

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_B	CR_B	CR_B	CR_B	CR_B	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM3.5	CRM3.5	CRM3.5	CRM3.5	CRM3.5
		Sample Date	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	HYP-EPI-Max	MID
		Unique Sample ID	KIF-CRM2.0-SW-083110	KIF-CRM2.0-SW-090810	KIF-CRM2.0-SW-091410	KIF-CRM2.0-SW-092110	KIF-CRM2.0-SW-092910	KIF-CRM2.0-SW-100510	KIF-CRM2.0-SW-101210	KIF-CRM2.0-SW-101910	KIF-CRM3.5-SW-083110	KIF-CRM3.5-SW-090810	KIF-CRM3.5-SW-091410	KIF-CRM3.5-SW-092110-HYP-EPI-Max	KIF-CRM3.5-SW-092910	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.142	< 0.05	< 0.05	< 0.05
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0338	0.0358	0.0353	0.0355	0.0377	0.0413	0.0416	0.0378	0.034	0.0358	0.0363	0.0386	0.0382
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0177	0.0189	0.0191	0.0174	0.0184	0.0198	0.0265	0.0172	0.0141	0.0156	0.0197	0.0222	0.0205
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	37	36.5	36.6	36.8	37.1	38.6	38.8	38.9	37.8	37	37.5	38.5	38.2
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.129	< 0.025	< 0.025	< 0.025
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	10.7	10.6	10.5	10.6	10.5	10.9	11.2	11.4	10.8	10.8	10.6	11.2	10.9
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.54	1.5	1.49	1.51	1.46	1.57	1.56	1.52	1.55	1.55	1.59	1.55	1.51
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.28	6.52	6.54	6.45	6.35	6.89	7.01	6.76	6.33	6.66	6.7	6.7	6.55
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.107	0.113	0.109	0.109	0.106	0.12	0.123	0.114	0.108	0.114	0.111	0.111	0.11
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00056	0.0008	0.0008	0.00097	0.00096	0.00136	0.00076	0.00056	0.00047	0.00065	0.0008	0.00158	0.0009
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00265	0.00102	0.00082	< 0.00068	0.00077	0.00111	0.00122	0.00068	0.00237	0.00101	0.0007	< 0.00051	0.00075
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00893	< 0.00256	0.00078	0.00473	0.00077	0.00056	0.00037	0.00152	0.00772	0.00423	0.00154	0.00061	0.00047
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00071	0.00072	0.00076	0.00065	0.0009	0.00093	0.00111	0.0009	0.00058	0.00048	0.00081	0.00102	0.00091
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	< 0.00055	< 0.00033	0.00035	< 0.00033	< 0.00033	0.00039	< 0.00033	0.00038	< 0.00049	0.00042	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	0.00035	< 0.00033	< 0.00033	< 0.00033	0.00035	0.0004	0.0007	< 0.00033	< 0.00033	< 0.00033	0.00037	0.00036	0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.00106	0.00151	0.00141	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.00102
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	0.0021	--	--	--	--	--	--	--	0.0021	--
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.115	0.214	0.116	0.0656	0.12	0.153	< 0.135	0.112	0.0861	0.139	0.104	0.083	0.116
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0356	0.0384	0.0371	0.0379	0.0404	0.0432	0.0442	0.0392	0.0352	0.036	0.0376	0.0415	0.0395
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0149	0.0157	0.0207	0.019	0.0174	0.0217	0.0267	0.0208	< 0.0125	0.0142	0.0171	0.024	0.0163
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	37.1	36.9	37.5	37.8	38	38.7	38.1	39.6	38.2	37.3	37.4	38.7	38
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.11	0.15	0.102	0.0678	0.0877	0.11	0.0811	0.0932	0.0931	0.133	0.112	0.0696	0.0868
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.7	10.8	10.8	11	10.8	11.1	11	11.7	10.9	11	10.7	11.2	10.8
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.56	1.55	1.59	1.55	1.56	1.61	1.58	1.56	1.59	1.52	1.58	1.6	1.54
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.28	6.45	6.72	6.59	6.69	6.96	6.97	6.96	6.32	6.62	6.64	6.76	6.49
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.108	0.113	0.112	0.111	0.113	0.122	0.123	0.119	0.109	0.113	0.112	0.112	0.11
