

LABORATORY ANALYTICAL RESULTS FOR SEDIMENT SAMPLES

Sample Designation:	Region IX	TT-SS01
Sample Collection Date:	Preliminary	12/23/2008
Field Quality Control:	Remediation Goals	
Percent Moisture (percent)		
Percent Moisture	NL	27.7
BTEX (µg/kg, dry weight)		
Benzene	640	1.3 U
Ethylbenzene	400000	1.3 U
m,p-Xylenes	270	1.3 U
o-Xylene	270	1.3 U
Toluene	520000	1.3 U
Total Metals (mg/kg, dry weight)		
Aluminum	76000	26400
Antimony	31	1.27 J
Arsenic	0.39	44.8
Barium	5400	864
Beryllium	150	6.25
Cadmium	37	0.577 J
Calcium	NL	18300
Chromium	210	41.3
Cobalt	900	17.7
Copper	3100	59.9
Iron	23000	12000
Lead	400	20.3
Magnesium	NL	3900
Manganese	1800	66.9
Mercury	23	0.0879 J
Nickel	1600	29.4
Potassium	NL	3280
Selenium	390	3.13 J
Silver	390	2.81 U
Sodium	NL	672
Thallium	5.2	4.36 J
Vanadium	78	107
Zinc	23000	55.6

Notes:

Positive results are listed in **BOLD**.

Highlighted results exceeded the Region IX Preliminary Remediation Goals

NL = Not listed

BTEX = Benzene, toluene, ethylbenzene, and xylenes

mg/kg = Milligrams per kilogram

µg/kg = Micrograms per kilogram

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

LABORATORY ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES

Sample Designation:	Maximum	KIF-KWTPI	KIF-CRM 4.0	KIF-ERM 0.1	KIF-CRM 5.5	KIF-ERM 2.1
Sample Collection Date:	Contaminant	12/23/2008	12/23/2008	12/23/2008	12/23/2008	12/23/2008
Field Quality Control:	Levels					
Total Suspended Solids (mg/L)						
Total Suspended Solids	NL	NA	NA	14700	NA	NA
Dissolved Metals (mg/L)						
Aluminum	NL	NA	NA	0.164 J	NA	NA
Antimony	0.006	NA	NA	0.02 U	NA	NA
Arsenic	0.01	NA	NA	0.0116 J	NA	NA
Barium	2	NA	NA	0.0345	NA	NA
Beryllium	0.004	NA	NA	0.01 U	NA	NA
Cadmium	0.005	NA	NA	0.005 U	NA	NA
Calcium	NL	NA	NA	9.38	NA	NA
Chromium	0.1	NA	NA	0.01 U	NA	NA
Cobalt	NL	NA	NA	0.02 U	NA	NA
Copper	1.3	NA	NA	0.00170 J	NA	NA
Iron	NL	NA	NA	0.187	NA	NA
Lead	0.015	NA	NA	0.01 U	NA	NA
Magnesium	NL	NA	NA	2.20	NA	NA
Manganese	NL	NA	NA	0.153	NA	NA
Mercury	0.002	NA	NA	0.0002 U	NA	NA
Nickel	NL	NA	NA	0.02 U	NA	NA
Potassium	NL	NA	NA	1.28	NA	NA
Selenium	0.05	NA	NA	0.00749 J	NA	NA
Silver	NL	NA	NA	0.01 U	NA	NA
Sodium	NL	NA	NA	5.65	NA	NA
Thallium	0.002	NA	NA	0.00774 J	NA	NA
Vanadium	NL	NA	NA	0.00341 J	NA	NA
Zinc	NL	NA	NA	0.00772 J	NA	NA
Total Metals (mg/L)						
Aluminum	NL	0.388	1.53	121	0.986	1.13
Antimony	0.006	0.02 U	0.02 U	0.00655 J	0.02 U	0.02 U
Arsenic	0.01	0.05 U	0.00392 J	1.49	0.00501 J	0.05 U
Barium	2	0.0234	0.0430	1.47	0.0385	0.0405
Beryllium	0.004	0.01 U	0.01 U	0.0119	0.01 U	0.01 U
Cadmium	0.005	0.005 U	0.005 U	0.0155	0.005 U	0.005 U
Calcium	NL	16.1	30.8	38.2	35.0	8.04
Chromium	0.1	0.01 U	0.01 U	0.127	0.01 U	0.01 U
Cobalt	NL	0.02 U	0.02 U	0.0768	0.02 U	0.02 U
Copper	1.3	0.01 U	0.01 U	0.225	0.01 U	0.01 U
Iron	NL	0.386	1.08	67.0	0.733	0.660
Lead	0.015	0.01 U	0.00461 J	0.0754	0.01 U	0.01 U
Magnesium	NL	4.16	8.51	12.4	9.94	2.14
Manganese	NL	0.0487	0.0938	1.89	0.0453	0.0738
Mercury	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	NL	0.02 U	0.02 U	0.103	0.02 U	0.02 U
Potassium	NL	1.95	2.44	32.1	2.45	1.52
Selenium	0.05	0.02 U	0.02 U	0.0180 J	0.02 U	0.02 U
Silver	NL	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	NL	8.77	5.85	4.85	6.83	2.56
Thallium	0.002	0.00619 J	0.02 U	0.02 U	0.00430 J	0.02 U
Vanadium	NL	0.01 U	0.00243 J	0.465	0.01 U	0.00255 J
Zinc	NL	0.02 U	0.00404 J	0.266	0.02 U	0.00461 J

Notes:

Positive results are listed in **BOLD**.

Highlighted results exceeded the federal Maximum Contaminant Level.

