

Appendix C

Sediment Chemistry

Table 1 - Metals and Nutrients

Sample Name	Metals								Nutrients		
	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Zinc	
06-33	26	11	78	100	240000	840	4500	-	32	4000	Total Organic Carbon
06-26	-	-	-	-	-	-	-	-	-	-	Total Kjeldahl Nitrogen
06-24	-	-	-	-	-	-	-	-	-	-	Total Phosphorus
06-21	25	8.7	63	99	200000	670	3700	-	30	3300	
06-19	-	-	-	-	-	-	-	-	-	-	
06-18	21	11	92	97	150000	1000	3700	-	33	5000	
05-5	8	1.9	42	51	48000	200	1400	-	21	1100	
05-3	16	5.8	85	86	95000	570	2400	-	30	3900	
05-2	7	1.6	53	47	41000	140	1400	-	22	1100	
05-1	11	2.8	65	77	65000	280	2100	-	28	1600	
04-6	16	6.2	120	72	78000	860	3800	3.5	21	4900	
04-57	1.5	0.1	7.5	10	7500	4	110	0.04	8.3	22	
04-56	5	1	21	23	25000	13	700	0.04	19	57	
04-27	8.4	3.6	34	45	40000	170	920	0.34	19	890	
01-9	-	20	116	33.6	154000	601	3330	-	5	4500	
01-8	-	20	109	51.2	150000	998	2960	-	5	5930	
01-7	-	20	112	42.4	136000	754	2890	-	5	5290	
01-6	-	20	107	42.2	120000	511	2620	-	5	3820	
01-5	-	20	70	37.8	73300	269	1800	-	5	2250	
01-47	-	20	89	78.2	92200	359	2300	-	19	2190	
01-46	-	20	74	61	72300	236	1870	-	12.5	1600	
01-45	-	20	67.5	58	72900	235	1900	-	17	1580	

Hamilton, Ontario, Randle Reef Sediment Remediation Project (Stage 1)
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Sample Name	Metals										Nutrients		
	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Zinc	Total Organic Carbon	Total Kjeldahl Nitrogen	Total Phosphorus
01-44	-	20	65.5	48.6	71300	202	1860	-	5	1360	-	-	-
01-43	-	20	89.5	65.6	104000	399	2250	-	12	2330	-	-	-
01-42	-	20	85.5	70.8	82200	319	2010	-	19.5	2060	-	-	-
01-41	-	20	73	49	146000	573	2550	-	5	2240	-	-	-
01-40	-	20	75.5	33.8	80000	347	1900	-	5	2630	-	-	-
01-4	-	20	71	36.6	92200	317	2070	-	7.5	1990	-	-	-
01-39	-	20	69.5	48.2	58900	155	1670	-	12	1270	-	-	-
01-38	-	20	82.5	67.2	88700	330	2120	-	13	2180	-	-	-
01-37	-	20	87	68.6	131000	506	2460	-	6	3000	-	-	-
01-36	-	20	85	59	129000	516	2480	-	5	2740	-	-	-
01-35	-	20	69.5	58	71500	227	1880	-	15	1510	-	-	-
01-34	-	20	88.5	51	85900	349	2080	-	18	3160	-	-	-
01-33	-	20	91.5	78.8	107000	428	2270	-	25.5	2620	-	-	-
01-32	-	20	87.5	60	138000	487	2630	-	7.5	2790	-	-	-
01-31	-	20	88	67.2	141000	549	2560	-	5.5	3050	-	-	-
01-30	-	20	85.5	60.6	111000	388	2270	-	7	2240	-	-	-
01-3	-	20	69	29.2	133000	562	2710	-	5	3130	-	-	-
01-29	-	20	79.5	55.4	78600	253	2110	-	18	1850	-	-	-
01-28	-	20	87.5	56	150000	560	2610	-	5	3070	-	-	-
01-27	-	20	76.5	65.2	108000	367	2270	-	16.5	2230	-	-	-
01-26	-	20	73	51.4	72800	227	1830	-	14	1730	-	-	-
01-25	-	20	85	14.4	162000	611	2650	-	5	3450	-	-	-
01-24	-	20	86.5	54.4	139000	506	2580	-	9.5	2770	-	-	-