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00084	0.00103	0.00092	0.0011	0.00111	0.00132	0.00153	0.00087	0.00054	0.00063	0.00098	0.00195	0.00107
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00046	0.00036	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00092	0.00165	0.00118	0.00111	0.00127	0.00175	0.00195	0.00102	0.00256	0.00097	0.00112	0.00198	0.00121
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	0.00037	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0326	0.032	0.0281	0.0269	0.0284	0.0324	0.0286	0.025	0.0301	0.0318	0.032	0.0285	0.0295
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00055	0.00053	0.0007	0.00068	0.00091	0.00087	0.00104	0.00088	0.00056	0.00099	0.00083	0.00104	0.00087

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Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_B	CR_B	CR_B	CR_B	CR_B	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM3.5	CRM3.5	CRM3.5	CRM3.5	CRM3.5
		Sample Date	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID
		Unique Sample ID	KIF-CRM2.0-SW-083110	KIF-CRM2.0-SW-090810	KIF-CRM2.0-SW-091410	KIF-CRM2.0-SW-092110	KIF-CRM2.0-SW-092910	KIF-CRM2.0-SW-100510	KIF-CRM2.0-SW-101210	KIF-CRM2.0-SW-101910	KIF-CRM3.5-SW-083110	KIF-CRM3.5-SW-090810	KIF-CRM3.5-SW-091410	KIF-CRM3.5-SW-092110-HYP-EPI-Max	KIF-CRM3.5-SW-092910	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00076	< 0.00033	0.00043	0.00035	0.00047	0.00062	0.0005	0.00043	0.00057	< 0.00033	0.00049	0.00059	0.00049
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	0.00038	< 0.00033	< 0.00033	< 0.00033	0.00036	< 0.00033	0.00076	< 0.00033	< 0.00033	< 0.00033	0.00036	0.00035	0.00034
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00112	0.00115	0.00118	0.0013	0.00146	0.00197	0.00187	0.00102	< 0.001	< 0.001	0.00126	0.00221	0.00141
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	0.000229	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	137	136	138	140	140	142	141	147	140	139	138	143	139
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	171	148	157	162	164	168	166	190	164	153	161	165	158
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	6.1	6.7	4.6	4.6	3.9	7.2	5.5	5.6	4.8	4.8	6.5	6.2	4.8
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.79	1.71	1.96	< 2.03	1.82	1.82	1.77	1.59	1.72	< 1.9	1.84	< 2.15	1.84
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	< 13.9	< 12.1	--	--	--	--	--	--	< 15.6	< 13.2
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	< 23.7	< 24.4	--	--	--	--	--	--	< 25.4	< 19.9
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	< 8.22	< 11.4	--	--	--	--	--	--	< 7.34	< 15.3
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	< 3.17	< 3.73	--	--	--	--	--	--	< 3.35	< 3.39
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	< 3.34	< 3.47	--	--	--	--	--	--	< 3.75	< 3.26
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	< 8.38	< 6.2	--	--	--	--	--	--	< 7.01	< 7.15
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	< 8.58	< 9.92	--	--	--	--	--	--	< 10	< 8.81
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	< 53.8	< 40.6	--	--	--	--	--	--	< 49.7	< 40.5
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	< 4.26	< 3.72	--	--	--	--	--	--	< 4.76	< 3.39
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	< 207	< 208	--	--	--	--	--	--	< 241	< 179
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	< 0.61	< 0.416	--	--	--	--	--	--	0.408	0.499
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	< 0.906	< 0.783	--	--	--	--	--	--	< 0.486	< 0.871
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	< 0.0738	< 0.141	--	--	--	--	--	--	< 0.111	< 0.11
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	< 0.0459	< 0.0962	--	--	--	--	--	--	< 0.0414	< 0.0594
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	< 0.0732	< 0.06	--	--	--	--	--	--	< 0.0413	< 0.0592
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	0.155	< 0.264	--	--	--	--	--	--	0.156	< 0.24
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	< 0.0846	< 0.149	--	--	--	--	--	--	< 0.17	< 0.257
