Nitrite as N by EPA 300.0
Nitrate as N by EPA 300.0
Ammonia as N by SM 4500-NH3 D
Elements
Total Trace Metals by EPA 200.8
Total Mercury by EPA 245.7
Organics
Toxaphene w/ OCPs by EPA 625-NCI
Total Organic Carbon by SM 5310 B
Synthetic Pyrethroid Pesticides by EPA 625-NCI
Polynuclear Aromatic Hydrocarbons by EPA 625
PBDE Congeners by EPA 625-NCI
Organochlorine Pesticides & PCB Congeners/Aroclors by EPA 625
Fipronil & Degradates by EPA 625-NCI
Subcontract
Total Kjeldahl Nitrogen by EPA 351.2

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity

to provide you with our analytical and support services.

Regards,

Rich Gossett
714 602-5320
Extension 201
richgossett@physislabs.com

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PROJECT SAMPLE LIST

Wood Environment & Infrastructure Solutions, Inc. PHYSIS Project ID: 1807003-019

2018 Regional Harbor Monitoring Program Total Samples: 1

PHYSIS ID	Sample ID	Description	Date	Time	Matrix
56384	B18-SED-EB		7/10/2018	7:15	Lab Water

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

1904 E. Wright Circle Anaheim, CA 92806 (714) 602-5320 fax (714) 602-5321 www.physislabs.com CA ELAP #2769

ANALYTICAL REPORT

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**		**Matrix: Lab Water**			**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
(PCB030)	EPA 625	% Recovery	96			Total		O-20130	12-Jul-18	04-Aug-18
(PCB112)	EPA 625	% Recovery	93			Total		O-20130	12-Jul-18	04-Aug-18
(PCB198)	EPA 625	% Recovery	96			Total		O-20130	12-Jul-18	04-Aug-18
(TCMX)	EPA 625	% Recovery	90			Total		O-20130	12-Jul-18	04-Aug-18
2,4'-DDD	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
2,4'-DDE	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
2,4'-DDT	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
4,4'-DDD	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
4,4'-DDE	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
4,4'-DDMU	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
4,4'-DDT	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Aldrin	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
BHC-alpha	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
BHC-beta	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
BHC-delta	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
BHC-gamma	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Chlordane-alpha	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Chlordane-gamma	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
cis-Nonachlor	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
DCPA (Dacthal)	EPA 625	ng/L	ND	5	10	Total		O-20130	12-Jul-18	04-Aug-18
Dicofol	EPA 625	ng/L	ND	50	100	Total		O-20130	12-Jul-18	04-Aug-18
Dieldrin	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Endosulfan Sulfate	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Endosulfan-I	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

Chlorinated Pesticides

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Endosulfan-II	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Endrin	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Endrin Aldehyde	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Endrin Ketone	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Heptachlor	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Heptachlor Epoxide	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Hexachlorobenzene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Methoxychlor	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Mirex	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Oxychlordane	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Perthane	EPA 625	ng/L	ND	5	10	Total		O-20130	12-Jul-18	04-Aug-18
Toxaphene	EPA 625-NCI	ng/L	ND	10	50	Total		O-20130	12-Jul-18	13-Aug-18
trans-Nonachlor	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

Conventionals

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**		**Matrix: Lab Water**			**Sampled: 10-Jul-18 7:15**		**Received: 11-Jul-18**		
Ammonia as N	SM 4500-NH3 D	mg/L	ND	0.007	0.03	NA		C-39010	19-Jul-18	19-Jul-18 12:00
Nitrate as N	EPA 300.0	mg/L	ND	0.01	0.05	NA		C-37139	11-Jul-18	11-Jul-18 15:45
Nitrite as N	EPA 300.0	mg/L	ND	0.01	0.03	NA		C-37139	11-Jul-18	11-Jul-18 15:45
Total Organic Carbon	SM 5310 B	mg/L	ND	0.14	0.2	NA		O-16076	05-Aug-18	05-Aug-18 17:10
Total Phosphorus	SM 4500-P E	mg/L	ND	0.016	0.02	NA		C-41021	06-Aug-18	06-Aug-18 14:00
Total Suspended Solids	SM 2540 D	mg/L	0.95	0.5	0.5	NA		C-40003	16-Jul-18	16-Jul-18 12:00

Elements

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**		**Matrix: Lab Water**			**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
Aluminum (Al)	EPA 200.8	µg/L	ND	1.65	8.25	Total		E-16140	06-Dec-18	06-Dec-18
Antimony (Sb)	EPA 200.8	µg/L	ND	0.03	0.15	Total		E-16140	06-Dec-18	06-Dec-18
Arsenic (As)	EPA 200.8	µg/L	ND	0.05	0.159	Total		E-16140	06-Dec-18	06-Dec-18
Barium (Ba)	EPA 200.8	µg/L	ND	0.25	0.5	Total		E-16140	06-Dec-18	06-Dec-18
Beryllium (Be)	EPA 200.8	µg/L	ND	0.01	0.031	Total		E-16140	06-Dec-18	06-Dec-18
Cadmium (Cd)	EPA 200.8	µg/L	ND	0.007	0.023	Total		E-16140	06-Dec-18	06-Dec-18
Chromium (Cr)	EPA 200.8	µg/L	ND	0.01	0.05	Total		E-16140	06-Dec-18	06-Dec-18
Copper (Cu)	EPA 200.8	µg/L	0.386	0.007	0.022	Total		E-16140	06-Dec-18	06-Dec-18
Iron (Fe)	EPA 200.8	µg/L	3.61	1.13	5.65	Total	J	E-16140	06-Dec-18	06-Dec-18
Lead (Pb)	EPA 200.8	µg/L	ND	0.007	0.021	Total		E-16140	06-Dec-18	06-Dec-18
Mercury (Hg)	EPA 245.7	µg/L	ND	0.01	0.02	Total		E-15082	04-Oct-18	04-Oct-18 17:39
Nickel (Ni)	EPA 200.8	µg/L	12.5	0.013	0.042	Total		E-16140	06-Dec-18	06-Dec-18
Selenium (Se)	EPA 200.8	µg/L	ND	0.021	0.068	Total		E-16140	06-Dec-18	06-Dec-18
Silver (Ag)	EPA 200.8	µg/L	ND	0.01	0.02	Total		E-16140	06-Dec-18	06-Dec-18
Zinc (Zn)	EPA 200.8	µg/L	2.47	0.022	0.069	Total		E-16140	06-Dec-18	06-Dec-18

Fipronil & Degradates

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**		**Matrix: Lab Water**			**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
Fipronil	EPA 625-NCI	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Fipronil Desulfinyl	EPA 625-NCI	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Fipronil Sulfide	EPA 625-NCI	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Fipronil Sulfone	EPA 625-NCI	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**			**Matrix: Lab Water**		**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
PCB003	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB005	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB008	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB015	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB018	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB027	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB028	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB029	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB031	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB033	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB037	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB044	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB049	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB052	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB056(060)	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB066	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB070	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB074	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB077	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB081	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB087	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB095	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB097	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB099	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB101	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB105	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB110	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB114	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB118	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB119	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB123	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB126	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB128	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB137	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB138	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB141	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB149	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB151	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB153	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB156	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB157	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB158	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB167	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB168+132	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB169	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB170	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB174	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB177	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB180	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

PCB Congeners

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
PCB183	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB187	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB189	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB194	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB195	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB199(200)	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB201	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB203	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB206	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
PCB209	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

PolyBrominated Diphenyl Ethers

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**			**Matrix: Lab Water**		**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
(DFPBDE)	EPA 625-NCI	% Recovery	86			Total		O-20130	12-Jul-18	27-Jul-18
(FTBDE)	EPA 625-NCI	% Recovery	92			Total		O-20130	12-Jul-18	27-Jul-18
PBDE017	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE028	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE047	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE049	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE066	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE071	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE085	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE099	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE100	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE138	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE153	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE154	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE183	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE190	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18
PBDE209	EPA 625-NCI	ng/L	ND	1	5	Total		O-20130	12-Jul-18	27-Jul-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**			**Matrix: Lab Water**		**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
(d10-Acenaphthene)	EPA 625	% Recovery	89			Total		O-20130	12-Jul-18	04-Aug-18
(d10-Phenanthrene)	EPA 625	% Recovery	98			Total		O-20130	12-Jul-18	04-Aug-18
(d12-Chrysene)	EPA 625	% Recovery	98			Total		O-20130	12-Jul-18	04-Aug-18
(d12-Perylene)	EPA 625	% Recovery	97			Total		O-20130	12-Jul-18	04-Aug-18
(d8-Naphthalene)	EPA 625	% Recovery	75			Total		O-20130	12-Jul-18	04-Aug-18
1,6,7-Trimethylnapthalene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
1-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
1-Methylphenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
2,6-Dimethylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
2-Methylnaphthalene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Acenaphthene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Acenaphthylene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Anthracene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benz[a]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benzo[a]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benzo[b]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benzo[e]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benzo[g,h,i]perylene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Benzo[k]fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Biphenyl	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Chrysene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Dibenz[a,h]anthracene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Dibenzothiophene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Fluoranthene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

Polynuclear Aromatic Hydrocarbons

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Fluorene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Indeno[1,2,3-cd]pyrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Naphthalene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Perylene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Phenanthrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18
Pyrene	EPA 625	ng/L	ND	1	5	Total		O-20130	12-Jul-18	04-Aug-18