Hamilton, Ontario, Randle Reef Sediment Remediation Project (Stage 1)
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Sample Name	Metals										Nutrients		
	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Zinc	Total Organic Carbon	Total Kjeldahl Nitrogen	Total Phosphorus
01-23	-	40	92	14.6	256000	861	4780	-	10	4360	-	-	-
01-22	-	20	95.5	47.8	136000	641	2650	-	5	4490	-	-	-
01-21	-	20	67.5	51	67100	221	1790	-	11.5	1430	-	-	-
01-20	-	20	75	53.2	71200	241	1810	-	19.5	1890	-	-	-
01-2	-	20	103	72	127000	594	2690	-	13	3610	-	-	-
01-19	-	20	81.5	64.8	101000	381	2210	-	11	2200	-	-	-
01-18	-	20	105	39.8	178000	738	3460	-	5	4450	-	-	-
01-17	-	20	75	65.6	78000	219	2040	-	18.5	1600	-	-	-
01-16	-	20	73	65.4	92000	287	1990	-	10.5	1870	-	-	-
01-15	-	20	94.5	46.8	153000	566	2820	-	5	3090	-	-	-
01-14	-	20	89	78.2	92200	359	2300	-	19	2190	-	-	-
01-13	-	20	75.5	40.2	76000	323	1900	-	8	3050	-	-	-
01-12	-	20	83	45.2	83200	388	2100	-	9.5	3580	-	-	-
01-11	-	20	77	52.2	81500	280	1890	-	10.5	1940	-	-	-
01-10	-	20	49.5	13.8	148000	495	2770	-	5	2460	-	-	-
01-1	-	20	119	32.6	156000	819	3060	-	15.5	4790	-	-	-
00-2	57	0.5	93	129.5	147000	666.000	3150	2.18	67	3030	84000	2210	1780

Note(s):

1. - Not tested.
2. Unit of measure: mg/kg

Table 2 - Polycyclic Aromatic Hydrocarbons

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH
99-9	-	3.74	1.53	4.41	4.86	2.58	3.67	4.05	4.75	0.57	21	6.01	3.36	131	29.4	15.2	242.33
99-8	-	3.75	2.02	8.5	8.86	3.96	6.63	3.67	8.64	0.86	17.1	4.68	3.82	88.5	16	12.3	198.44
99-7	-	5.17	67.2	45.7	22.5	8.15	14.5	7.16	19.6	1.91	63.4	63.1	7.61	3040	175	48.1	3604.7
99-6	-	7.79	3.81	14.3	9.49	2.49	8.25	6.71	8.55	1.08	38.3	3.24	5.67	68.5	55.3	27.3	271.5
99-5	-	19.8	127	78.6	44.6	23.5	30.3	26.1	36.1	34.5	84.5	179	18.5	62600	303	43.7	63692.1
99-4	-	64.9	939	352	127	45	89.7	50.6	109	19.6	348	485	60.5	52100	1150	230	56284.3
99-3	-	68.8	1740	1000	449	168	297	124	385	39.8	1260	1250	155	38100	2130	855	48338.6
99-29	-	-	1.63	2.29	0.98	0.34	0.48	0.26	1.1	0.06	3.31	1.08	0.28	353	0.18	2.21	367.86
99-28	-	0.01	0.01	0.05	0.07	0.04	0.04	0.29	0.06	0.01	0.1	0.04	0.02	1.33	0.14	0.08	1.7
99-27	-	0.02	0.18	0.17	0.04	0.01	0.01	0.01	0.02	0.01	0.14	0.27	0.01	15.2	0.61	0.09	16.6
99-26	-	0.06	0.09	0.21	0.36	0.24	0.37	0.5	0.47	0.06	0.74	0.15	0.36	2.37	0.7	0.59	7.6
99-25	-	0.1	0.21	0.24	0.03	0.01	0.01	0.01	0.1	-	0.19	0.17	0.01	101	1.39	0.11	103.2
99-24	-	0.115	0.118	0.133	0.225	0.146	0.121	0.175	0.1	0.15	0.052	0.139	0.175	0.086	0.073	0.12	2.2
99-23	-	0.13	0.18	0.42	0.3	0.14	0.14	0.11	0.25	0.04	0.78	0.28	0.09	36.1	1.16	0.53	40.27
99-22	-	0.14	0.46	0.83	0.15	0.05	0.07	0.05	0.19	0.01	0.87	0.72	0.04	27.7	2.82	0.7	34.4
99-21	-	0.33	0.29	0.29	0.11	0.06	0.06	0.05	0.12	0.01	0.35	0.24	0.05	20.1	1.07	0.24	23.03
99-20	-	0.34	0.03	0.31	0.08	0.05	0.06	0.04	0.09	0.01	0.34	0.33	0.03	1.69	1.06	0.22	4.29
99-2	-	154	107	301	292	88	264	182	287	29.3	1160	330	178	2290	1250	855	8070.3

