

Table 4. Summary of Floodplain Soil/Sediment Data for Select Parameters from Geddes Brook and Ninemile Creek (1998, 2000, 2001, 2002, and 2007)

Parameter	Lower Ninemile Creek			Islands in Lower Ninemile Creek			Lower Geddes Brook			Geddes Brook IRM Sampling		
	Depth Interval (cm)	Maximum Detection	Average Detection	Depth Interval (cm)	Maximum Detection	Average Detection	Depth Interval (cm)	Maximum Detection	Average Detection	Depth Interval (cm)	Maximum Detection	Average Detection
Arsenic (mg/kg)	0 to 15	23.0	5.76	0 to 15	6.40	5.63	0 to 15	7.70	5.85	0 to 15	NA	NA
Benzo(a)pyrene (µg/kg)	0 to 15	14,000	654	0 to 15	320	248	0 to 15	8,000	1,067	0 to 15	780	340
Hexachlorobenzene (µg/kg)	0 to 15	890	91	0 to 15	745	423	0 to 15	1,650	263	0 to 15	880	328
Lead (mg/kg)	0 to 15	466	44.3	0 to 15	42.2	34.4	0 to 15	192	52.5	0 to 15	NA	NA
Mercury (mg/kg)	0 to 15	58.7	2.29	0 to 15	1.90	0.71	0 to 15	14.1	4.33	0 to 15	15.7	3.98
Methylmercury (µg/kg)	0 to 15	27.5	5.83	0 to 15	NA	NA	0 to 15	5.31	4.03	0 to 15	NA	NA
Total PAHs (µg/kg)	0 to 15	173,980	7,756	0 to 15	3,990	3,036	0 to 15	138,363	14,707	0 to 15	8,410	3,738
Total PCBs (µg/kg)	0 to 15	600	70.7	0 to 15	80.0	49.6	0 to 15	450	137	0 to 15	NA	NA
Phenol (µg/kg)	0 to 15	120	91.4	0 to 15	ND	ND	0 to 15	ND	ND	0 to 15	NA	NA
Arsenic (mg/kg)	15 to 30	31.0	5.91	15 to 45	6.00	5.68	15 to 30	8.90	5.82	15 to 30	NA	NA
Benzo(a)pyrene (µg/kg)	15 to 30	20,000	736	15 to 45	400	250	15 to 30	460	282	15 to 30	430	220
Hexachlorobenzene (µg/kg)	15 to 30	1,050	130	15 to 45	165	93	15 to 30	1,360	344	15 to 30	840	394
Lead (mg/kg)	15 to 30	317	36	15 to 45	39.8	35.1	15 to 30	173	50.7	15 to 30	NA	NA
Mercury (mg/kg)	15 to 30	59.5	3.79	15 to 45	4.70	0.99	15 to 30	33.7	11.7	15 to 30	39.1	6.14
Methylmercury (µg/kg)	15 to 30	NA	NA	15 to 45	NA	NA	15 to 30	NA	NA	15 to 30	NA	NA
Total PAHs (µg/kg)	15 to 30	283,060	8,693	15 to 45	4,590	2,976	15 to 30	4,992	2,947	15 to 30	4,720	2,370
Total PCBs (µg/kg)	15 to 30	1,050	143	15 to 45	140	59.1	15 to 30	800	462	15 to 30	NA	NA
Phenol (µg/kg)	15 to 30	66	55	15 to 45	ND	ND	15 to 30	ND	ND	15 to 30	NA	NA
Arsenic (mg/kg)	30 to 60	NA	NA	45 to 75	9.40	6.40	30 to 60	NA	NA	30 to 60	NA	NA
Benzo(a)pyrene (µg/kg)	30 to 60	1,700	298	45 to 75	270	270	30 to 60	NA	NA	30 to 60	4,000	690
Hexachlorobenzene (µg/kg)	30 to 60	6,400	1,006	45 to 75	20	20	30 to 60	NA	NA	30 to 60	8,100	2,840
Lead (mg/kg)	30 to 60	NA	NA	45 to 75	45.9	27.3	30 to 60	NA	NA	30 to 60	NA	NA
Mercury (mg/kg)	30 to 60	76.9	4.16	45 to 75	0.85	0.32	30 to 60	NA	NA	30 to 60	269	14.2
Methylmercury (µg/kg)	30 to 60	NA	NA	45 to 75	NA	NA	30 to 60	NA	NA	30 to 60	NA	NA
Total PAHs (µg/kg)	30 to 60	18,714	3,208	45 to 75	3,092	3,092	30 to 60	NA	NA	30 to 60	40,700	6,363
Total PCBs (µg/kg)	30 to 60	NA	NA	45 to 75	15	15	30 to 60	NA	NA	30 to 60	NA	NA
Phenol (µg/kg)	30 to 60	NA	NA	45 to 75	ND	ND	30 to 60	NA	NA	30 to 60	NA	NA
Arsenic (mg/kg)	60 to 90	NA	NA	75 to 105	5.40	3.95	60 to 90	NA	NA	60 to 90	NA	NA
Benzo(a)pyrene (µg/kg)	60 to 90	1,500	285	75 to 105	200	200	60 to 90	NA	NA	60 to 90	1,800	696
Hexachlorobenzene (µg/kg)	60 to 90	870	256	75 to 105	2	2	60 to 90	NA	NA	60 to 90	93	93
Lead (mg/kg)	60 to 90	NA	NA	75 to 105	34.3	20.1	60 to 90	NA	NA	60 to 90	NA	NA
Mercury (mg/kg)	60 to 90	43.1	2.71	75 to 105	0.28	0.12	60 to 90	NA	NA	60 to 90	156	7.18
Methylmercury (µg/kg)	60 to 90	NA	NA	75 to 105	NA	NA	60 to 90	NA	NA	60 to 90	NA	NA
Total PAHs (µg/kg)	60 to 90	16,404	2,857	75 to 105	2,832	2,832	60 to 90	NA	NA	60 to 90	17,950	7,012
Total PCBs (µg/kg)	60 to 90	NA	NA	75 to 105	ND	ND	60 to 90	NA	NA	60 to 90	NA	NA
Phenol (µg/kg)	60 to 90	NA	NA	75 to 105	ND	ND	60 to 90	NA	NA	60 to 90	NA	NA