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	< 0.109	< 0.192	--	--	--	--	--	--	0.172	< 0.208
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	--	0.000654	0.000296	--	--	--	--	--	--
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	--	0.00024	0.000113	--	--	--	--	--	--
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.000894	0.000409	--	--	--	--	--	--
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.000562	0.000382	--	--	--	--	--	--
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	0.00146	0.000791	--	--	--	--	--	--
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	0.000961	0.000523	--	--	--	--	--	--
Speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	--	0.000399	0.000169	--	--	--	--	--	--
Speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	--	0.000399	< 0.000285	--	--	--	--	--	--
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	--	0.000562	< 0.000388	--	--	--	--	--	--

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit	CR_B	CR_B	CR_B	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	ER_A	ER_A	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	
		Location	CRM3.5	CRM3.5	CRM3.5	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	ERM0.3	ERM0.3
		Sample Date	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	
		Unique Sample ID	KIF-CRM3.5-SW-100510	KIF-CRM3.5-SW-101210	KIF-CRM3.5-SW-101910	KIF-CRM6.0-SW-083110	KIF-CRM6.0-SW-090810	KIF-CRM6.0-SW-091410	KIF-CRM6.0-SW-092110	KIF-CRM6.0-SW-092910	KIF-CRM6.0-SW-100510	KIF-CRM6.0-SW-101210	KIF-CRM6.0-SW-101910	KIF-ERM0.3-SW-083110	KIF-ERM0.3-SW-090810	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.038	0.0374	0.0374	0.0327	0.0328	0.0348	0.035	0.0359	0.0347	0.0344	0.0357	0.0341	0.0332
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0132	0.021	0.0183	0.0142	0.0154	0.0166	0.0137	0.0171	0.0155	0.0183	0.0177	0.0131	0.0173
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	38.2	38.7	39.5	36.5	37.3	38.6	38.8	38.7	38.1	38	39	38.1	36.9
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.0777	< 0.025	< 0.025	< 0.025
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	11	11.3	11.5	10.6	10.9	10.9	11.1	10.9	11.2	11.1	11.3	10.6	11
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.51	1.53	1.54	1.51	1.52	1.57	1.51	1.46	1.54	1.52	1.51	1.54	1.5
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.68	7.03	6.81	6.24	6.66	6.94	6.46	6.36	6.83	6.96	6.72	6.29	6.57
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.115	0.119	0.115	0.106	0.113	0.112	0.11	0.106	0.113	0.114	0.111	0.106	0.112
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00063	0.0007	0.00058	0.0005	< 0.00033	0.00043	0.00052	0.00051	0.00045	< 0.00033	0.00033	0.00051	0.00049
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00086	0.00061	0.00058	< 0.00086	0.00033	0.00069	< 0.00054	0.00047	0.00045	0.00047	0.00036	0.00051	0.00073
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00219	0.00228	0.00307	0.00618	0.00505	0.00586	0.00068	0.00263	0.00625	0.00491	0.00517	0.00746	0.00448
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00065	0.00081	0.00081	0.0007	0.00048	0.00082	0.00046	0.00072	0.00061	0.00079	0.00071	< 0.00068	0.00053
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00035	< 0.00033	0.00034	< 0.00065	< 0.00033	0.00052	< 0.00033	< 0.00033	0.00034	< 0.00033	0.00036	0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00036	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	0.00111	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	0.002	--	--	--	--	--	--
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.0002	< 0.00015	< 0.00015
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.139	< 0.144	0.0794	0.074	0.0764	0.0967	0.0751	0.107	0.0828	< 0.1	0.0618	0.0818	0.0972
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0395	0.0386	0.037	0.0341	0.0339	0.0357	0.035	0.0375	0.0356	0.0353	0.0361	0.0353	0.0344