Pyrethroids

ANALYTE	Method	Units	RESULT	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 56384-R1	**B18-SED-EB**		**Matrix: Lab Water**			**Sampled: 10-Jul-18**	**7:15**	**Received: 11-Jul-18**		
Allethrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Bifenthrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Cyfluthrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Cyhalothrin, Total Lambda	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Cypermethrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Danitol (Fenpropathrin)	EPA 625-MRM	ng/L	ND	0.3	2	Total		O-20130	12-Jul-18	13-Aug-18
Deltamethrin/Tralomethrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Esfenvalerate	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Fenvalerate	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Fluvalinate	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Permethrin, cis-	EPA 625-MRM	ng/L	ND	2	4	Total		O-20130	12-Jul-18	13-Aug-18
Permethrin, trans-	EPA 625-MRM	ng/L	ND	1	2	Total		O-20130	12-Jul-18	13-Aug-18
Prallethrin	EPA 625-MRM	ng/L	ND	0.5	2	Total		O-20130	12-Jul-18	13-Aug-18
Resmethrin	EPA 625-MRM	ng/L	ND	5	10	Total		O-20130	12-Jul-18	13-Aug-18

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals

QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Ammonia as N			**Method: SM 4500-NH3 D**			**Fraction: NA**			**Prepared: 19-Jul-18**			**Analyzed: 19-Jul-18**			
56379-B1	QAQC Procedural Blank	C-39010	ND	0.007	0.03	mg/L									
56379-BS1	QAQC Procedural Blank	C-39010	0.0273	0.007	0.03	mg/L	0.025	0	109	90 - 110%	PASS				
56379-BS2	QAQC Procedural Blank	C-39010	0.0262	0.007	0.03	mg/L	0.025	0	105	90 - 110%	PASS	4	25	PASS	
Nitrate as N			**Method: EPA 300.0**			**Fraction: NA**			**Prepared: 11-Jul-18**			**Analyzed: 11-Jul-18**			
56379-B1	QAQC Procedural Blank	C-37139	ND	0.01	0.05	mg/L									
56379-BS1	QAQC Procedural Blank	C-37139	0.482	0.01	0.05	mg/L	0.5	0	96	62 - 136%	PASS				
56379-BS2	QAQC Procedural Blank	C-37139	0.401	0.01	0.05	mg/L	0.5	0	80	62 - 136%	PASS	18	30	PASS	
56384-MS1	B18-SED-EB	C-37139	0.477	0.01	0.05	mg/L	0.5	0	95	76 - 121%	PASS				
56384-MS2	B18-SED-EB	C-37139	0.372	0.01	0.05	mg/L	0.5	0	74	76 - 121%	FAIL	25	30	PASS	R
56384-R2	B18-SED-EB	C-37139	ND	0.01	0.05	mg/L						0	30	PASS	
Nitrite as N			**Method: EPA 300.0**			**Fraction: NA**			**Prepared: 11-Jul-18**			**Analyzed: 11-Jul-18**			
56379-B1	QAQC Procedural Blank	C-37139	ND	0.01	0.03	mg/L									
56379-BS1	QAQC Procedural Blank	C-37139	0.475	0.01	0.03	mg/L	0.5	0	95	24 - 155%	PASS				
56379-BS2	QAQC Procedural Blank	C-37139	0.444	0.01	0.03	mg/L	0.5	0	89	24 - 155%	PASS	7	30	PASS	
56384-MS1	B18-SED-EB	C-37139	0.584	0.01	0.03	mg/L	0.5	0	117	63 - 126%	PASS				
56384-MS2	B18-SED-EB	C-37139	0.503	0.01	0.03	mg/L	0.5	0	101	63 - 126%	PASS	15	30	PASS	
56384-R2	B18-SED-EB	C-37139	ND	0.01	0.03	mg/L						0	30	PASS	
Total Organic Carbon			**Method: SM 5310 B**			**Fraction: NA**			**Prepared: 05-Aug-18**			**Analyzed: 05-Aug-18**			
56379-B1	QAQC Procedural Blank	O-16076	ND	0.14	0.2	mg/L									
56379-BS1	QAQC Procedural Blank	O-16076	7.74	0.14	0.2	mg/L	10	0	77	80 - 120%	PASS				Q
56379-BS2	QAQC Procedural Blank	O-16076	8.2	0.14	0.2	mg/L	10	0	82	80 - 120%	PASS	6	25	PASS	
56384-MS1	B18-SED-EB	O-16076	7.82	0.14	0.2	mg/L	10	0	78	80 - 120%	PASS				Q
56384-MS2	B18-SED-EB	O-16076	8.03	0.14	0.2	mg/L	10	0	80	80 - 120%	PASS	3	25	PASS	
56384-R2	B18-SED-EB	O-16076	ND	0.14	0.2	mg/L						0	25	PASS	
Total Phosphorus			**Method: SM 4500-P E**			**Fraction: NA**			**Prepared: 06-Aug-18**			**Analyzed: 06-Aug-18**			
56379-B1	QAQC Procedural Blank	C-41021	ND	0.016	0.02	mg/L									
56379-BS1	QAQC Procedural Blank	C-41021	0.32	0.016	0.02	mg/L	0.3	0	107	73 - 131%	PASS				
56379-BS2	QAQC Procedural Blank	C-41021	0.319	0.016	0.02	mg/L	0.3	0	106	73 - 131%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Conventionals — QUALITY CONTROL REPORT

SAMPLE ID		BATCH ID	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
56384-MS1	B18-SED-EB	C-41021	0.309	0.016	0.02	mg/L	0.3	0	103	67 - 119%	PASS				
56384-MS2	B18-SED-EB	C-41021	0.305	0.016	0.02	mg/L	0.3	0	102	67 - 119%	PASS	1	30	PASS	
56384-R2	B18-SED-EB	C-41021	ND	0.016	0.02	mg/L						0	30	PASS	

Total Suspended Solids **Method: SM 2540 D** **Fraction: NA** **Prepared: 16-Jul-18** **Analyzed: 16-Jul-18**