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)															Total PAH	
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene		
99-19	-	0.36	0.11	0.71	0.83	0.42	0.58	0.38	0.77	0.08	1.78	0.68	0.43	2.73	0.64	1.25	12.4
99-18	-	0.38	0.1	0.26	0.02	0.01	0.01	0.01	0.11	0.01	0.28	0.65	0.01	32.5	1.07	0.17	35.4
99-17	-	0.43	0.18	0.93	0.71	0.36	0.56	0.54	0.72	0.08	2.45	0.86	0.49	11.8	1.81	1.82	24.3
99-16	-	0.47	0.05	0.18	0.08	0.03	0.03	0.04	0.12	0.01	0.12	0.5	0.02	20.6	0.91	0.09	22.9
99-15	-	0.57	0.12	0.33	0.16	0.19	0.08	0.09	0.2	0.02	0.43	0.15	0.07	21.3	0.94	0.31	24.5
99-14	-	0.67	0.16	0.8	0.34	0.15	0.21	0.15	0.33	0.03	0.89	1.06	0.15	21.4	2.43	0.62	29.4
99-13	-	0.69	1.38	5.19	4.5	2.42	2.42	2.08	4.85	0.35	11.1	4.85	1.73	40.9	18.4	7.96	113.7
99-12	-	0.7	0.14	0.28	0.09	0.05	0.05	0.08	0.13	0.01	0.23	0.87	0.05	56.6	1.42	0.16	60.5
99-11	-	1.34	0.1	0.27	0.21	0.08	0.09	0.09	0.22	0.01	0.43	1.09	0.06	9.06	1.12	0.31	13.84
99-10	-	2.33	2.88	4.15	1.15	0.4	0.51	0.36	1.07	0.08	4.03	6.28	0.24	1110	16.4	2.73	1153.44
99-1	-	198	901	1030	230	77.5	168	103	221	24.5	675	675	111	66800	1880	458	73755
96-99	-	7.67	1.44	8.74	27.2	9.25	23.7	18.1	22.9	2.75	65.9	6.63	20.7	161	44.8	50	503.48
96-97	-	8.68	1.4	10.4	22.5	7.96	20.3	17	18.5	3.07	48.2	8.23	17.1	169	35.5	36.1	450.74
96-96	-	9.23	1.221	12.5	23.1	6.94	20.3	15.3	19.5	2.87	51	8.76	15.1	268	38.6	37	555.621
96-94	-	9.83	4.2	11.9	56.2	19	47.6	32.9	46.6	6.04	108	9.75	39.6	384	64.7	83.1	981.52
96-93	-	10.2	1.85	10.6	33.8	7.2	19.1	14.7	24	3.76	58.1	8.94	16.1	357	46.3	42.8	682.25
96-90	-	10.6	2.14	10.5	36	9.86	26.2	18.6	28.7	3.68	71	10.4	22.6	2030	56.2	51.2	2422.18
96-9	-	38.7	159	146	143	39.6	113	62.1	332	15.2	127	156	72.5	46200	482	217	48444.1
96-87	-	12.9	1.63	14.2	26.1	9.47	18.4	12.7	21.5	3.04	47.3	78.2	12.2	1280	38.3	34.2	1633.34