Notes:
 1. NA=Not analyzed
 2. ND=Not detected
 3. The floodplain data for Ninemile Creek upstream of the confluence with Geddes Brook and for Geddes Brook upstream of the West Flume were not included in these statistics because these floodplain areas are not within the site limits. These soil data can be found in the RI report, and statistics for upper Ninemile Creek and upper Geddes Brook are reported in Appendix I of the RI. The data from 2007 are reported in Appendix B of the Supplemental FS (Parsons, 2008a). The summary of the 2007 data provided by Parsons was revised by Earth Tech for NYSDEC.

Table 4 cont.

Parameter	2007 Geddes Brook			2007 Ninemile Creek OU-1		
	Depth Interval (cm)	Maximum Detection	Average Detection	Depth Interval (cm)	Maximum Detection	Average Detection
Arsenic (mg/kg)	0 to 30	13.1	9.81	0 to 30	12.3	6.94
Benzo(a)pyrene (µg/kg)	0 to 30	NA	NA	0 to 30	NA	NA
Hexachlorobenzene (µg/kg)	0 to 30	NA	NA	0 to 30	0.10	0.07
Lead (mg/kg)	0 to 30	NA	NA	0 to 30	NA	NA
Mercury (mg/kg)	0 to 30	36.0	5.72	0 to 30	12.0	2.07
Methylmercury (µg/kg)	0 to 30	NA	NA	0 to 30	NA	NA
Total PAHs (µg/kg)	0 to 30	NA	NA	0 to 30	20.3	5.02
Total PCBs (µg/kg)	0 to 30	NA	NA	0 to 30	NA	NA
Phenol (µg/kg)	0 to 30	NA	NA	0 to 30	NA	NA
Arsenic (mg/kg)	----	----	----	----	----	----
Benzo(a)pyrene (µg/kg)	----	----	----	----	----	----
Hexachlorobenzene (µg/kg)	----	----	----	----	----	----
Lead (mg/kg)	----	----	----	----	----	----
Mercury (mg/kg)	----	----	----	----	----	----
Methylmercury (µg/kg)	----	----	----	----	----	----
Total PAHs (µg/kg)	----	----	----	----	----	----
Total PCBs (µg/kg)	----	----	----	----	----	----
Phenol (µg/kg)	----	----	----	----	----	----
Arsenic (mg/kg)	30 to 60	17.4	6.99	30 to 60	11.1	5.91
Benzo(a)pyrene (µg/kg)	30 to 60	NA	NA	30 to 60	NA	NA
Hexachlorobenzene (µg/kg)	30 to 60	NA	NA	30 to 60	0.05	0.04
Lead (mg/kg)	30 to 60	NA	NA	30 to 60	NA	NA
Mercury (mg/kg)	30 to 60	14.7	3.94	30 to 60	3.60	0.69
Methylmercury (µg/kg)	30 to 60	NA	NA	30 to 60	NA	NA
Total PAHs (µg/kg)	30 to 60	NA	NA	30 to 60	8.25	2.83
Total PCBs (µg/kg)	30 to 60	NA	NA	30 to 60	NA	NA
Phenol (µg/kg)	30 to 60	NA	NA	30 to 60	NA	NA
Arsenic (mg/kg)	60 to 90	7.30	3.58	60 to 90	5.40	3.17
Benzo(a)pyrene (µg/kg)	60 to 90	NA	NA	60 to 90	NA	NA
Hexachlorobenzene (µg/kg)	60 to 90	NA	NA	60 to 90	0.01	0.01
Lead (mg/kg)	60 to 90	NA	NA	60 to 90	NA	NA
Mercury (mg/kg)	60 to 90	11.0	1.48	60 to 90	0.72	0.19
Methylmercury (µg/kg)	60 to 90	NA	NA	60 to 90	NA	NA
Total PAHs (µg/kg)	60 to 90	NA	NA	60 to 90	0.89	0.50
Total PCBs (µg/kg)	60 to 90	NA	NA	60 to 90	NA	NA
Phenol (µg/kg)	60 to 90	NA	NA	60 to 90	NA	NA