56379-B1	QAQC Procedural Blank	C-40003	ND	0.5	0.5	mg/L									

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 03-Aug-18	
(PCB030)	Total	91			% Recovery	100	91	57 - 133%	PASS			
(PCB112)	Total	96			% Recovery	100	96	65 - 133%	PASS			
(PCB198)	Total	95			% Recovery	100	95	69 - 133%	PASS			
(TCMX)	Total	84			% Recovery	100	84	39 - 135%	PASS			
2,4'-DDD	Total	ND	1	5	ng/L							
2,4'-DDE	Total	ND	1	5	ng/L							
2,4'-DDT	Total	ND	1	5	ng/L							
4,4'-DDD	Total	ND	1	5	ng/L							
4,4'-DDE	Total	ND	1	5	ng/L							
4,4'-DDMU	Total	ND	1	5	ng/L							
4,4'-DDT	Total	ND	1	5	ng/L							
Aldrin	Total	ND	1	5	ng/L							
BHC-alpha	Total	ND	1	5	ng/L							
BHC-beta	Total	ND	1	5	ng/L							
BHC-delta	Total	ND	1	5	ng/L							
BHC-gamma	Total	ND	1	5	ng/L							
Chlordane-alpha	Total	ND	1	5	ng/L							
Chlordane-gamma	Total	ND	1	5	ng/L							
cis-Nonachlor	Total	ND	1	5	ng/L							
DCPA (Dacthal)	Total	ND	5	10	ng/L							
Dicofol	Total	ND	50	100	ng/L							
Dieldrin	Total	ND	1	5	ng/L							
Endosulfan Sulfate	Total	ND	1	5	ng/L							
Endosulfan-I	Total	ND	1	5	ng/L							
Endosulfan-II	Total	ND	1	5	ng/L							
Endrin	Total	ND	1	5	ng/L							
Endrin Aldehyde	Total	ND	1	5	ng/L							
Endrin Ketone	Total	ND	1	5	ng/L							
Heptachlor	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	Total	ND	1	5	ng/L							
Hexachlorobenzene	Total	ND	1	5	ng/L							
Methoxychlor	Total	ND	1	5	ng/L							
Mirex	Total	ND	1	5	ng/L							
Oxychlordane	Total	ND	1	5	ng/L							
Perthane	Total	ND	5	10	ng/L							
trans-Nonachlor	Total	ND	1	5	ng/L							
		Method: EPA 625-NCI			Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 13-Aug-18		
Toxaphene	Total	ND	10	50	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 03-Aug-18		
(PCB030)	Total	100			% Recovery	100	0	100	57 - 133%	PASS		
(PCB112)	Total	102			% Recovery	100	0	102	65 - 133%	PASS		
(PCB198)	Total	94			% Recovery	100	0	94	69 - 133%	PASS		
(TCMX)	Total	92			% Recovery	100	0	92	39 - 135%	PASS		
2,4'-DDD	Total	506	1	5	ng/L	500	0	101	64 - 122%	PASS		
2,4'-DDE	Total	541	1	5	ng/L	500	0	108	59 - 131%	PASS		
2,4'-DDT	Total	516	1	5	ng/L	500	0	103	52 - 136%	PASS		
4,4'-DDD	Total	576	1	5	ng/L	500	0	115	53 - 133%	PASS		
4,4'-DDE	Total	502	1	5	ng/L	500	0	100	57 - 134%	PASS		
4,4'-DDMU	Total	517	1	5	ng/L	500	0	103	50 - 150%	PASS		
4,4'-DDT	Total	603	1	5	ng/L	500	0	121	62 - 141%	PASS		
Aldrin	Total	491	1	5	ng/L	500	0	98	64 - 127%	PASS		
BHC-alpha	Total	515	1	5	ng/L	500	0	103	63 - 123%	PASS		
BHC-beta	Total	509	1	5	ng/L	500	0	102	52 - 143%	PASS		
BHC-delta	Total	492	1	5	ng/L	500	0	98	46 - 137%	PASS		
BHC-gamma	Total	531	1	5	ng/L	500	0	106	62 - 128%	PASS		
Chlordane-alpha	Total	513	1	5	ng/L	500	0	103	59 - 123%	PASS		
Chlordane-gamma	Total	520	1	5	ng/L	500	0	104	62 - 125%	PASS		
cis-Nonachlor	Total	505	1	5	ng/L	500	0	101	61 - 117%	PASS		
DCPA (Dacthal)	Total	512	5	10	ng/L	500	0	102	50 - 150%	PASS		
Dicofol	Total	352	50	100	ng/L	500	0	70	50 - 150%	PASS		
Dieldrin	Total	505	1	5	ng/L	500	0	101	63 - 138%	PASS		
Endosulfan Sulfate	Total	547	1	5	ng/L	500	0	109	50 - 132%	PASS		
Endosulfan-I	Total	557	1	5	ng/L	500	0	111	49 - 145%	PASS		
Endosulfan-II	Total	504	1	5	ng/L	500	0	101	53 - 130%	PASS		
Endrin	Total	584	1	5	ng/L	500	0	117	67 - 161%	PASS		
Endrin Aldehyde	Total	475	1	5	ng/L	500	0	95	37 - 140%	PASS		
Endrin Ketone	Total	512	1	5	ng/L	500	0	102	63 - 131%	PASS		
Heptachlor	Total	485	1	5	ng/L	500	0	97	68 - 142%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Heptachlor Epoxide	Total	513	1	5	ng/L	500	0	103	69 - 125%	PASS			
Hexachlorobenzene	Total	496	1	5	ng/L	500	0	99	46 - 138%	PASS			
Methoxychlor	Total	665	1	5	ng/L	500	0	133	60 - 185%	PASS			
Mirex	Total	492	1	5	ng/L	500	0	98	55 - 129%	PASS			
Oxychlordane	Total	525	1	5	ng/L	500	0	105	55 - 132%	PASS			
Perthane	Total	591	5	10	ng/L	500	0	118	51 - 138%	PASS			
trans-Nonachlor	Total	506	1	5	ng/L	500	0	101	59 - 121%	PASS			
		Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 13-Aug-18	
Toxaphene	Total	5630	10	50	ng/L	5000	0	113	62 - 161%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18					Analyzed: 03-Aug-18		
(PCB030)	Total	104			% Recovery	100	0	104	57 - 133%	PASS	4	30	PASS	
(PCB112)	Total	99			% Recovery	100	0	99	65 - 133%	PASS	3	30	PASS	
(PCB198)	Total	93			% Recovery	100	0	93	69 - 133%	PASS	1	30	PASS	
(TCMX)	Total	97			% Recovery	100	0	97	39 - 135%	PASS	5	30	PASS	
2,4'-DDD	Total	492	1	5	ng/L	500	0	98	64 - 122%	PASS	3	30	PASS	
2,4'-DDE	Total	524	1	5	ng/L	500	0	105	59 - 131%	PASS	3	30	PASS	
2,4'-DDT	Total	506	1	5	ng/L	500	0	101	52 - 136%	PASS	2	30	PASS	
4,4'-DDD	Total	565	1	5	ng/L	500	0	113	53 - 133%	PASS	2	30	PASS	
4,4'-DDE	Total	486	1	5	ng/L	500	0	97	57 - 134%	PASS	3	30	PASS	
4,4'-DDMU	Total	496	1	5	ng/L	500	0	99	50 - 150%	PASS	4	30	PASS	
4,4'-DDT	Total	583	1	5	ng/L	500	0	117	62 - 141%	PASS	3	30	PASS	
Aldrin	Total	500	1	5	ng/L	500	0	100	64 - 127%	PASS	2	30	PASS	
BHC-alpha	Total	519	1	5	ng/L	500	0	104	63 - 123%	PASS	1	30	PASS	
BHC-beta	Total	501	1	5	ng/L	500	0	100	52 - 143%	PASS	2	30	PASS	
BHC-delta	Total	503	1	5	ng/L	500	0	101	46 - 137%	PASS	3	30	PASS	
BHC-gamma	Total	533	1	5	ng/L	500	0	107	62 - 128%	PASS	1	30	PASS	
Chlordane-alpha	Total	501	1	5	ng/L	500	0	100	59 - 123%	PASS	3	30	PASS	
Chlordane-gamma	Total	501	1	5	ng/L	500	0	100	62 - 125%	PASS	4	30	PASS	
cis-Nonachlor	Total	497	1	5	ng/L	500	0	99	61 - 117%	PASS	2	30	PASS	
DCPA (Dacthal)	Total	511	5	10	ng/L	500	0	102	50 - 150%	PASS	0	30	PASS	
Dicofol	Total	353	50	100	ng/L	500	0	71	50 - 150%	PASS	1	30	PASS	
Dieldrin	Total	485	1	5	ng/L	500	0	97	63 - 138%	PASS	4	30	PASS	
Endosulfan Sulfate	Total	546	1	5	ng/L	500	0	109	50 - 132%	PASS	0	30	PASS	
Endosulfan-I	Total	514	1	5	ng/L	500	0	103	49 - 145%	PASS	7	30	PASS	
Endosulfan-II	Total	477	1	5	ng/L	500	0	95	53 - 130%	PASS	6	30	PASS	
Endrin	Total	607	1	5	ng/L	500	0	121	67 - 161%	PASS	3	30	PASS	
Endrin Aldehyde	Total	505	1	5	ng/L	500	0	101	37 - 140%	PASS	6	30	PASS	
Endrin Ketone	Total	506	1	5	ng/L	500	0	101	63 - 131%	PASS	1	30	PASS	
Heptachlor	Total	486	1	5	ng/L	500	0	97	68 - 142%	PASS	0	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Chlorinated Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Heptachlor Epoxide	Total	493	1	5	ng/L	500	0	99	69 - 125%	PASS	4	30	PASS	
Hexachlorobenzene	Total	516	1	5	ng/L	500	0	103	46 - 138%	PASS	4	30	PASS	
Methoxychlor	Total	650	1	5	ng/L	500	0	130	60 - 185%	PASS	2	30	PASS	
Mirex	Total	488	1	5	ng/L	500	0	98	55 - 129%	PASS	0	30	PASS	
Oxychlordane	Total	520	1	5	ng/L	500	0	104	55 - 132%	PASS	1	30	PASS	
Perthane	Total	561	5	10	ng/L	500	0	112	51 - 138%	PASS	5	30	PASS	
trans-Nonachlor	Total	501	1	5	ng/L	500	0	100	59 - 121%	PASS	1	30	PASS	
	Method: EPA 625-NCI				Batch ID: O-20130			Prepared: 12-Jul-18				Analyzed: 13-Aug-18		
Toxaphene	Total	5680	10	50	ng/L	5000	0	114	62 - 161%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15082		Prepared: 04-Oct-18			Analyzed: 04-Oct-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L							
	Method: EPA 200.8				Batch ID: E-16140		Prepared: 06-Dec-18			Analyzed: 06-Dec-18		
Aluminum (Al)	Total	ND	1.65	8.25	µg/L							
Antimony (Sb)	Total	ND	0.03	0.15	µg/L							
Arsenic (As)	Total	ND	0.05	0.159	µg/L							
Barium (Ba)	Total	ND	0.25	0.5	µg/L							
Beryllium (Be)	Total	ND	0.01	0.031	µg/L							
Cadmium (Cd)	Total	ND	0.007	0.023	µg/L							
Chromium (Cr)	Total	ND	0.01	0.05	µg/L							
Copper (Cu)	Total	ND	0.007	0.022	µg/L							
Iron (Fe)	Total	ND	1.13	5.65	µg/L							
Lead (Pb)	Total	ND	0.007	0.021	µg/L							
Nickel (Ni)	Total	ND	0.013	0.042	µg/L							
Selenium (Se)	Total	ND	0.021	0.068	µg/L							
Silver (Ag)	Total	ND	0.01	0.02	µg/L							
Zinc (Zn)	Total	ND	0.022	0.069	µg/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 245.7				Batch ID: E-15082		Prepared: 04-Oct-18			Analyzed: 04-Oct-18		
Mercury (Hg)	Total	1.07	0.01	0.02	µg/L	1	0	107	80 - 120% PASS			
	Method: EPA 200.8				Batch ID: E-16140		Prepared: 06-Dec-18			Analyzed: 06-Dec-18		
Aluminum (Al)	Total	102	1.65	8.25	µg/L	100	0	102	80 - 120% PASS			
Antimony (Sb)	Total	101	0.03	0.15	µg/L	100	0	101	80 - 120% PASS			
Arsenic (As)	Total	99.9	0.05	0.159	µg/L	100	0	100	80 - 120% PASS			
Barium (Ba)	Total	100	0.25	0.5	µg/L	100	0	100	80 - 120% PASS			
Beryllium (Be)	Total	104	0.01	0.031	µg/L	100	0	104	80 - 120% PASS			
Cadmium (Cd)	Total	102	0.007	0.023	µg/L	100	0	102	80 - 120% PASS			
Chromium (Cr)	Total	99.8	0.01	0.05	µg/L	100	0	100	80 - 120% PASS			
Copper (Cu)	Total	100	0.007	0.022	µg/L	100	0	100	80 - 120% PASS			
Iron (Fe)	Total	104	1.13	5.65	µg/L	100	0	104	80 - 120% PASS			
Lead (Pb)	Total	102	0.007	0.021	µg/L	100	0	102	80 - 120% PASS			
Nickel (Ni)	Total	98.3	0.013	0.042	µg/L	100	0	98	80 - 120% PASS			
Selenium (Se)	Total	101	0.021	0.068	µg/L	100	0	101	80 - 120% PASS			
Silver (Ag)	Total	9.54	0.01	0.02	µg/L	10	0	95	80 - 120% PASS			
Zinc (Zn)	Total	100	0.022	0.069	µg/L	100	0	100	80 - 120% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 245.7				Batch ID: E-15082		Prepared: 04-Oct-18					Analyzed: 04-Oct-18	
Mercury (Hg)	Total	1.08	0.01	0.02	µg/L	1	0	108	80 - 120%	PASS	1	25 PASS	
	Method: EPA 200.8				Batch ID: E-16140		Prepared: 06-Dec-18					Analyzed: 06-Dec-18	
Aluminum (Al)	Total	95.5	1.65	8.25	µg/L	100	0	95	80 - 120%	PASS	6	25 PASS	
Antimony (Sb)	Total	99.1	0.03	0.15	µg/L	100	0	99	80 - 120%	PASS	2	25 PASS	
Arsenic (As)	Total	98.6	0.05	0.159	µg/L	100	0	99	80 - 120%	PASS	1	25 PASS	
Barium (Ba)	Total	104	0.25	0.5	µg/L	100	0	104	80 - 120%	PASS	4	25 PASS	
Beryllium (Be)	Total	104	0.01	0.031	µg/L	100	0	104	80 - 120%	PASS	0	25 PASS	
Cadmium (Cd)	Total	101	0.007	0.023	µg/L	100	0	101	80 - 120%	PASS	1	25 PASS	
Chromium (Cr)	Total	100	0.01	0.05	µg/L	100	0	100	80 - 120%	PASS	0	25 PASS	
Copper (Cu)	Total	101	0.007	0.022	µg/L	100	0	101	80 - 120%	PASS	1	25 PASS	
Iron (Fe)	Total	103	1.13	5.65	µg/L	100	0	103	80 - 120%	PASS	1	25 PASS	
Lead (Pb)	Total	102	0.007	0.021	µg/L	100	0	102	80 - 120%	PASS	0	25 PASS	
Nickel (Ni)	Total	98.2	0.013	0.042	µg/L	100	0	98	80 - 120%	PASS	0	25 PASS	
Selenium (Se)	Total	99.6	0.021	0.068	µg/L	100	0	100	80 - 120%	PASS	1	25 PASS	
Silver (Ag)	Total	9.9	0.01	0.02	µg/L	10	0	99	80 - 120%	PASS	4	25 PASS	
Zinc (Zn)	Total	98.5	0.022	0.069	µg/L	100	0	99	80 - 120%	PASS	2	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56384-MS1	**B18-SED-EB**				**Matrix: Lab Water**		**Sampled: 10-Jul-18 7:15**				**Received: 11-Jul-18**	
	Method: EPA 245.7				Batch ID: E-15082		Prepared: 04-Oct-18				Analyzed: 04-Oct-18	
Mercury (Hg)	Total	1.12	0.01	0.02	µg/L	1	0	112	75 - 125%	PASS		
	Method: EPA 200.8				Batch ID: E-16140		Prepared: 06-Dec-18				Analyzed: 06-Dec-18	
Aluminum (Al)	Total	103	1.65	8.25	µg/L	100	0	103	75 - 125%	PASS		
Antimony (Sb)	Total	99	0.03	0.15	µg/L	100	0	99	75 - 125%	PASS		
Arsenic (As)	Total	104	0.05	0.159	µg/L	100	0	104	75 - 125%	PASS		
Barium (Ba)	Total	96.1	0.25	0.5	µg/L	100	0	96	75 - 125%	PASS		
Beryllium (Be)	Total	93.8	0.01	0.031	µg/L	100	0	94	75 - 125%	PASS		
Cadmium (Cd)	Total	108	0.007	0.023	µg/L	100	0	108	75 - 125%	PASS		
Chromium (Cr)	Total	95.8	0.01	0.05	µg/L	100	0	96	75 - 125%	PASS		
Copper (Cu)	Total	94.3	0.007	0.022	µg/L	100	0.352	94	75 - 125%	PASS		
Iron (Fe)	Total	99.5	1.13	5.65	µg/L	100	3.45	96	75 - 125%	PASS		
Lead (Pb)	Total	103	0.007	0.021	µg/L	100	0	103	75 - 125%	PASS		