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
96-86	-	13.6	1.2	14.4	27.3	8.6	17.9	23.9	18.6	3.29	54.5	12.1	27.7	329	51.6	38.8	666.19
96-85	-	13.9	2.02	17.6	40.8	10.7	31.7	22.4	31.5	4.03	88.7	13.1	30.5	193	74.4	67	684.75
96-83	-	15.5	1.89	10.2	28.2	9.33	22.8	18.6	21.3	2.94	68	15.3	26	108	69.1	51.4	500.26
96-82	-	15.7	22.9	25.1	30.5	7.15	18.6	10.8	22.4	2.49	84.9	31.5	17.3	1810	29.7	61.4	2215.44
96-81	-	15.8	1.61	16.9	30.1	9.47	26.4	18.1	24.2	3.34	68.3	12.3	18.8	5170	54.2	49.4	5551.12
96-80	-	16.2	47.9	36.5	36.2	8.37	24.6	13.1	29.1	3.57	81.3	39.4	13.6	19200	103	56.8	19738.7
96-79	-	16.5	2.1	23.2	37.7	13.9	36.1	24.7	31.8	4.41	95.6	16.5	27.4	364	80.5	70.8	889.71
96-78	-	17.2	1.98	34	69.5	29.9	76.7	50.5	62.5	7.56	196	16.7	59.6	71.4	134	145	1066.44
96-76	-	19.7	1.81	19.8	50.7	9.69	38.1	25.1	38.6	4.45	100	17.7	34	2830	70.7	71.8	3382.35
96-75	-	19.7	16	26	37.9	10.3	21.6	25.3	25.3	4.38	84.9	26.8	30.7	10800	87.3	56.9	11304.7
96-74	-	20.3	1.65	24.3	36.5	12.6	31.5	28.9	28.5	3.97	105	20.7	31.6	503	97	76.8	1359.92
96-73	-	22.3	1.86	21.6	37.6	12.6	32.4	22.9	31.89	4.3	91.2	21	24.5	3530	76.8	64	4034.15
96-72	-	22.6	2.18	25	47.7	19.2	45.5	29.4	39.4	4.37	138	20.2	33.8	1230	126	104	1944.55
96-71	-	23.6	25.6	41.9	74.1	27	63	38.1	64.9	6.93	189	32.2	46.7	12400	174	137	13420
96-70	-	25.1	3.5	19.3	53.2	9.11	41.2	27.3	40.2	6.92	112	19.1	32	7970	86.3	80.9	8581.23
96-7	-	47.4	8.18	49.5	38.4	11.5	30.9	17.1	30.8	5.24	94.8	103	21	14100	155	69.2	14821.6
96-68	-	28.8	3.69	28.5	62.3	16.9	52.6	38.5	50.4	6.43	142	30	48.5	412	134	106	1227.12
96-67	-	30.3	3.98	43.5	96.6	27	79.6	51.7	80.8	8.21	257	40.5	66.9	725	219	192	2018.69
96-66	-	32.9	1.84	22.8	53.4	12.7	42.2	29.8	46.5	4.67	121	27	39.1	3050	98.2	87.6	3724.91