NL = Not listed

mg/L = Milligrams per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

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LABORATORY ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES

Sample Designation:	Maximum	KIF-ERM 4.0	TT-ERM 1.9	DUPLICATE	KIF-TRM568.5	KIF-CRM 0.0
Sample Collection Date:	Contaminant	12/23/2008	12/23/2008	12/23/2008	12/23/2008	12/23/2008
Field Quality Control:	Levels			Field Duplicate		
Total Suspended Solids (mg/L)						
Total Suspended Solids	NL	NA	NA	NA	10.5	14.5
Dissolved Metals (mg/L)						
Aluminum	NL	NA	NA	NA	0.2 U	0.0268 J
Antimony	0.006	NA	NA	NA	0.02 U	0.02 U
Arsenic	0.01	NA	NA	NA	0.05 U	0.05 U
Barium	2	NA	NA	NA	0.0176 J	0.0189 J
Beryllium	0.004	NA	NA	NA	0.01 U	0.01 U
Cadmium	0.005	NA	NA	NA	0.005 U	0.005 U
Calcium	NL	NA	NA	NA	13.8	14.8
Chromium	0.1	NA	NA	NA	0.01 U	0.01 U
Cobalt	NL	NA	NA	NA	0.02 U	0.02 U
Copper	1.3	NA	NA	NA	0.01 U	0.01 U
Iron	NL	NA	NA	NA	0.1 U	0.1 U
Lead	0.015	NA	NA	NA	0.01 U	0.01 U
Magnesium	NL	NA	NA	NA	3.52	3.80
Manganese	NL	NA	NA	NA	0.00464 J	0.00944 J
Mercury	0.002	NA	NA	NA	0.0002 U	0.0002 U
Nickel	NL	NA	NA	NA	0.02 U	0.02 U
Potassium	NL	NA	NA	NA	1.57	1.78
Selenium	0.05	NA	NA	NA	0.02 U	0.02 U
Silver	NL	NA	NA	NA	0.01 U	0.01 U
Sodium	NL	NA	NA	NA	7.48	8.04
Thallium	0.002	NA	NA	NA	0.02 U	0.00463 J
Vanadium	NL	NA	NA	NA	0.01 U	0.01 U
Zinc	NL	NA	NA	NA	0.02 U	0.02 U
Total Metals (mg/L)						
Aluminum	NL	0.338	2.20	2.58	0.291	0.265
Antimony	0.006	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.01	0.05 U	0.0208 J	0.0337 J	0.05 U	0.00351 J
Barium	2	0.0304	0.0565	0.0643	0.0218	0.0215
Beryllium	0.004	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cadmium	0.005	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium	NL	7.81	9.11	9.26	16.2	15.9
Chromium	0.1	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	NL	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Copper	1.3	0.01 U	0.00406 J	0.00508 J	0.01 U	0.01 U
Iron	NL	0.262	1.37	1.77	0.255	0.234
Lead	0.015	0.01 U	0.00625 J	0.00492 J	0.01 U	0.01 U
Magnesium	NL	1.78	2.20	2.27	4.17	4.09
Manganese	NL	0.0368	0.0898	0.0970	0.0288	0.0248
Mercury	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	NL	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Potassium	NL	1.35	1.71	1.80	1.97	1.92
Selenium	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Silver	NL	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	NL	2.53	2.63	2.68	8.90	8.67
Thallium	0.002	0.00413 J	0.02 U	0.02 U	0.02 U	0.02 U
Vanadium	NL	0.01 U	0.00741 J	0.0108	0.01 U	0.01 U
Zinc	NL	0.02 U	0.0371	0.0350	0.02 U	0.02 U

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LABORATORY ANALYTICAL RESULTS FOR SURFACE WATER SAMPLES

Sample Designation:	Maximum	KIF-CRM 2.0
Sample Collection Date:	Contaminant	12/23/2008
Field Quality Control:	Levels	
Total Suspended Solids (mg/L)		
Total Suspended Solids	NL	79.5
Dissolved Metals (mg/L)		
Aluminum	NL	0.0302 J
Antimony	0.006	0.02 U
Arsenic	0.01	0.05 U
Barium	2	0.0311
Beryllium	0.004	0.01 U
Cadmium	0.005	0.005 U
Calcium	NL	22.9
Chromium	0.1	0.01 U
Cobalt	NL	0.02 U
Copper	1.3	0.01 U
Iron	NL	0.0481 J
Lead	0.015	0.01 U
Magnesium	NL	6.30
Manganese	NL	0.0149 J
Mercury	0.002	0.0002 U
Nickel	NL	0.02 U
Potassium	NL	1.58
Selenium	0.05	0.02 U
Silver	NL	0.01 U
Sodium	NL	4.50
Thallium	0.002	0.02 U
Vanadium	NL	0.01 U
Zinc	NL	0.02 U
Total Metals (mg/L)		
Aluminum	NL	0.905
Antimony	0.006	0.02 U
Arsenic	0.01	0.00310 J
Barium	2	0.0436
Beryllium	0.004	0.01 U
Cadmium	0.005	0.005 U
Calcium	NL	27.3
Chromium	0.1	0.01 U
Cobalt	NL	0.02 U
Copper	1.3	0.01 U
Iron	NL	0.607
Lead	0.015	0.01 U
Magnesium	NL	7.57
Manganese	NL	0.0512
Mercury	0.002	0.0002 U
Nickel	NL	0.02 U
Potassium	NL	2.14
Selenium	0.05	0.02 U
Silver	NL	0.01 U
Sodium	NL	5.43
Thallium	0.002	0.02 U
Vanadium	NL	0.00237 J
Zinc	NL	0.02 U