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0177	0.0176	0.0189	0.0148	0.0131	0.0132	0.0153	0.0169	0.0136	0.0192	0.0176	0.0143	0.0158
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	37.8	37.8	38.5	37.4	37.7	38.2	38.2	38.8	38.4	38.1	39.6	38.3	37.2
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.126	0.119	0.0917	0.0787	0.0982	0.126	0.077	0.105	0.0863	0.086	0.0795	0.0948	0.0914
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.9	11.1	11.5	10.9	11.1	11	11	11	11.2	11.3	11.7	10.8	11.1
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.56	1.55	1.53	1.57	1.52	1.58	1.53	1.53	1.58	1.52	1.52	1.59	1.49
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.74	6.82	6.87	6.32	6.63	6.87	6.38	6.46	6.94	6.8	6.95	6.5	6.5
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.116	0.116	0.115	0.108	0.112	0.113	0.109	0.108	0.116	0.113	0.115	0.109	0.111
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00077	0.00056	0.00061	0.00055	0.00038	0.0005	0.00061	0.00058	0.00039	0.00036	0.0005	0.00059	0.00053
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00035	< 0.00033	0.00051	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00111	0.00101	0.00077	0.00075	0.00044	0.00158	0.0006	0.00076	0.0007	0.00051	0.00046	0.00058	0.00081
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00034	< 0.00033	< 0.0004	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0367	0.0391	0.0259	0.0278	0.027	0.0316	0.033	0.0351	0.0279	0.0288	0.0245	0.0304	0.0268
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.0006	0.00086	0.00076	0.0008	0.0004	0.00094	0.00035	0.00065	0.00055	0.00081	0.00067	< 0.00077	0.00069

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	Unit	CR_B	CR_B	CR_B	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	ER_A	ER_A	
		Year		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location		CRM3.5	CRM3.5	CRM3.5	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	ERM0.3	ERM0.3
		Sample Date		10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	
		Depth Interval		MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	
		Unique Sample ID		KIF-CRM3.5-SW-100510	KIF-CRM3.5-SW-101210	KIF-CRM3.5-SW-101910	KIF-CRM6.0-SW-083110	KIF-CRM6.0-SW-090810	KIF-CRM6.0-SW-091410	KIF-CRM6.0-SW-092110	KIF-CRM6.0-SW-092910	KIF-CRM6.0-SW-100510	KIF-CRM6.0-SW-101210	KIF-CRM6.0-SW-101910	KIF-ERM0.3-SW-083110	KIF-ERM0.3-SW-090810	
Group	Analytical Method	Analyte Name	Units														
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00053	0.0005	0.00042	0.00065	< 0.00033	0.00033	< 0.00033	0.00046	0.00051	0.00051	0.00042	0.00057	0.00038	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	0.00038	< 0.00033	0.00043	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00125	0.00107	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	139	140	143	138	140	141	141	142	142	142	147	140	138	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	166	159	183	167	156	155	155	168	166	160	179	170	166	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	6	8	5.8	3.6	3.5	5.3	4.3	5.7	3.4	4.3	4.2	4.6	4.3	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.69	1.73	1.48	1.78	< 1.74	1.59	1.68	1.79	1.69	1.68	1.5	1.61	1.76	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	--	--	< 14.5	< 16	--	--	--	--	--	
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	--	--	< 22.2	< 12	--	--	--	--	--	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	--	--	< 8.42	< 8.75	--	--	--	--	--	
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	--	--	< 3.6	< 3.27	--	--	--	--	--	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	--	--	< 3.68	< 3.49	--	--	--	--	--	
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	--	--	< 8.29	< 7.28	--	--	--	--	--	
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	--	--	< 9.1	< 8.24	--	--	--	--	--	
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	--	--	< 48.8	< 43.1	--	--	--	--	--	
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	--	--	< 4.15	< 3.66	--	--	--	--	--	