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
96-65	-	39.5	3.16	26.4	35.3	11.3	33.2	21.2	30.5	4.42	85.1	26.6	22.7	18700	82.7	59.6	19223.7
96-64	-	43	1.39	27.4	40.9	14.2	35.2	32.3	29.3	5.29	102	28.4	36.9	5070	92.8	69	5671.58
96-63	-	55.5	2.31	30.4	35.1	13.5	23.7	26.8	23.5	3.37	133	58.2	32.2	1070	203	95.2	1838.48
96-62	-	70.5	209	87.9	70.5	14.4	49.8	38.6	57	7.48	182	124	43.4	54500	284	124	55924.3
96-61	-	166	25.5	148	369	122	260	313	261	45.1	781	126	358	2580	516	567	6985.6
96-60	-	441	45.1	424	757	259	724	524	673	67.9	3240	576	538	10300	4060	2370	25838
96-6	-	47.7	186	173	142	44	112	61	123	13.5	337	175	74.2	39400	534	225	41783.4
96-59	-	0.4	0.4	0.66	1.2	0.44	0.86	0.4	0.97	0.4	1.96	1.76	0.49	2.37	1.34	1.82	16.6
96-56	-	0.6	0.4	1.03	1.83	0.53	1.23	0.64	1.54	0.4	2.88	4.56	0.79	3.84	2.16	2.43	26.5
96-55	-	0.83	1.78	3.03	8.34	2.28	4.92	2.83	7.09	0.97	10.3	1.8	4	22	9.07	8.05	94.24
96-54	-	0.97	2.27	1.57	3.95	0.76	2.07	1.25	4.55	0.4	7.59	20.5	1.35	653	10.4	6.45	720.65
96-53	-	1.06	34	53.7	33.6	9.2	25	12.2	27.1	4.37	86	247	16.1	9200	160	63.1	10002.9
96-50	-	1.78	1.98	2.92	13.5	4.76	12.8	9.35	12.3	2.14	27.6	8	10.4	26.1	15.4	21.5	186.73
96-5	-	48.9	8.26	41.2	76.2	15	55.8	38.2	57.6	13.8	164	59.7	46.9	13600	190	114	14615
96-49	-	1.97	6.19	6.02	7.97	2.18	4.88	2.95	7.51	0.86	14.7	23.8	3.32	555	18.4	11	673.23
96-48	-	2	0.85	3.09	7.09	2	4.52	2.31	5.88	0.77	13.4	26.5	2.91	6.88	13.4	10.3	108.11
96-47	-	2.04	1.12	3.29	5	2.01	3.42	3.83	4.17	1.04	9.24	15.7	5.55	8.25	7.72	7.01	84.22
96-45	-	3.15	1.03	3.25	4.39	1.43	2.83	1.4	3.62	0.42	8.34	17.2	1.72	400	6.84	5.8	465.04
96-44	-	4.02	13.2	16.2	16.8	4.22	9.44	5.38	15.1	1.75	40.4	75.2	5.1	1340	47.9	29.8	1636.81

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAH
96-43	-	4.1	22.9	21	33	4.9	15.9	10.1	23.5	6.14	79	110	8.6	2690	105	53.9	3214
96-42	-	4.43	11.7	14.6	29.9	4.27	15.9	8.32	21	5.46	65.2	125	9.76	1420	77.4	44.9	1885.24
96-41	-	4.73	20.2	19.2	15	3.95	8.97	4.73	13.1	1.42	43.2	42.5	5.89	1260	67.2	30.8	1553.09
96-40	-	4.88	2.81	5.86	8.78	3.31	7.23	5.51	7.79	1.7	18.3	56.2	7.72	1230	19	13.7	1402.17
96-4	-	60	17.7	53.7	30.9	10	22.8	9.52	24.4	3.9	75	309	13.7	21500	167	55.2	22381.6
96-39	-	4.89	1.23	7.8	7.04	1.72	5.1	2.15	6.42	0.85	18	5.1	3.48	10.4	21.6	13.3	115.59
96-38	-	5.38	3.47	10.6	18.7	6.1	17.7	12.9	17.5	3.77	41.2	20.9	15.8	55.7	32.9	31.1	316.6
96-37	-	5.52	3.8	14.7	22.5	8.8	22.3	17.5	20.1	4.42	57.2	19.7	19.8	52.3	50.2	43.7	390
96-36	-	5.66	3.05	10.7	24.5	7.07	21.3	13.8	21.1	2.77	53.1	19.9	15.8	78.4	44.6	40.7	389.3
96-3	-	62.3	204	198	95.6	26.7	74.8	42.1	77.8	11.2	289	247	50.6	31800	625	190	34085
96-27	-	6.99	26.9	5.01	17	2.42	7.61	4.69	9.55	2.2	30	178	5.16	16500	36	20.6	16868.1
96-22	-	10.3	5.7	8.81	21.7	6.29	18.2	11.3	18	3.02	41.5	69.4	13.9	3830	40.5	31.3	4152.22
96-21	-	10.4	3.89	8.35	30	5.27	14.9	11.6	18.5	8.2	47.8	122	9.8	3630	45.2	34	4029.61
96-20	-	11.1	3.88	8.3	29	4.53	19.8	15.1	21.6	6.66	60.2	67.9	13.8	3820	53.2	44.5	4211.67
96-2	-	478	74.7	519	494	207	493	309	483	82.4	2490	683	315	8880	3200	1800	21091.1
96-19	-	13.6	31.1	31.2	64.7	10.4	42.7	24.7	50.2	10.6	123	199	31.7	7790	146	85	8720.5
96-18	-	14.6	6.52	34	42.1	15.9	43	32.6	39	7.31	121	54.8	34.6	61.7	113	90.2	759.83
96-16	-	15.6	15.3	30.8	35.5	13.3	33.2	21.3	29.6	4.62	96.2	87.8	23.6	55300	122	73.3	55940.1
96-14	-	18.1	3.97	15.2	24.5	6.21	19	12.5	20.2	2.83	54.4	53.8	14.7	2320	66.5	39.6	2694.21