Nickel (Ni)	Total	105	0.013	0.042	µg/L	100	12.4	93	75 - 125%	PASS		
Selenium (Se)	Total	99.2	0.021	0.068	µg/L	100	0	99	75 - 125%	PASS		
Silver (Ag)	Total	8.64	0.01	0.02	µg/L	10	0	86	75 - 125%	PASS		
Zinc (Zn)	Total	110	0.022	0.069	µg/L	100	2.36	108	75 - 125%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56384-MS2	**B18-SED-EB**				**Matrix: Lab Water**			**Sampled: 10-Jul-18 7:15**			**Received: 11-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15082			Prepared: 04-Oct-18			Analyzed: 04-Oct-18		
Mercury (Hg)	Total	1.11	0.01	0.02	µg/L	1	0	111	75 - 125%	PASS	1	25 PASS	
	Method: EPA 200.8				Batch ID: E-16140			Prepared: 06-Dec-18			Analyzed: 06-Dec-18		
Aluminum (Al)	Total	102	1.65	8.25	µg/L	100	0	102	75 - 125%	PASS	1	25 PASS	
Antimony (Sb)	Total	97.4	0.03	0.15	µg/L	100	0	97	75 - 125%	PASS	2	25 PASS	
Arsenic (As)	Total	98.6	0.05	0.159	µg/L	100	0	99	75 - 125%	PASS	5	25 PASS	
Barium (Ba)	Total	95.7	0.25	0.5	µg/L	100	0	96	75 - 125%	PASS	0	25 PASS	
Beryllium (Be)	Total	92.7	0.01	0.031	µg/L	100	0	93	75 - 125%	PASS	1	25 PASS	
Cadmium (Cd)	Total	109	0.007	0.023	µg/L	100	0	109	75 - 125%	PASS	1	25 PASS	
Chromium (Cr)	Total	96.3	0.01	0.05	µg/L	100	0	96	75 - 125%	PASS	0	25 PASS	
Copper (Cu)	Total	95.1	0.007	0.022	µg/L	100	0.352	95	75 - 125%	PASS	1	25 PASS	
Iron (Fe)	Total	105	1.13	5.65	µg/L	100	3.45	102	75 - 125%	PASS	6	25 PASS	
Lead (Pb)	Total	103	0.007	0.021	µg/L	100	0	103	75 - 125%	PASS	0	25 PASS	
Nickel (Ni)	Total	105	0.013	0.042	µg/L	100	12.4	93	75 - 125%	PASS	0	25 PASS	
Selenium (Se)	Total	98.7	0.021	0.068	µg/L	100	0	99	75 - 125%	PASS	0	25 PASS	
Silver (Ag)	Total	8.75	0.01	0.02	µg/L	10	0	88	75 - 125%	PASS	2	25 PASS	
Zinc (Zn)	Total	110	0.022	0.069	µg/L	100	2.36	108	75 - 125%	PASS	0	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Elements QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56384-R2	**B18-SED-EB**				**Matrix: Lab Water**		**Sampled: 10-Jul-18 7:15**			**Received: 11-Jul-18**		
	Method: EPA 245.7				Batch ID: E-15082		Prepared: 04-Oct-18			Analyzed: 04-Oct-18		
Mercury (Hg)	Total	ND	0.01	0.02	µg/L					0	25 PASS	
	Method: EPA 200.8				Batch ID: E-16140		Prepared: 06-Dec-18			Analyzed: 06-Dec-18		
Aluminum (Al)	Total	ND	1.65	8.25	µg/L					0	25 PASS	
Antimony (Sb)	Total	ND	0.03	0.15	µg/L					0	25 PASS	
Arsenic (As)	Total	ND	0.05	0.159	µg/L					0	25 PASS	
Barium (Ba)	Total	ND	0.25	0.5	µg/L					0	25 PASS	
Beryllium (Be)	Total	ND	0.01	0.031	µg/L					0	25 PASS	
Cadmium (Cd)	Total	ND	0.007	0.023	µg/L					0	25 PASS	
Chromium (Cr)	Total	ND	0.01	0.05	µg/L					0	25 PASS	
Copper (Cu)	Total	0.318	0.007	0.022	µg/L					19	25 PASS	
Iron (Fe)	Total	3.28	1.13	5.65	µg/L					10	25 PASS	J
Lead (Pb)	Total	ND	0.007	0.021	µg/L					0	25 PASS	
Nickel (Ni)	Total	12.3	0.013	0.042	µg/L					2	25 PASS	
Selenium (Se)	Total	ND	0.021	0.068	µg/L					0	25 PASS	
Silver (Ag)	Total	ND	0.01	0.02	µg/L					0	25 PASS	
Zinc (Zn)	Total	2.24	0.022	0.069	µg/L					10	25 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Fipronil & Degradates — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18					Analyzed: 13-Aug-18	
Fipronil	Total	ND	0.5	2	ng/L								
Fipronil Desulfinyl	Total	ND	0.5	2	ng/L								
Fipronil Sulfide	Total	ND	0.5	2	ng/L								
Fipronil Sulfone	Total	ND	0.5	2	ng/L								
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18					Analyzed: 13-Aug-18	
Fipronil	Total	704	0.5	2	ng/L	500	0	141	40 - 157%	PASS			
Fipronil Desulfinyl	Total	615	0.5	2	ng/L	500	0	123	53 - 152%	PASS			
Fipronil Sulfide	Total	624	0.5	2	ng/L	500	0	125	44 - 160%	PASS			
Fipronil Sulfone	Total	657	0.5	2	ng/L	500	0	131	50 - 150%	PASS			
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**					**Received:**	
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18					Analyzed: 13-Aug-18	
Fipronil	Total	561	0.5	2	ng/L	500	0	112	40 - 157%	PASS	23	30 PASS	
Fipronil Desulfinyl	Total	558	0.5	2	ng/L	500	0	112	53 - 152%	PASS	9	30 PASS	
Fipronil Sulfide	Total	523	0.5	2	ng/L	500	0	105	44 - 160%	PASS	17	30 PASS	
Fipronil Sulfone	Total	551	0.5	2	ng/L	500	0	110	50 - 150%	PASS	17	30 PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 03-Aug-18		
PCB003	Total	ND	1	5	ng/L							
PCB005	Total	ND	1	5	ng/L							
PCB008	Total	ND	1	5	ng/L							
PCB015	Total	ND	1	5	ng/L							
PCB018	Total	ND	1	5	ng/L							
PCB027	Total	ND	1	5	ng/L							
PCB028	Total	ND	1	5	ng/L							
PCB029	Total	ND	1	5	ng/L							
PCB031	Total	ND	1	5	ng/L							
PCB033	Total	ND	1	5	ng/L							
PCB037	Total	ND	1	5	ng/L							
PCB044	Total	ND	1	5	ng/L							
PCB049	Total	ND	1	5	ng/L							
PCB052	Total	ND	1	5	ng/L							
PCB056(060)	Total	ND	1	5	ng/L							
PCB066	Total	ND	1	5	ng/L							
PCB070	Total	ND	1	5	ng/L							
PCB074	Total	ND	1	5	ng/L							
PCB077	Total	ND	1	5	ng/L							
PCB081	Total	ND	1	5	ng/L							
PCB087	Total	ND	1	5	ng/L							
PCB095	Total	ND	1	5	ng/L							
PCB097	Total	ND	1	5	ng/L							
PCB099	Total	ND	1	5	ng/L							
PCB101	Total	ND	1	5	ng/L							
PCB105	Total	ND	1	5	ng/L							
PCB110	Total	ND	1	5	ng/L							
PCB114	Total	ND	1	5	ng/L							
PCB118	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
PCB119	Total	ND	1	5	ng/L							
PCB123	Total	ND	1	5	ng/L							
PCB126	Total	ND	1	5	ng/L							
PCB128	Total	ND	1	5	ng/L							
PCB137	Total	ND	1	5	ng/L							
PCB138	Total	ND	1	5	ng/L							
PCB141	Total	ND	1	5	ng/L							
PCB149	Total	ND	1	5	ng/L							
PCB151	Total	ND	1	5	ng/L							
PCB153	Total	ND	1	5	ng/L							
PCB156	Total	ND	1	5	ng/L							
PCB157	Total	ND	1	5	ng/L							
PCB158	Total	ND	1	5	ng/L							
PCB167	Total	ND	1	5	ng/L							
PCB168+132	Total	ND	1	5	ng/L							
PCB169	Total	ND	1	5	ng/L							
PCB170	Total	ND	1	5	ng/L							
PCB174	Total	ND	1	5	ng/L							
PCB177	Total	ND	1	5	ng/L							
PCB180	Total	ND	1	5	ng/L							
PCB183	Total	ND	1	5	ng/L							
PCB187	Total	ND	1	5	ng/L							
PCB189	Total	ND	1	5	ng/L							
PCB194	Total	ND	1	5	ng/L							
PCB195	Total	ND	1	5	ng/L							
PCB199(200)	Total	ND	1	5	ng/L							
PCB201	Total	ND	1	5	ng/L							
PCB203	Total	ND	1	5	ng/L							
PCB206	Total	ND	1	5	ng/L							
PCB209	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 03-Aug-18		
PCB003	Total	54.5	1	5	ng/L	50	0	109	64 - 117%	PASS		
PCB005	Total	46.2	1	5	ng/L	50	0	92	50 - 150%	PASS		
PCB008	Total	52.2	1	5	ng/L	50	0	104	53 - 125%	PASS		
PCB015	Total	58.5	1	5	ng/L	50	0	117	50 - 150%	PASS		
PCB018	Total	58.5	1	5	ng/L	50	0	117	64 - 128%	PASS		
PCB027	Total	54.6	1	5	ng/L	50	0	109	50 - 150%	PASS		
PCB028	Total	52	1	5	ng/L	50	0	104	70 - 120%	PASS		
PCB029	Total	52.1	1	5	ng/L	50	0	104	50 - 150%	PASS		
PCB031	Total	52.3	1	5	ng/L	50	0	105	65 - 124%	PASS		
PCB033	Total	52.6	1	5	ng/L	50	0	105	70 - 122%	PASS		
PCB037	Total	52	1	5	ng/L	50	0	104	82 - 119%	PASS		
PCB044	Total	52.1	1	5	ng/L	50	0	104	76 - 125%	PASS		
PCB049	Total	53.4	1	5	ng/L	50	0	107	70 - 123%	PASS		
PCB052	Total	56.5	1	5	ng/L	50	0	113	71 - 121%	PASS		
PCB056(060)	Total	53.4	1	5	ng/L	50	0	107	71 - 126%	PASS		
PCB066	Total	55.5	1	5	ng/L	50	0	111	74 - 123%	PASS		
PCB070	Total	56	1	5	ng/L	50	0	112	74 - 127%	PASS		
PCB074	Total	54.5	1	5	ng/L	50	0	109	77 - 117%	PASS		
PCB077	Total	52.5	1	5	ng/L	50	0	105	76 - 123%	PASS		
PCB081	Total	50.3	1	5	ng/L	50	0	101	75 - 129%	PASS		
PCB087	Total	55.6	1	5	ng/L	50	0	111	77 - 120%	PASS		
PCB095	Total	53.7	1	5	ng/L	50	0	107	71 - 120%	PASS		
PCB097	Total	54.2	1	5	ng/L	50	0	108	71 - 126%	PASS		
PCB099	Total	55.3	1	5	ng/L	50	0	111	74 - 119%	PASS		
PCB101	Total	55.8	1	5	ng/L	50	0	112	73 - 119%	PASS		
PCB105	Total	51.2	1	5	ng/L	50	0	102	71 - 121%	PASS		
PCB110	Total	51.2	1	5	ng/L	50	0	102	76 - 119%	PASS		
PCB114	Total	52	1	5	ng/L	50	0	104	75 - 116%	PASS		
PCB118	Total	51.6	1	5	ng/L	50	0	103	76 - 115%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
PCB119	Total	52.1	1	5	ng/L	50	0	104	74 - 117%	PASS			
PCB123	Total	52	1	5	ng/L	50	0	104	75 - 114%	PASS			
PCB126	Total	51.3	1	5	ng/L	50	0	103	61 - 137%	PASS			
PCB128	Total	53.3	1	5	ng/L	50	0	107	69 - 126%	PASS			
PCB137	Total	52.2	1	5	ng/L	50	0	104	50 - 150%	PASS			
PCB138	Total	51.7	1	5	ng/L	50	0	103	73 - 117%	PASS			
PCB141	Total	51	1	5	ng/L	50	0	102	65 - 122%	PASS			
PCB149	Total	49.9	1	5	ng/L	50	0	100	70 - 117%	PASS			
PCB151	Total	54	1	5	ng/L	50	0	108	71 - 129%	PASS			
PCB153	Total	51.4	1	5	ng/L	50	0	103	70 - 120%	PASS			
PCB156	Total	58.7	1	5	ng/L	50	0	117	67 - 146%	PASS			
PCB157	Total	52.3	1	5	ng/L	50	0	105	70 - 125%	PASS			
PCB158	Total	53	1	5	ng/L	50	0	106	73 - 118%	PASS			
PCB167	Total	52	1	5	ng/L	50	0	104	67 - 125%	PASS			
PCB168+132	Total	99	1	5	ng/L	100	0	99	74 - 118%	PASS			
PCB169	Total	50.1	1	5	ng/L	50	0	100	60 - 152%	PASS			
PCB170	Total	49.7	1	5	ng/L	50	0	99	71 - 129%	PASS			
PCB174	Total	61.8	1	5	ng/L	50	0	124	69 - 132%	PASS			
PCB177	Total	57.9	1	5	ng/L	50	0	116	72 - 145%	PASS			
PCB180	Total	51.8	1	5	ng/L	50	0	104	70 - 131%	PASS			
PCB183	Total	51.5	1	5	ng/L	50	0	103	74 - 119%	PASS			
PCB187	Total	54.5	1	5	ng/L	50	0	109	72 - 122%	PASS			
PCB189	Total	47.6	1	5	ng/L	50	0	95	54 - 154%	PASS			
PCB194	Total	50.2	1	5	ng/L	50	0	100	67 - 150%	PASS			
PCB195	Total	48.5	1	5	ng/L	50	0	97	57 - 143%	PASS			
PCB199(200)	Total	52.7	1	5	ng/L	50	0	105	64 - 120%	PASS			
PCB201	Total	52.7	1	5	ng/L	50	0	105	72 - 124%	PASS			
PCB203	Total	54.8	1	5	ng/L	50	0	110	50 - 150%	PASS			
PCB206	Total	53	1	5	ng/L	50	0	106	60 - 152%	PASS			
PCB209	Total	49.7	1	5	ng/L	50	0	99	54 - 157%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 03-Aug-18		
PCB003	Total	55.7	1	5	ng/L	50	0	111	64 - 117%	PASS	2	30	PASS
PCB005	Total	47.3	1	5	ng/L	50	0	95	50 - 150%	PASS	3	30	PASS
PCB008	Total	53.1	1	5	ng/L	50	0	106	53 - 125%	PASS	2	30	PASS
PCB015	Total	58.9	1	5	ng/L	50	0	118	50 - 150%	PASS	1	30	PASS
PCB018	Total	57.8	1	5	ng/L	50	0	116	64 - 128%	PASS	1	30	PASS
PCB027	Total	54.5	1	5	ng/L	50	0	109	50 - 150%	PASS	0	30	PASS
PCB028	Total	56.4	1	5	ng/L	50	0	113	70 - 120%	PASS	8	30	PASS
PCB029	Total	52.3	1	5	ng/L	50	0	105	50 - 150%	PASS	1	30	PASS
PCB031	Total	49.3	1	5	ng/L	50	0	99	65 - 124%	PASS	6	30	PASS
PCB033	Total	51.4	1	5	ng/L	50	0	103	70 - 122%	PASS	2	30	PASS
PCB037	Total	50	1	5	ng/L	50	0	100	82 - 119%	PASS	4	30	PASS
PCB044	Total	52.5	1	5	ng/L	50	0	105	76 - 125%	PASS	1	30	PASS
PCB049	Total	54	1	5	ng/L	50	0	108	70 - 123%	PASS	1	30	PASS
PCB052	Total	52.9	1	5	ng/L	50	0	106	71 - 121%	PASS	6	30	PASS
PCB056(060)	Total	52.9	1	5	ng/L	50	0	106	71 - 126%	PASS	1	30	PASS
PCB066	Total	55.9	1	5	ng/L	50	0	112	74 - 123%	PASS	1	30	PASS
PCB070	Total	56.8	1	5	ng/L	50	0	114	74 - 127%	PASS	2	30	PASS
PCB074	Total	55.1	1	5	ng/L	50	0	110	77 - 117%	PASS	1	30	PASS
PCB077	Total	51.5	1	5	ng/L	50	0	103	76 - 123%	PASS	2	30	PASS
PCB081	Total	51.3	1	5	ng/L	50	0	103	75 - 129%	PASS	2	30	PASS
PCB087	Total	54.7	1	5	ng/L	50	0	109	77 - 120%	PASS	2	30	PASS
PCB095	Total	55.5	1	5	ng/L	50	0	111	71 - 120%	PASS	4	30	PASS
PCB097	Total	52.8	1	5	ng/L	50	0	106	71 - 126%	PASS	2	30	PASS
PCB099	Total	54.5	1	5	ng/L	50	0	109	74 - 119%	PASS	2	30	PASS
PCB101	Total	52.7	1	5	ng/L	50	0	105	73 - 119%	PASS	6	30	PASS
PCB105	Total	50.2	1	5	ng/L	50	0	100	71 - 121%	PASS	2	30	PASS
PCB110	Total	52.5	1	5	ng/L	50	0	105	76 - 119%	PASS	3	30	PASS
PCB114	Total	54.6	1	5	ng/L	50	0	109	75 - 116%	PASS	5	30	PASS
PCB118	Total	54.1	1	5	ng/L	50	0	108	76 - 115%	PASS	5	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PCB Congeners