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	--	--	< 222	< 120	--	--	--	--	--	
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	--	--	< 0.465	< 0.496	--	--	--	--	--	
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	--	--	< 0.54	< 0.929	--	--	--	--	--	
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	--	--	< 0.0925	< 0.124	--	--	--	--	--	
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	--	--	< 0.0723	< 0.0671	--	--	--	--	--	
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	--	--	< 0.0918	< 0.0669	--	--	--	--	--	
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	--	--	0.24	0.268	--	--	--	--	--	
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	--	--	< 0.153	< 0.256	--	--	--	--	--	
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	--	--	0.129	< 0.264	--	--	--	--	--	
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	0.000333	0.000311	--	--	--	--	--	--	0.000291	0.000249	--	--	
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	0.000141	0.000089	--	--	--	--	--	--	0.000054	0.000055	--	--	
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	0.000474	0.0004	--	--	--	--	--	--	0.000345	0.000303	--	--	
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	0.000367	0.000289	--	--	--	--	--	--	0.000172	0.000283	--	--	
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	0.000841	0.000689	--	--	--	--	--	--	0.000518	0.000514	--	--	
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	0.000752	0.000494	--	--	--	--	--	--	0.00041	0.000457	--	--	
Speciation	FGS-129	Selenate, Dissolved	mg/L	--	0.000246	< 0.000157	--	--	--	--	--	--	< 0.000157	< 0.000157	--	--	
Speciation	FGS-129	Selenite, Dissolved	mg/L	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	0.000506	0.000494	--	--	--	--	--	--	0.00041	0.000457	--	--	

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0
		Sample Date	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010		
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	HYP-EPI-Max	MID	MID	MID	MID	MID	MID
Unique Sample ID		KIF-ERM0.3-SW-091410	KIF-ERM0.3-SW-092210	KIF-ERM0.3-SW-092810	KIF-ERM0.3-SW-100510	KIF-ERM0.3-SW-101210	KIF-ERM0.3-SW-101910	KIF-ERM1.0-SW-083110	KIF-ERM1.0-SW-090810-HYP-EPI-Max	KIF-ERM1.0-SW-091410	KIF-ERM1.0-SW-092210	KIF-ERM1.0-SW-092810	KIF-ERM1.0-SW-100510	KIF-ERM1.0-SW-101210			
Group	Analytical Method	Analyte Name	Units														
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0351	0.0332	0.0354	0.0431	0.0355	0.0374	0.035	0.0384	0.0418	0.0418	0.0428	0.0443	0.0411	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0177	0.0134	0.0181	0.0225	0.0209	0.0217	0.0153	0.0202	0.026	0.0236	0.0241	0.0236	0.0274	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	37.4	37.6	37.4	38.1	37.6	39.6	38.4	37.8	36.9	36.8	35	37.7	39	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	10.7	10.6	10.8	10.8	10.9	11.7	10.8	11.1	10.5	10.3	9.79	10.7	11.3	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.53	1.47	1.56	1.55	1.5	1.54	1.58	1.52	1.55	1.57	1.57	1.59	1.58	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.71	6.38	6.52	6.76	6.79	6.94	6.5	6.8	6.65	6.59	6.83	6.82	7.12	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.112	0.108	0.11	0.119	0.113	0.117	0.109	0.116	0.118	0.116	0.115	0.121	0.124	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00071	0.00047	0.00083	0.00154	0.00062	0.0005	0.0006	0.00122	0.00173	0.00181	0.00228	0.00191	0.00126	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00061	0.00045	0.00066	0.00128	0.00057	0.00056	0.00063	0.0014	0.00131	0.00112	0.00134	0.00124	0.00107	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00162	0.00265	0.00172	0.00054	0.00107	0.00154	0.00841	0.0137	0.00187	0.00037	0.00117	0.00118	0.00177	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00079	0.00049	0.00089	0.00145	0.00077	0.0009	< 0.00057	0.0009	0.00127	0.00118	0.0014	0.00141	0.00103	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00035	< 0.00033	0.00034	< 0.00033	0.00037	0.00048	0.00048	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00034	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00046	< 0.00033	0.00033	< 0.00033	0.00038	0.00036	0.00041	0.00034	0.00066	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	0.00195	< 0.001	< 0.001	< 0.001	0.00132	0.00186	0.00192	0.00252	0.00202	0.0012	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	0.00851	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.112	0.0931	0.102	0.14	< 0.113	0.0972	0.15	0.255	0.174	0.0809	0.165	0.188	< 0.122	