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
96-13	-	25	5.39	26	69	16.5	55.6	44.2	51.8	13.8	145	41	43.1	3570	132	105	4422.29
96-128	-	0.52	0.35	1.16	6.36	1.26	3.04	2.59	3.91	0.59	6.35	0.67	2.66	12	4	5.31	56.52
96-127	-	0.96	0.89	2.14	11.9	2.37	6.83	6.19	8.32	1.38	11.4	1.14	6.26	24.6	7.46	8.81	111.65
96-126	-	1.08	1.13	2.44	14	2.94	9.4	7.71	10.5	1.44	16.6	1.34	9.39	18.1	10.4	13.5	135.47
96-125	-	1.34	1.17	3.28	17.1	3.32	10.4	9.16	12.2	1.95	18.4	1.65	9.16	32.8	11.6	14.2	164
96-123	-	1.78	1.31	3.78	18.2	4.18	11.1	10.9	12.7	2.43	24.4	2.23	11	37.6	12.5	18.7	193.01
96-121	-	2.37	1.12	4.97	13.4	5.86	11.6	9.01	11.2	1.67	24.4	3.12	7.97	21	14.7	18.5	166.59
96-12	-	28.6	6.11	26.2	27.9	8.45	25.1	17.4	24.4	4.89	71.2	75.8	20.4	9410	67.5	51.1	9895.95
96-119	-	2.59	1.48	4.92	18.3	3.61	10.5	9.56	13.3	2.11	28.3	2.7	9.98	29	18.2	22.5	194.75
96-117	-	2.87	1.19	4.08	15.8	5.62	14.8	11.6	13.3	1.85	32.5	3.09	13.8	51.6	17.5	24.7	236.4
96-116	-	2.93	9.26	8.7	18.1	6.15	8.29	6.44	14.8	1.56	40.1	0.74	8.77	6760	46.3	28.8	6976.74
96-114	-	4.08	1.68	6.72	18.4	6.72	15.4	12.6	15	2.25	33.9	4.36	12.4	43	20.5	25.7	242.91
96-112	-	4.3	1.16	6.04	20.2	4.33	10.1	9.83	13.9	2.18	29.3	4.11	9.84	74.7	20	22.3	249.89
96-110	-	5.28	6.95	18.5	28.4	9.08	20.1	15.2	21.3	2.93	65.5	11.9	18.9	482	46.9	45.9	822.14
96-11	-	32	56	35.6	39.3	9.96	26.2	13.5	33.5	4.26	80.2	88.6	17.3	56700	81.9	56.5	57309
96-109	-	5.73	1.58	8.74	22.7	4.55	15.2	12.6	17.9	2.59	34.2	5.75	14.2	91.1	28.5	27	316.74
96-108	-	5.97	1.23	8.56	21	5.35	18.5	13.6	17.8	2.7	42.9	5.29	14.3	941	25.4	31.7	1178.5
96-106	-	6.11	1.48	8.22	21.9	4.18	12.6	10.7	15.2	2.59	34.8	5.97	10.8	661	30.2	26.3	872.55
96-105	-	6.224	1.42	6.51	20.9	9.08	16	13.4	16.6	2.16	45.7	5.58	16	267	34.4	34.7	520.574

