

**APPENDIX B**  
**PHYSICAL AND CHEMICAL ANALYSIS RESULTS OF SEDIMENT**  
**SAMPLES**



**TABLE B-1 ANALYTICAL RESULTS AND SCREENING CRITERIA FOR PARAMETERS DETECTED IN SEDIMENTS**

Sample ID	SED 1	SED 2	SED 3	SED 4	SED DUP 1	Screening Criteria												
Collection Date	6/3/2003			6/3/2003			6/3/2003			6/3/2003		TotSoilComb <sup>1</sup>	TotSedComb <sup>2</sup>					
Parameter	Units <sup>1</sup>	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	TotSoilComb <sup>1</sup>	TotSedComb <sup>2</sup>
<b>Metals</b>																		
Arsenic	mg/kg-drywt	2.95		0.20	2.33		0.17	3.17		0.20	2.24		0.18	2.27		0.16	2.42E+01	1.10E+02
Beryllium	mg/kg-drywt	0.31		0.20	0.20		0.17	0.36		0.20	0.20		0.18	0.22		0.16	3.76E+01	2.70E+01
Cadmium	mg/kg-drywt	0.10	U	0.10	0.08	J	0.10	0.14		0.10	0.06	J	0.10	0.09	J	0.10	5.17E+01	1.10E+03
Chromium (total)	mg/kg-drywt	3.96		0.59	3.20		0.50	4.81		0.61	2.96		0.55	3.33		0.49	2.31E+04	3.60E+04
Chromium (3+)	mg/kg-drywt	3.96		0.59	3.20		0.50	4.81		0.61	2.96		0.55	3.33		0.49	2.31E+04	3.60E+04
Copper	mg/kg-drywt	3.39		0.78	1.71		0.67	4.19		0.81	1.78		0.74	1.72		0.65	5.48E+02	2.10E+04
Lead	mg/kg-drywt	6.80		0.30	4.73		0.25	7.97		0.30	4.98		0.27	4.92		0.25	5.00E+02	5.00E+02
Nickel	mg/kg-drywt	4.48		0.39	3.30		0.34	5.28		0.41	3.03		0.37	3.35		0.32	8.41E+02	1.40E+03
Thallium	mg/kg-drywt	0.18	J	0.20	0.57	J	0.17	0.42		0.20	0.25		0.18	0.17		0.16	6.31E+00	4.30E+01
Zinc	mg/kg-drywt	7.03		0.78	5.53		0.67	8.05		0.81	6.19		0.74	4.87		0.65	9.92E+03	7.60E+04
<b>Semi-Volatiles</b>																		
Naphthalene	ug/kg-drywt	9.45		3.90	2.82	J	3.36	3.16	J	4.05	3.69	U	3.69	3.24	U	3.24	1.24E+05	2.50E+06
Di-n-octylphthalate	ug/kg-drywt	11.7	U	11.7	10.1	U	10.1	12.2	U	12.2	11.1	U	11.1	12.7		9.72	1.29E+06	3.10E+06
<b>Miscellaneous Parameters</b>																		
Ammonia (as N)	mg/kg-drywt	15.3		0.10	14.0		0.10	43.7		0.10	37.9		0.10	8.25		0.10	7.90E+02	--
Total Organic Carbon (TOC)	%	0.79		0.13	0.57		0.11	1.19		0.14	0.62		0.12	0.57		0.10		
% Solids	percent	77.2			89.1			74.3			81.1			92.8				
<b>Grain Size</b>																		
Gravel	percent	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0		
Sand	percent	66.5		0.0	86.5		0.0	64.0		0.0	66.0		0.0	87.8		0.0		
Silt	percent	21.9		0.0	10.9		0.0	21.8		0.0	27.1		0.0	7.3		0.0		
Clay	percent	11.6		0.0	2.6		0.0	14.2		0.0	6.9		0.0	4.9		0.0		

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

U - The material was analyzed for, but was not detected above the practical sample quantitation limit.

J - The associated value is an estimated quantity

PQL - Practical Quantitation Limit

<sup>1</sup> TCEQ Teir 1 Residential Soil (30-acre source)PCL. Units are same as analytical data.

<sup>2</sup> TCEQ Teir 1 Sediment PCL for direct human contact. Units are same as analytical data.

drywt - based on dry weight of sample

**TABLE B-2 ANALYTICAL RESULTS AND SCREENING CRITERIA FOR PARAMETERS DETECTED IN ELUTRIATE**

Sample ID Collection Date	SED 1 6/3/2003			SED 2 6/3/2003			SED 3 6/3/2003			SED 4 6/3/2003			SED DUP 1 6/3/2003			Screening Criteria <sup>1</sup> Aquatic Life <sup>SW</sup> RBEL			
	Parameter	Units	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	Result	Flag	PQL	ug/L	Basis
<b>Metals</b>																			
Arsenic	ug/L	2.06		1.00	4.04		1.00	3.29		1.00	3.51		1.00	3.70		1.00	360	acute	
Copper	ug/L	1.13		1.00	2.13		1.00	3.92		1.00	1.05		1.00	3.31		1.00	9.6	acute	
Nickel	ug/L	2.60		1.00	5.28	J	1.00	3.63		1.00	2.88		1.00	12.0	J	1.00	787.4	acute	
Zinc	ug/L	0.56	J	1.00	2.90	J	1.00	3.02		1.00	0.60	J	1.00	11.3	J	1.00	63.6	acute	
<b>Miscellaneous Parameters</b>																			
Ammonia (as N)	mg/L	0.25		0.03	0.27		0.03	0.28		0.03	0.22		0.03	0.24		0.03	--	--	
Total Organic Carbon (TOC)	mg/L	4.00		0.50	5.20	J	0.50	6.10		0.50	9.10		0.50	9.30	J	0.50	--	--	

ug/L - micrograms per liter

mg/L - milligrams per liter

U - The material was analyzed for, but was not detected above the practical sample quantitation limit.

J - The associated value is an estimated quantity

PQL - Practical Quantitation Limit

<sup>1</sup> Screening criteria are TCEQ RBELs for aquatic life in fresh water. Acute RBELs were used since the potential impact will be temporary.