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0366	0.0355	0.0376	0.0468	0.0383	0.0381	0.0375	0.0405	0.0433	0.0434	0.0467	0.0487	0.0451	
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0175	0.015	0.0143	0.0216	0.0227	0.018	0.0149	0.0199	0.0226	0.0258	0.0246	0.0219	0.0298	
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	37.8	38.8	37.7	38.8	39.2	39.4	39.3	37.9	36.9	36.5	35.4	38.6	39.3	
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.0944	0.124	0.105	0.1	0.0905	0.0787	0.114	0.22	0.132	0.0794	0.107	0.111	0.0776	
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.9	11	10.8	10.9	11.5	11.7	11.1	11.2	10.5	10.3	9.84	10.8	11.4	
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.59	1.56	1.58	1.63	1.58	1.55	1.62	1.54	1.55	1.55	1.62	1.63	1.63	
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.76	6.69	6.54	6.84	7.03	6.94	6.59	6.62	6.55	6.69	6.88	6.88	7.09	
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.113	0.113	0.11	0.122	0.118	0.117	0.111	0.114	0.116	0.118	0.117	0.124	0.126	
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00042	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.0009	0.00068	0.00088	0.00206	0.00061	0.00081	0.00082	0.0015	0.00204	0.00205	0.00252	0.00237	0.00157	
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00054	< 0.00033	< 0.00033	< 0.00033	0.00042	0.00047	0.00037	0.00054	0.00271	0.00043	
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00101	0.00069	0.00087	0.00202	0.00076	0.00076	0.00087	0.00212	0.00198	0.00168	0.00209	0.00205	0.0019	
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00036	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0258	0.0301	0.0324	0.0317	0.027	0.021	0.0317	0.0393	0.0316	0.0294	0.0299	0.035	0.0286	
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00078	0.00054	0.00082	0.0015	0.00099	0.00087	< 0.0007	0.00093	0.00109	0.00121	0.00129	0.00144	0.00121	

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	Year	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	
		Location	Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Sample Date	Location	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0
		Depth Interval	Sample Date	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0
		Unique Sample ID	Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	HYP-EPI-Max KIF-ERM1.0-	MID	MID	MID	MID	MID
Group	Analytical Method	Analyte Name	Units	KIF-ERM0.3-SW-091410	KIF-ERM0.3-SW-092210	KIF-ERM0.3-SW-092810	KIF-ERM0.3-SW-100510	KIF-ERM0.3-SW-101210	KIF-ERM0.3-SW-101910	KIF-ERM1.0-SW-083110	SW-090810-HYP-EPI-Max	KIF-ERM1.0-SW-091410	KIF-ERM1.0-SW-092210	KIF-ERM1.0-SW-092810	KIF-ERM1.0-SW-100510	KIF-ERM1.0-SW-101210	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00054	0.00045	0.00043	0.00067	0.00048	0.00045	0.00072	0.00064	0.00054	0.00044	0.00042	0.00053	0.00035	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00052	< 0.00033	< 0.00033	< 0.00033	0.00036	< 0.00033	0.00043	0.00035	0.00039	0.00093	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.0011	< 0.001	0.00111	0.00258	< 0.001	< 0.001	< 0.001	0.00179	0.00225	0.00224	0.00301	0.0028	0.00197	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	0.00993	< 0.0083	< 0.0083	0.0137	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.000189	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	139	142	139	142	145	147	144	141	135	134	129	141	145	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	162	164	153	171	161	181	174	161	156	156	139	165	168	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	4.5	3.1	< 6.1	5.6	4.6	6.2	7	8.7	6.5	5	< 7.8	8	4.4	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.78	1.6	1.74	1.95	1.75	1.51	1.56	1.75	1.91	1.76	1.83	1.97	1.75	