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
96-102	-	7.4	14.1	20.6	25.9	6.37	12.5	11.1	16.6	2.39	59.2	113	12.9	2390	67.6	40.2	2817.36
96-101	-	7.58	2.02	9.01	30	8.07	22.5	16.9	23.1	3.65	54	6.83	18.7	148	36.2	41.6	458.36
96-100	-	7.62	1.46	8.05	29.5	6.59	21.1	16	22.2	3.46	55.1	6.99	17.7	82	39.6	42.4	391.47
96-1	-	569	159	755	853	237	790	469	794	90.2	3300	949	511	9920	4540	2340	27224.2
06-33	2.8	0.7	1.1	1.7	1.3	0.54	1.3	0.56	1.1	0.16	4.4	1	0.54	100	4.5	2.6	126.85
06-26	0.044	0.13	0.097	0.29	0.4	0.15	0.32	0.17	0.31	0.06	0.93	0.12	0.2	0.28	0.65	0.61	5.254
06-24	0.49	0.23	0.009	0.13	0.01	0.01	0.005	0.02	0.02	0.02	0.17	0.12	0.02	1.2	0.38	0.095	3.074
06-21	7.2	1.3	3.3	4.7	3.7	1.4	3	1.4	2.8	0.43	11	2.6	1.5	350	11	7.3	418.73
06-19	16	6.3	2.6	8.1	7.5	3.1	6.7	3.7	5.3	0.96	23	3.9	4	1100	21	14	1238.16
06-18	42	8.2	7.4	19	8.3	2.8	6.7	3.1	6.2	0.97	47	13	3.3	3500	49	27	3762.47
05-5	29.8	58	15.5	62.3	35.8	15.4	31.8	17.2	35	3.77	139	66.5	20	778	214	103	1595.27
05-3	102	168	29.9	124	80.6	32.7	65.4	30.9	74.1	9.15	237	153	38.8	2790	355	172	4360.55
05-2	350	634	383	831	590	251	579	415	579	100	2140	929	415	8310	3140	1610	20806
05-1	6.39	2.44	2.52	3.9	5.38	1.57	3.75	1.68	5.34	0.515	9.88	7.72	1.95	281	11.3	7.66	346.605
04-6	-	120	150	290	380	190	350	120	330	37	1100	290	150	1600	1300	750	7637
04-57	-	0.07	0.04	0.06	0.02	0.04	0.05	0.04	0.03	0.04	0.02	0.03	0.06	0.09	0.03	0.03	-
04-56	-	0.07	0.04	0.06	0.02	0.04	0.05	0.04	0.03	0.04	0.02	0.04	0.06	0.25	0.1	0.03	0.4
04-27	-	0.2	0.17	0.68	1.3	0.97	1.3	0.5	1.5	0.17	2.6	0.3	0.5	2.3	1.6	2.6	18.1
01-9	-	20	4	17	31	14	26	18	29	5.3	86	20	21	530	86	61	1005.3

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
01-8	-	23	98	110	110	44	89	46	97	16	310	110	59	8300	360	210	10102
01-7	-	27	32	36	39	19	32	20	34	5.7	120	49	29	1900	150	78	2615.7
01-6	-	27	54	67	80	32	61	36	69	11	220	79	45	3700	270	150	4985
01-5	-	27	28	57	74	31	60	36	67	11	210	49	43	1400	220	140	2534
01-47	-	1.1	6.3	15	11	5.2	8.9	4.4	10	1.4	40	13	5.5	460	57	28	677.8
01-46	-	1.2	1.8	3.6	8.4	4.3	9	6	8.2	1.6	20	1.9	6.9	81	12	15	192.9
01-45	-	1.3	1.7	3.8	9.2	4.6	9.8	6.7	9	1.9	21	1.9	7.9	130	12	16	249.8
01-44	-	1.4	1.2	3.2	8	3.6	7.6	5	7.9	1.2	15	1.9	5.5	18	12	11	112.3
01-43	-	1.6	1.5	3.6	7.8	3.9	7.9	5.2	7.5	1.5	20	2.3	6	57	13	14	163.8
01-42	-	1.8	1.2	2.8	5.4	3.2	6.9	4.3	5.2	1.2	15	2.6	5.8	17	12	12	105
01-41	-	1.8	1.8	3.8	7	4.2	9.2	5.6	6.9	1.6	18	2.5	7.7	92	12	13	198.1
01-40	-	2	0.52	2.2	4.1	1.8	3.3	2.3	4	0.64	12	2.5	2.7	43	12	8.6	106.56
01-4	-	31	4.5	24	34	15	31	21	31	4.6	140	39	27	490	180	100	1212.1
01-39	-	2	2.3	6.2	13	6.1	14	9.2	13	2.3	32	2.8	11	50	19	24	223.9
01-38	-	2.2	1	3	5.7	3.3	6.7	4.2	5.7	1	16	2.8	7.2	52	13	12	144.1
01-37	-	2.4	1.9	5.7	9.6	5	10	6.8	9.3	1.9	24	3	7.6	89	16	18	224.2
01-36	-	2.5	2	5	11	5.2	11	6.8	10	2	26	3.6	8.2	130	19	20	276.3
01-35	-	2.5	1.7	5.7	9.2	5.3	12	8.2	9.3	1.7	28	3.3	13	74	18	22	227.9
01-34	-	2.5	1.7	5.5	8.9	5.5	12	7.2	9.1	1.5	29	3.9	10	52	23	22	207.8