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
PCB119	Total	51.1	1	5	ng/L	50	0	102	74 - 117%	PASS	2	30	PASS	
PCB123	Total	52.6	1	5	ng/L	50	0	105	75 - 114%	PASS	1	30	PASS	
PCB126	Total	49.1	1	5	ng/L	50	0	98	61 - 137%	PASS	5	30	PASS	
PCB128	Total	51	1	5	ng/L	50	0	102	69 - 126%	PASS	5	30	PASS	
PCB137	Total	53.7	1	5	ng/L	50	0	107	50 - 150%	PASS	3	30	PASS	
PCB138	Total	51.2	1	5	ng/L	50	0	102	73 - 117%	PASS	1	30	PASS	
PCB141	Total	53.2	1	5	ng/L	50	0	106	65 - 122%	PASS	4	30	PASS	
PCB149	Total	52.5	1	5	ng/L	50	0	105	70 - 117%	PASS	5	30	PASS	
PCB151	Total	57.2	1	5	ng/L	50	0	114	71 - 129%	PASS	5	30	PASS	
PCB153	Total	53.7	1	5	ng/L	50	0	107	70 - 120%	PASS	4	30	PASS	
PCB156	Total	59	1	5	ng/L	50	0	118	67 - 146%	PASS	1	30	PASS	
PCB157	Total	50.7	1	5	ng/L	50	0	101	70 - 125%	PASS	4	30	PASS	
PCB158	Total	51	1	5	ng/L	50	0	102	73 - 118%	PASS	4	30	PASS	
PCB167	Total	50.2	1	5	ng/L	50	0	100	67 - 125%	PASS	4	30	PASS	
PCB168+132	Total	99.5	1	5	ng/L	100	0	100	74 - 118%	PASS	1	30	PASS	
PCB169	Total	49.1	1	5	ng/L	50	0	98	60 - 152%	PASS	2	30	PASS	
PCB170	Total	49.9	1	5	ng/L	50	0	100	71 - 129%	PASS	1	30	PASS	
PCB174	Total	62.4	1	5	ng/L	50	0	125	69 - 132%	PASS	1	30	PASS	
PCB177	Total	59.5	1	5	ng/L	50	0	119	72 - 145%	PASS	3	30	PASS	
PCB180	Total	53.4	1	5	ng/L	50	0	107	70 - 131%	PASS	3	30	PASS	
PCB183	Total	53.4	1	5	ng/L	50	0	107	74 - 119%	PASS	4	30	PASS	
PCB187	Total	52.5	1	5	ng/L	50	0	105	72 - 122%	PASS	4	30	PASS	
PCB189	Total	47.5	1	5	ng/L	50	0	95	54 - 154%	PASS	0	30	PASS	
PCB194	Total	50.9	1	5	ng/L	50	0	102	67 - 150%	PASS	2	30	PASS	
PCB195	Total	48.7	1	5	ng/L	50	0	97	57 - 143%	PASS	0	30	PASS	
PCB199(200)	Total	51.8	1	5	ng/L	50	0	104	64 - 120%	PASS	1	30	PASS	
PCB201	Total	50.2	1	5	ng/L	50	0	100	72 - 124%	PASS	5	30	PASS	
PCB203	Total	58.9	1	5	ng/L	50	0	118	50 - 150%	PASS	7	30	PASS	
PCB206	Total	48.4	1	5	ng/L	50	0	97	60 - 152%	PASS	9	30	PASS	
PCB209	Total	49.9	1	5	ng/L	50	0	100	54 - 157%	PASS	1	30	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 26-Jul-18	
(DFPBDE)	Total	97			% Recovery	100	97	50 - 150%	PASS			
(FTBDE)	Total	94			% Recovery	100	94	50 - 150%	PASS			
PBDE017	Total	ND	1	5	ng/L							
PBDE028	Total	ND	1	5	ng/L							
PBDE047	Total	ND	1	5	ng/L							
PBDE049	Total	ND	1	5	ng/L							
PBDE066	Total	ND	1	5	ng/L							
PBDE071	Total	ND	1	5	ng/L							
PBDE085	Total	ND	1	5	ng/L							
PBDE099	Total	ND	1	5	ng/L							
PBDE100	Total	ND	1	5	ng/L							
PBDE138	Total	ND	1	5	ng/L							
PBDE153	Total	ND	1	5	ng/L							
PBDE154	Total	ND	1	5	ng/L							
PBDE183	Total	ND	1	5	ng/L							
PBDE190	Total	ND	1	5	ng/L							
PBDE209	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 26-Jul-18	
(DFPBDE)	Total	92			% Recovery	100	0	92	50 - 150%		PASS	
(FTBDE)	Total	87			% Recovery	100	0	87	50 - 150%		PASS	
PBDE017	Total	59.9	1	5	ng/L	50	0	120	50 - 150%		PASS	
PBDE028	Total	60.9	1	5	ng/L	50	0	122	50 - 150%		PASS	
PBDE047	Total	55	1	5	ng/L	50	0	110	50 - 150%		PASS	
PBDE049	Total	42.4	1	5	ng/L	50	0	85	50 - 150%		PASS	
PBDE066	Total	56.5	1	5	ng/L	50	0	113	50 - 150%		PASS	
PBDE071	Total	63.9	1	5	ng/L	50	0	128	50 - 150%		PASS	
PBDE085	Total	53.5	1	5	ng/L	50	0	107	50 - 150%		PASS	
PBDE099	Total	45.1	1	5	ng/L	50	0	90	50 - 150%		PASS	
PBDE100	Total	50.3	1	5	ng/L	50	0	101	50 - 150%		PASS	
PBDE138	Total	39.7	1	5	ng/L	50	0	79	50 - 150%		PASS	
PBDE153	Total	39.8	1	5	ng/L	50	0	80	50 - 150%		PASS	
PBDE154	Total	42.5	1	5	ng/L	50	0	85	50 - 150%		PASS	
PBDE183	Total	34.6	1	5	ng/L	50	0	69	50 - 150%		PASS	
PBDE190	Total	29.7	1	5	ng/L	50	0	59	50 - 150%		PASS	
PBDE209	Total	124	1	5	ng/L	250	0	50	50 - 150%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