Rads	EPA 901.1	Actinium-228	pCi/L	--	< 12.6	< 17.4	--	--	--	--	--	--	< 17	--	< 13	--	
Rads	EPA 901.1	Americium-241	pCi/L	--	< 20.9	< 6.06	--	--	--	--	--	--	< 6.92	--	< 16	--	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	< 7.43	< 8.83	--	--	--	--	--	--	< 10.4	--	34.6	--	
Rads	EPA 901.1	Cesium-137	pCi/L	--	< 3.1	< 4.12	--	--	--	--	--	--	< 4.25	--	< 3.15	--	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	< 2.97	< 3.18	--	--	--	--	--	--	< 5.72	--	< 3.25	--	
Rads	EPA 901.1	Lead-212	pCi/L	--	< 7.24	< 7.56	--	--	--	--	--	--	< 7.68	--	< 7.05	--	
Rads	EPA 901.1	Lead-214	pCi/L	--	< 8.05	< 15.9	--	--	--	--	--	--	< 9.99	--	< 23.9	--	
Rads	EPA 901.1	Potassium-40	pCi/L	--	< 48.2	< 48.4	--	--	--	--	--	--	< 54.6	--	< 42.5	--	
Rads	EPA 901.1	Thallium-208	pCi/L	--	< 3.99	< 4.7	--	--	--	--	--	--	< 5.77	--	< 3.88	--	
Rads	EPA 901.1	Thorium-234	pCi/L	--	< 194	< 75.4	--	--	--	--	--	--	< 86	--	< 162	--	
Rads	EPA 903.1	Radium-226	pCi/L	--	< 0.44	< 0.623	--	--	--	--	--	--	0.88	--	0.592	--	
Rads	EPA 904.0	Radium-228	pCi/L	--	< 0.327	< 0.986	--	--	--	--	--	--	< 0.972	--	< 0.68	--	
Rads	HASL300 Th	Thorium-228	pCi/L	--	< 0.104	< 0.0766	--	--	--	--	--	--	< 0.0875	--	< 0.0771	--	
Rads	HASL300 Th	Thorium-230	pCi/L	--	< 0.0968	< 0.0514	--	--	--	--	--	--	< 0.0551	--	< 0.0668	--	
Rads	HASL300 Th	Thorium-232	pCi/L	--	< 0.0933	< 0.0412	--	--	--	--	--	--	< 0.0867	--	< 0.0417	--	
Rads	HASL300 U	Uranium-234	pCi/L	--	< 0.13	0.265	--	--	--	--	--	--	0.157	--	0.175	--	
Rads	HASL300 U	Uranium-235	pCi/L	--	< 0.0792	< 0.0972	--	--	--	--	--	--	< 0.142	--	< 0.0717	--	
Rads	HASL300 U	Uranium-238	pCi/L	--	0.166	0.171	--	--	--	--	--	--	< 0.115	--	0.165	--	
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	0.000328	0.00035	--	--	--	--	--	--	0.000467	
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	0.000097	0.000104	--	--	--	--	--	--	0.000329	
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	0.000426	0.000453	--	--	--	--	--	--	0.000795	
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	0.000275	0.000279	--	--	--	--	--	--	0.000605	
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	0.0007	0.000732	--	--	--	--	--	--	0.0014	
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	0.000561	0.000453	--	--	--	--	--	--	0.000983	
Speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	< 0.000157	< 0.000157	--	--	--	--	--	--	0.000483	
Speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	0.000483	
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	0.000561	0.000453	--	--	--	--	--	--	0.0005	

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit	ER_A	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM1.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM3.0	ERM3.0	ERM3.0	ERM3.0
		Sample Date	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	
Unique Sample ID		KIF-ERM1.0-SW-101910	KIF-ERM2.0-SW-083110	KIF-ERM2.0-SW-090810	KIF-ERM2.0-SW-091410	KIF-ERM2.0-SW-092210	KIF-ERM2.0-SW-092810	KIF-ERM2.0-SW-100510	KIF-ERM2.0-SW-101210	KIF-ERM2.0-SW-101910	KIF-ERM3.0-SW-083110	KIF-ERM3.0-SW-090810	KIF-ERM3.0-SW-091410	KIF-ERM3.0-SW-092210		
Group	Analytical Method	Analyte Name	Units													
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0423	0.0362	0.0379	0.0373	0.0365	0.0474	0.0474	0.0428	0.0432	0.0372	0.0406	0.0445	0.0436
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0247	< 0.0125	0.0152	0.0172	0.0163	0.0218	0.0257	0.0243	0.0227	0.0186	0.02	0.0207	0.0203
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	39.6	37.4	35.9	36.6	37.6	34.6	35.5	38.2	38.4	36.4	36.2	36.1	35.3
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.0251	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	11.4	10.6	10.6	10.4	10.7	9.85	10	11.1	11.1	10.5	10.5	10.4	10
