

Table 5-5. Summary of Assessment 1e: Analysis of Pore Water Quality Data^a

Chemical	Units	AWQC ^{b,c}	Fisherville Pond-North Pool	Fisherville Pond-Central Pool	Fisherville Pond-South Pool	Singing Pond-Main Channel	Singing Pond-Marsh Area	Lake Wildwood
Metals								
Arsenic	ug/L	150	4.20	1.02	1.14	1.83	1.03	1.19
Cadmium	ug/L	2.2	0.03	0.09	0.06	0.72	0.33	0.02
Chromium	ug/L	11	1.55	2.46	3.37	1.79	1.86	1.09
Copper	ug/L	9	1.45	2.14	2.90	9.42	1.27	1.14
Lead	ug/L	2.5	1.43	0.34	0.11	0.75	0.08	1.37
Mercury	ug/L	0.77	0.00	0.00	0.00	0.00	0.00	0.00
Nickel	ug/L	52	3.92	4.59	11.65	57.82	39.90	0.91
Silver	ug/L	3.4	ND	0.01	0.00	0.00	0.00	0.00
Tin	ug/L	--	0.07	0.16	0.16	0.12	0.03	0.08
Zinc	ug/L	120	5.55	5.88	3.79	31.27	41.80	4.43
PAHs								
Total PAHs	ug/L	1.686	0.64	<u>17.71</u>	<u>54.85</u>	<u>35.45</u>	<u>77</u>	0.64
Pesticides/PCBs								
Aldrin	ug/L	--	ND	ND	ND	ND	NA	ND
Total Chlordane	ug/L	0.0003	0.00001	0.0002	0.0004	0.0002	0.0004	0.0001
trans-Nonachlor	ug/L	--	NA	NA	NA	NA	NA	NA
Dieldrin	ug/L	0.0013	0.00004	0.0025	<i>0.0120</i>	0.0021	<u>0.0149</u>	0.0001
Heptachlor	ug/L	--	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ug/L	0.0010	ND	ND	ND	0.001	0.0001	ND
Hexachlorobenzene ^d	ug/L	0.0005	0.00002	0.00008	0.00008	0.00015	0.00002	0.00002
Lindane	ug/L	0.0335	ND	ND	ND	ND	0.00243814	ND
Mirex ^d	ug/L	0.0001	ND	0.00002	0.00002	0.00001	NA	ND
Endrin	ug/L	0.0061	ND	ND	ND	ND	ND	ND
4,4'-DDE ^d	ug/L	0.00003	0.00001	<i>0.00030</i>	<i>0.00025</i>	0.00005	<u>0.00052</u>	0.00002
4,4'-DDD ^d	ug/L	0.0003	0.00004	0.0010	0.0008	0.0003	0.00089	0.0001
4,4'-DDT ^d	ug/L	0.0003	0.00004	0.00015	0.00022	0.00017	0.00013	0.00002
Total PCB	ug/L	0.0140	0.00016	0.00706	0.01531	0.00458	0.03620	0.00016
SCORE			Low	High	High	High	High	Low

BOLD indicates that the measured or estimated concentration exceeds the WQC

ITALICS indicates that measured or estimated concentration is at least 5 times higher than the WQC

UNDERLINE indicates that the measured or estimated concentration is at least 10 times higher than the WQC.

ND = Not detected; Porewater was not calculated if the analyte was not detected in the sediment sample.

NA = Not applicable; Porewater concentration was not calculated if an appropriate Kow could not be found for the analyte.

a. Full results presented in the Final Data Report (Battelle, 2000) and in Appendix E.

b. Metal and Total PCB AWQC were derived from EPA water quality criteria (EPA, 1999).

c. PAH and Pesticide AWQC were calculated based on the PEC. See Section 3.2.1 or Appendix E for discussion.

d. AWQC values based on sediment guidelines reported by Jaagumagi et al. 1995