PolyBrominated Diphenyl Ethers QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**		
	Method: EPA 625-NCI				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 26-Jul-18		
(DFPBDE)	Total	92			% Recovery	100	0	92	50 - 150%	PASS	0	30	PASS
(FTBDE)	Total	86			% Recovery	100	0	86	50 - 150%	PASS	1	30	PASS
PBDE017	Total	57.2	1	5	ng/L	50	0	114	50 - 150%	PASS	5	30	PASS
PBDE028	Total	59.9	1	5	ng/L	50	0	120	50 - 150%	PASS	2	30	PASS
PBDE047	Total	52.2	1	5	ng/L	50	0	104	50 - 150%	PASS	6	30	PASS
PBDE049	Total	48.1	1	5	ng/L	50	0	96	50 - 150%	PASS	12	30	PASS
PBDE066	Total	54.3	1	5	ng/L	50	0	109	50 - 150%	PASS	4	30	PASS
PBDE071	Total	61.7	1	5	ng/L	50	0	123	50 - 150%	PASS	4	30	PASS
PBDE085	Total	46.5	1	5	ng/L	50	0	93	50 - 150%	PASS	14	30	PASS
PBDE099	Total	46.2	1	5	ng/L	50	0	92	50 - 150%	PASS	2	30	PASS
PBDE100	Total	45.9	1	5	ng/L	50	0	92	50 - 150%	PASS	9	30	PASS
PBDE138	Total	39.5	1	5	ng/L	50	0	79	50 - 150%	PASS	0	30	PASS
PBDE153	Total	38.6	1	5	ng/L	50	0	77	50 - 150%	PASS	4	30	PASS
PBDE154	Total	41.4	1	5	ng/L	50	0	83	50 - 150%	PASS	2	30	PASS
PBDE183	Total	37.3	1	5	ng/L	50	0	75	50 - 150%	PASS	8	30	PASS
PBDE190	Total	32.8	1	5	ng/L	50	0	66	50 - 150%	PASS	11	30	PASS
PBDE209	Total	163	1	5	ng/L	250	0	65	50 - 150%	PASS	26	30	PASS