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
01-33	-	3.3	2.5	5.1	9.5	5.2	11	7	8.7	2	27	4.4	9.8	57	20	20	206.5
01-32	-	3.3	2.1	5.5	8.8	4.8	9.9	5.9	8.4	1.7	26	4.2	8.2	210	20	19	350.8
01-31	-	3.5	1.9	4.9	10	5.1	10	6.1	9.6	1.8	24	4.2	8.3	220	20	17	359.4
01-30	-	3.6	2	5.7	9.4	5.2	11	6.8	9	1.9	25	4.4	9.3	240	20	18	385.3
01-3	-	33	3.4	20	26	11	20	13	23	3.4	85	28	18	1400	110	59	1881.8
01-29	-	3.7	3.6	14	20	11	25	16	20	2.8	70	6.3	23	88	52	52	435.4
01-28	-	4.2	2.7	7.1	11	6.2	12	7.5	10	1.8	30	5.6	11	540	25	22	711.1
01-27	-	4.3	1.8	6	11	5.4	12	8.4	11	2	31	5.1	9	25	28	23	198
01-26	-	4.3	1.8	6	11	5.4	12	8.4	11	2	31	5.1	9	25	28	23	198
01-25	-	5.6	2.7	12	28	14	30	21	28	4.3	75	6.1	27	140	50	58	538.7
01-24	-	5.7	3.8	11	23	11	23	15	22	4.2	64	8.8	18	230	52	46	567.5
01-23	-	7.3	3.7	11	14	5.8	10	6.6	13	2	42	12	7.5	1000	49	28	1226.9
01-22	-	8.2	3.2	13	22	10	21	14	21	3.6	64	10	16	440	54	47	775
01-21	-	9	3.7	45	52	23	52	32	49	7.5	160	14	44	27	120	110	811.2
01-20	-	9.5	4.3	16	24	13	29	18	23	3.6	83	13	27	240	71	62	669.4
01-2	-	38	2.6	18	16	6.8	14	9.4	15	2.4	78	46	11	260	160	55	751.2
01-19	-	9.9	4	16	29	13	31	19	27	4.2	100	16	26	160	96	73	661.1
01-18	-	11	3.3	12	18	10	18	11	16	2.8	51	9.8	16	800	42	36	1079.9
01-17	-	11	6	24	44	20	45	30	43	7.3	130	18	35	130	110	91	800.3

Sample Name	Polycyclic Aromatic Hydrocarbons (PAHs)																Total PAH
	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3 cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
01-16	-	13	3.3	16	22	12	25	15	20	3	78	15	21	380	75	58	785.3
01-15	-	13	5.9	18	30	14	28	18	28	5.2	80	16	22	1500	76	57	1948.1
01-14	-	17	1.4	7.9	8.4	5	10	6.4	8.6	1	39	18	9.2	140	66	29	378.9
01-13	-	18	4.4	18	28	13	25	17	27	3.8	90	16	23	1300	81	65	1762.2
01-12	-	18	6.8	30	54	24	53	36	51	8.5	170	24	41	240	160	130	1113.3
01-11	-	19	5.9	30	37	19	44	27	36	5.2	150	27	40	100	150	110	850.1
01-10	-	20	4.1	18	35	16	32	22	34	5.1	96	18	29	460	84	70	985.2
01-1	-	48	78	190	140	56	110	67	150	21	370	110	81	3800	410	250	6031
00-2	-	2.7	5.1	13	20	8.6	17	7.9	18	2.1	40	38	9.3	230	38	31	498.7

Note(s):

1. - Not tested.
2. Unit of measure: mg/kg