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 03-Aug-18	
(d10-Acenaphthene)	Total	81			% Recovery	100	81	65 - 113%	PASS			
(d10-Phenanthrene)	Total	95			% Recovery	100	95	80 - 111%	PASS			
(d12-Chrysene)	Total	99			% Recovery	100	99	60 - 139%	PASS			
(d12-Perylene)	Total	98			% Recovery	100	98	36 - 161%	PASS			
(d8-Naphthalene)	Total	64			% Recovery	100	64	44 - 119%	PASS			
1,6,7-Trimethylnapthalene	Total	ND	1	5	ng/L							
1-Methylnaphthalene	Total	ND	1	5	ng/L							
1-Methylphenanthrene	Total	ND	1	5	ng/L							
2,6-Dimethylnaphthalene	Total	ND	1	5	ng/L							
2-Methylnaphthalene	Total	ND	1	5	ng/L							
Acenaphthene	Total	ND	1	5	ng/L							
Acenaphthylene	Total	ND	1	5	ng/L							
Anthracene	Total	ND	1	5	ng/L							
Benz[a]anthracene	Total	ND	1	5	ng/L							
Benzo[a]pyrene	Total	ND	1	5	ng/L							
Benzo[b]fluoranthene	Total	ND	1	5	ng/L							
Benzo[e]pyrene	Total	ND	1	5	ng/L							
Benzo[g,h,i]perylene	Total	ND	1	5	ng/L							
Benzo[k]fluoranthene	Total	ND	1	5	ng/L							
Biphenyl	Total	ND	1	5	ng/L							
Chrysene	Total	ND	1	5	ng/L							
Dibenz[a,h]anthracene	Total	ND	1	5	ng/L							
Dibenzothiophene	Total	ND	1	5	ng/L							
Fluoranthene	Total	ND	1	5	ng/L							
Fluorene	Total	ND	1	5	ng/L							
Indeno[1,2,3-cd]pyrene	Total	ND	1	5	ng/L							
Naphthalene	Total	ND	1	5	ng/L							
Perylene	Total	ND	1	5	ng/L							
Phenanthrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	ND	1	5	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 03-Aug-18		
(d10-Acenaphthene)	Total	83			% Recovery	100	0	83	65 - 113% PASS			
(d10-Phenanthrene)	Total	95			% Recovery	100	0	95	80 - 111% PASS			
(d12-Chrysene)	Total	112			% Recovery	100	0	112	60 - 139% PASS			
(d12-Perylene)	Total	93			% Recovery	100	0	93	36 - 161% PASS			
(d8-Naphthalene)	Total	60			% Recovery	100	0	60	44 - 119% PASS			
1,6,7-Trimethylnapthalene	Total	446	1	5	ng/L	500	0	89	70 - 130% PASS			
1-Methylnaphthalene	Total	411	1	5	ng/L	500	0	82	70 - 130% PASS			
1-Methylphenanthrene	Total	587	1	5	ng/L	500	0	117	70 - 130% PASS			
2,6-Dimethylnaphthalene	Total	436	1	5	ng/L	500	0	87	70 - 130% PASS			
2-Methylnaphthalene	Total	393	1	5	ng/L	500	0	79	70 - 130% PASS			
Acenaphthene	Total	476	1	5	ng/L	500	0	95	70 - 130% PASS			
Acenaphthylene	Total	483	1	5	ng/L	500	0	97	70 - 130% PASS			
Anthracene	Total	580	1	5	ng/L	500	0	116	70 - 130% PASS			
Benz[a]anthracene	Total	698	1	5	ng/L	500	0	140	70 - 130% PASS			Q
Benzo[a]pyrene	Total	568	1	5	ng/L	500	0	114	70 - 130% PASS			
Benzo[b]fluoranthene	Total	557	1	5	ng/L	500	0	111	70 - 130% PASS			
Benzo[e]pyrene	Total	549	1	5	ng/L	500	0	110	70 - 130% PASS			
Benzo[g,h,i]perylene	Total	597	1	5	ng/L	500	0	119	70 - 130% PASS			
Benzo[k]fluoranthene	Total	523	1	5	ng/L	500	0	105	70 - 130% PASS			
Biphenyl	Total	432	1	5	ng/L	500	0	86	70 - 130% PASS			
Chrysene	Total	583	1	5	ng/L	500	0	117	70 - 130% PASS			
Dibenz[a,h]anthracene	Total	577	1	5	ng/L	500	0	115	70 - 130% PASS			
Dibenzothiophene	Total	535	1	5	ng/L	500	0	107	70 - 130% PASS			
Fluoranthene	Total	581	1	5	ng/L	500	0	116	70 - 130% PASS			
Fluorene	Total	500	1	5	ng/L	500	0	100	70 - 130% PASS			
Indeno[1,2,3-cd]pyrene	Total	576	1	5	ng/L	500	0	115	70 - 130% PASS			
Naphthalene	Total	355	1	5	ng/L	500	0	71	70 - 130% PASS			
Perylene	Total	539	1	5	ng/L	500	0	108	70 - 130% PASS			
Phenanthrene	Total	536	1	5	ng/L	500	0	107	70 - 130% PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODE
Pyrene	Total	592	1	5	ng/L	500	0	118	70 - 130%	PASS			

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 625				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 03-Aug-18			
(d10-Acenaphthene)	Total	94			% Recovery	100	0	94	65 - 113%	PASS	12	30	PASS	
(d10-Phenanthrene)	Total	102			% Recovery	100	0	102	80 - 111%	PASS	7	30	PASS	
(d12-Chrysene)	Total	116			% Recovery	100	0	116	60 - 139%	PASS	4	30	PASS	
(d12-Perylene)	Total	100			% Recovery	100	0	100	36 - 161%	PASS	7	30	PASS	
(d8-Naphthalene)	Total	78			% Recovery	100	0	78	44 - 119%	PASS	26	30	PASS	
1,6,7-Trimethylnapthalene	Total	480	1	5	ng/L	500	0	96	70 - 130%	PASS	8	25	PASS	
1-Methylnaphthalene	Total	504	1	5	ng/L	500	0	101	70 - 130%	PASS	21	25	PASS	
1-Methylphenanthrene	Total	614	1	5	ng/L	500	0	123	70 - 130%	PASS	5	25	PASS	
2,6-Dimethylnaphthalene	Total	494	1	5	ng/L	500	0	99	70 - 130%	PASS	13	25	PASS	
2-Methylnaphthalene	Total	478	1	5	ng/L	500	0	96	70 - 130%	PASS	19	25	PASS	
Acenaphthene	Total	532	1	5	ng/L	500	0	106	70 - 130%	PASS	11	25	PASS	
Acenaphthylene	Total	535	1	5	ng/L	500	0	107	70 - 130%	PASS	10	25	PASS	
Anthracene	Total	560	1	5	ng/L	500	0	112	70 - 130%	PASS	4	25	PASS	
Benz[a]anthracene	Total	704	1	5	ng/L	500	0	141	70 - 130%	PASS	1	25	PASS	Q
Benzo[a]pyrene	Total	599	1	5	ng/L	500	0	120	70 - 130%	PASS	5	25	PASS	
Benzo[b]fluoranthene	Total	574	1	5	ng/L	500	0	115	70 - 130%	PASS	4	25	PASS	
Benzo[e]pyrene	Total	573	1	5	ng/L	500	0	115	70 - 130%	PASS	4	25	PASS	
Benzo[g,h,i]perylene	Total	629	1	5	ng/L	500	0	126	70 - 130%	PASS	6	25	PASS	
Benzo[k]fluoranthene	Total	549	1	5	ng/L	500	0	110	70 - 130%	PASS	5	25	PASS	
Biphenyl	Total	492	1	5	ng/L	500	0	98	70 - 130%	PASS	13	25	PASS	
Chrysene	Total	595	1	5	ng/L	500	0	119	70 - 130%	PASS	2	25	PASS	
Dibenz[a,h]anthracene	Total	560	1	5	ng/L	500	0	112	70 - 130%	PASS	3	25	PASS	
Dibenzothiophene	Total	564	1	5	ng/L	500	0	113	70 - 130%	PASS	5	25	PASS	
Fluoranthene	Total	588	1	5	ng/L	500	0	118	70 - 130%	PASS	2	25	PASS	
Fluorene	Total	539	1	5	ng/L	500	0	108	70 - 130%	PASS	8	25	PASS	
Indeno[1,2,3-cd]pyrene	Total	590	1	5	ng/L	500	0	118	70 - 130%	PASS	3	25	PASS	
Naphthalene	Total	458	1	5	ng/L	500	0	92	70 - 130%	PASS	26	25	PASS	Q
Perylene	Total	560	1	5	ng/L	500	0	112	70 - 130%	PASS	4	25	PASS	
Phenanthrene	Total	571	1	5	ng/L	500	0	114	70 - 130%	PASS	6	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Polynuclear Aromatic Hydrocarbons QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Pyrene	Total	628	1	5	ng/L	500	0	126	70 - 130%	PASS	7	25	PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-B1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**			**Received:**		
	Method: EPA 625-MRM				Batch ID: O-20130		Prepared: 12-Jul-18			Analyzed: 13-Aug-18		
Allethrin	Total	ND	0.5	2	ng/L							
Bifenthrin	Total	ND	0.5	2	ng/L							
Cyfluthrin	Total	ND	0.5	2	ng/L							
Cyhalothrin, Total Lambda	Total	ND	0.5	2	ng/L							
Cypermethrin	Total	ND	0.5	2	ng/L							
Danitol (Fenpropathrin)	Total	ND	0.3	2	ng/L							
Deltamethrin/Tralomethrin	Total	ND	0.5	2	ng/L							
Esfenvalerate	Total	ND	0.5	2	ng/L							
Fenvalerate	Total	ND	0.5	2	ng/L							
Fluvalinate	Total	ND	0.5	2	ng/L							
Permethrin, cis-	Total	ND	2	4	ng/L							
Permethrin, trans-	Total	ND	1	2	ng/L							
Prallethrin	Total	ND	0.5	2	ng/L							
Resmethrin	Total	ND	5	10	ng/L							

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODE
Sample ID: 56379-BS1	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**	
	Method: EPA 625-MRM				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 13-Aug-18	
Allethrin	Total	502	0.5	2	ng/L	500	0	100	63 - 124%		PASS	
Bifenthrin	Total	633	0.5	2	ng/L	500	0	127	58 - 137%		PASS	
Cyfluthrin	Total	384	0.5	2	ng/L	500	0	77	55 - 140%		PASS	
Cyhalothrin, Total Lambda	Total	463	0.5	2	ng/L	500	0	93	59 - 138%		PASS	
Cypermethrin	Total	385	0.5	2	ng/L	500	0	77	56 - 139%		PASS	
Danitol (Fenpropathrin)	Total	538	0.3	2	ng/L	500	0	108	65 - 131%		PASS	
Deltamethrin/Tralomethrin	Total	392	0.5	2	ng/L	500	0	78	17 - 166%		PASS	
Esfenvalerate	Total	372	0.5	2	ng/L	500	0	74	46 - 149%		PASS	
Fenvalerate	Total	390	0.5	2	ng/L	500	0	78	49 - 146%		PASS	
Fluvalinate	Total	379	0.5	2	ng/L	500	0	76	36 - 159%		PASS	
Permethrin, cis-	Total	108	2	4	ng/L	134	0	81	27 - 164%		PASS	
Permethrin, trans-	Total	299	1	2	ng/L	358	0	84	41 - 147%		PASS	
Prallethrin	Total	569	0.5	2	ng/L	500	0	114	58 - 122%		PASS	
Resmethrin	Total	0	5	10	ng/L	500	0	0	0 - 94%		PASS	

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature
1904 E. Wright Circle, Anaheim CA 92806 main: (714) 602-5320 fax: (714) 602-5321 www.physislabs.com info@physislabs.com CA ELAP #2769

Pyrethroids QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODE
Sample ID: 56379-BS2	**QAQC Procedural Blank**				**Matrix: DI Water**		**Sampled:**				**Received:**			
	Method: EPA 625-MRM				Batch ID: O-20130		Prepared: 12-Jul-18				Analyzed: 13-Aug-18			
Allethrin	Total	489	0.5	2	ng/L	500	0	98	63 - 124%	PASS	2	30	PASS	
Bifenthrin	Total	540	0.5	2	ng/L	500	0	108	58 - 137%	PASS	16	30	PASS	
Cyfluthrin	Total	450	0.5	2	ng/L	500	0	90	55 - 140%	PASS	16	30	PASS	
Cyhalothrin, Total Lambda	Total	493	0.5	2	ng/L	500	0	99	59 - 138%	PASS	6	30	PASS	
Cypermethrin	Total	454	0.5	2	ng/L	500	0	91	56 - 139%	PASS	17	30	PASS	
Danitol (Fenpropathrin)	Total	461	0.3	2	ng/L	500	0	92	65 - 131%	PASS	16	30	PASS	
Deltamethrin/Tralomethrin	Total	610	0.5	2	ng/L	500	0	122	17 - 166%	PASS	44	30	FAIL	R
Esfenvalerate	Total	611	0.5	2	ng/L	500	0	122	46 - 149%	PASS	49	30	FAIL	R
Fenvalerate	Total	612	0.5	2	ng/L	500	0	122	49 - 146%	PASS	44	30	FAIL	R
Fluvalinate	Total	638	0.5	2	ng/L	500	0	128	36 - 159%	PASS	51	30	FAIL	R
Permethrin, cis-	Total	128	2	4	ng/L	134	0	96	27 - 164%	PASS	17	30	PASS	
Permethrin, trans-	Total	299	1	2	ng/L	358	0	84	41 - 147%	PASS	0	30	PASS	
Prallethrin	Total	510	0.5	2	ng/L	500	0	102	58 - 122%	PASS	11	30	PASS	
Resmethrin	Total	0	5	10	ng/L	500	0	0	0 - 94%	PASS	0	30	PASS	

SUBCONTRACT REPORT

Enthalpy Analytical, LLC
931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com

MONTROSE ENVIRONMENTAL

Client:	PHYSIS Environmental Laboratories, Inc.
Address:	1904 E. Wright Circle Anaheim, CA 92806
Attn:	Misty Mercier
Comments:	1807003-019

Lab Request:	404827
Report Date:	07/31/2018
Date Received:	07/23/2018
Client ID:	13622

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
404827-001	B18-SED-EB

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Chris Myrter, Project Specialist

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

Matrix:	Water	**Client:**	PHYSIS Environmental Laboratories, Inc.	**Collector:**	Client
Sampled:	07/10/2018 07:15	**Site:**			
Sample #:	**404827-001**	**Client Sample #:**	B18-SED-EB	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed	By	Notes
Method: EPA 351.2	Prep Method: Method						QCBatchID: QC1193771		
Total Kjeldahl Nitrogen	ND	1	0.052	0.4	mg/L	07/26/18	07/26/18	TP	

QCBatchID:	**QC1193771**	**Analyst:**	trinh	**Method:**	EPA 351.2
Matrix:	Water	**Analyzed:**	07/26/2018	**Instrument:**	CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1193771MB1					
Total Kjeldahl Nitrogen	ND	mg/L	0.052	0.4	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1193771LCS1											
Total Kjeldahl Nitrogen	2.5		2.6		mg/L	104			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1193771MS1, QC1193771MSD1												**Source: 404825-001**
Total Kjeldahl Nitrogen	0.155	12.5	12.5	12	13	mg/L	95	103	8.0	80-120	20	

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
BQ5	Minor Dissolved Oxygen loss was observed in the blank water check.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
L2	LCS did not meet recovery criteria, however, the MS and MSD met LCS recovery criteria, validating the batch.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.

CHAIN of CUSTODY

SEND TO: Enthalpy Analytical

404827

COMPANY NAME: Physis Environmental Laboratories, Inc.	EMAIL: sc@physislabs.com	PROJECT NAME / NUMBER: 1807003-019	COC PAGE: 1 of 1
PROJECT MANAGER: Misty Mercier	FAX: 714 602-5321	PO #:	PHYSIS SOS #: 1807003
COMPANY ADDRESS: 1904 E. Wright Circle, Anaheim, CA 92806	PHONE: 714 602-5320 office; 714 335-5918 cell	SAMPLED BY: TH,CS	

TYPE OF ICE USED: ☑ WET ☐ BLUE ☐ DRY

SHIPPED VIA: ☐ FEDEX ☐ UPS ☐ USPS ☐ Client ☑ Physis ☐ other

TURNAROUND TIME: ☑ STANDARD ☐ RUSH business days

REPORT FORMAT: ☑ PDF/EDD ☐ SWAMP EDD ☐ other

SPECIAL INSTRUCTIONS

please report down the MDL

LW - Lab Water

PHYSIS MATRIX CODES

SW = seawater **FW** = freshwater **RW** = rainwater
WW = wastewater **DW** = drinking water
S = sediment **T** = tissue **E** = extract **O** = other (specify)

REQUESTED ANALYSES

	SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE date	SAMPLE time	physis matrix code	# of bottles	TKN
1	B18-SED-EB		7/10/18	7:15	LW	1	X
2							
3							
4							
5							
6							
7							
8							
9							
X							

RELINQUISHED BY print	signature	company	date & time	RECEIVED BY print	signature	company	date & time
Mark Baker		Physis	7/23/18 1540			Enthalpy Analytical	7/23/18 1540

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Physis Project: 1706003-002

Date Received: 7/23/18 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.3 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 7/24/18

CHAIN OF CUSTODY

CHAIN OF CUSTODY RECORD

STANDARD

CLIENT NAME:	PROJECT:
Wood Environment & Infrastructure Solutions, Inc.	2018 Regional Harbor Monitoring Program
ADDRESS: 9210 Sky Park Ct., Suite 200, San Diego, CA 92123	PHONE: 858-300-4316 FAX: 858-300-4301 EMAIL: chris.stransky@woodplc.com, corey.sheredy@woodplc.com
PROJECT MANAGER: Chris Stransky	SAMPLER: Tyler Huff, Chris Stransky

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Pyrethroid, OCP, PCB, Toxaphene, PAH, PBDE, FIP	Total Metals (1640)	Total Mercury (EPA 245.7)	Ammonia	Nitrate, Nitrite	Total Organic Carbon	Total Suspended Solids (TSS) (EPA 2540D)	TKN	Total Phosphorus	
	7/10/18	0715	DI	B18-SED-EB	9	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	7/11/18 0940	[signature] 7/11/18 09:40
RELINQUISHED BY	DATE / TIME	RECEIVED BY
RELINQUISHED BY	DATE / TIME	RECEIVED BY

SAMPLE CONDITION:

Actual Temperature:

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Intact	Y / N
Preserved at Lab	Y / N

SAMPLE TYPE CODE:

AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION

See attached Analyte List for handling/preservation procedures.

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Physis Project ID
1807003-002

Sample Receipt Summary

Client: Wood Environment & Infrastructure Solutions, Inc Date Received: 7/11/2018 Received By: AI Inspected By: RGH

Courier:	Cooler:	Temperature:
☑ Physis ☐ FEDEX ☐ UPS ☐ Client	☑ Cooler ☐ Box Total #: 5	☐ BLUE ☑ WET ☐ DRY
Start 6:30 End 11:40 ☐ Other:	☐ Other :	☐ None 10.9 °C

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out.....Yes
2. All sample containers arrived intact.....Yes
3. All samples listed on COC(s) are present.....Yes
4. Information on containers consistent with information on COC(s).....Yes
5. Correct containers and volume for all analyses indicated.....Yes
6. All samples received within method holding time.....Yes
7. Correct preservation used for all analyses indicated.....No; see notes below
8. Name of sampler included on COC(s).....Yes

Notes:

Picked up at the same time as 1807003-001.
See Temperature
Received a 2nd bag of sediment for each sample, says MEI FAWNA. - client asked for it back.
Received 1 sample B18-10068 cell assay, Alvin Mehinto. - client asked for it back.
Received all of the archived sediments. - client asked for it back.