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.53	1.6	1.52	1.5	1.49	1.6	1.62	1.56	1.52	1.59	1.55	1.5	1.52
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.77	6.35	6.43	6.48	6.44	6.16	6.48	7.02	6.64	6.35	6.42	6.38	6.08
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.119	0.107	0.111	0.111	0.112	0.113	0.115	0.125	0.117	0.107	0.112	0.114	0.11
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00108	0.00091	0.00109	0.00116	0.00106	0.00232	0.00168	0.00142	0.00111	0.0014	0.00147	0.00198	0.0016
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00103	0.00063	0.00062	0.00117	0.00057	0.00068	0.00073	0.00127	0.00089	0.00292	0.00048	0.00048	0.00044
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00048	0.015	0.00371	0.00424	0.00488	0.00672	0.00088	0.00229	0.00155	0.0171	0.0269	0.01	0.0006
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00104	< 0.00062	0.00066	0.00078	0.00067	0.00125	0.00117	0.0009	0.00102	< 0.00101	0.00076	0.00086	0.00079
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00036	0.00043	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00059	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	0.00047	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00035	< 0.00033	0.00058	0.00047	0.00049	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	0.00121	< 0.001	< 0.001	0.00102	< 0.001	0.00128	0.00123	0.00118	< 0.001	0.00108	< 0.001	< 0.001	< 0.001
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.122	0.271	0.251	0.319	0.272	0.259	0.246	< 0.215	0.168	< 0.05	0.26	0.163	0.124
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0439	0.0409	0.0415	0.0423	0.0407	0.0534	0.054	0.0451	0.0474	0.0374	0.0446	0.0473	0.0475
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0264	0.0158	0.0161	0.02	0.0175	0.0235	0.0229	0.027	0.025	0.0177	0.0182	0.0196	0.0205
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	39.5	38.1	35.9	36.9	38	34.3	36	38.8	38.7	36.9	35.8	36	35.6
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.0808	0.191	0.186	0.226	0.184	0.251	0.202	0.153	0.128	< 0.025	0.229	0.165	0.123
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	11.6	10.9	10.5	10.7	10.8	9.73	10	11.3	11.4	10.6	10.6	10.4	10
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.58	1.66	1.54	1.57	1.55	1.57	1.66	1.59	1.56	1.62	1.57	1.54	1.56
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	7	6.51	6.29	6.58	6.65	6.08	6.46	6.93	6.9	6.39	6.28	6.36	6.18
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.124	0.11	0.11	0.115	0.117	0.112	0.116	0.123	0.123	0.107	0.111	0.114	0.112
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00141	0.00136	0.00141	0.00185	0.00168	0.0027	0.00278	0.00163	0.00158	0.00134	0.00195	0.00244	0.00215
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	0.00039	< 0.00033	< 0.00033	0.0005	0.00033	< 0.00033	< 0.00033	0.00045	0.00034	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00145	0.00105	0.00141	0.00173	0.00123	0.00122	0.00131	0.00145	0.00143	0.00077	0.00093	0.00086	0.00092
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	0.00044	0.00036	0.00044	0.00036	0.00035	< 0.00033	0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0244	0.0499	0.042	0.0487	0.0444	0.0776	0.0639	0.0498	0.0382	0.00825	0.0871	0.101	0.0577
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00111	< 0.00061	0.00062	0.0008	0.00062	0.0011	0.0012	0.00091	0.00103	< 0.00112	0.0009	0.00084	0.00093

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	ER_A	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM1.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM3.0	ERM3.0	ERM3.0	ERM3.0
		Sample Date	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	
		Unique Sample ID	KIF-ERM1.0-SW-101910	KIF-ERM2.0-SW-083110	KIF-ERM2.0-SW-090810	KIF-ERM2.0-SW-091410	KIF-ERM2.0-SW-092210	KIF-ERM2.0-SW-092810	KIF-ERM2.0-SW-100510	KIF-ERM2.0-SW-101210	KIF-ERM2.0-SW-101910	KIF-ERM3.0-SW-083110	KIF-ERM3.0-SW-090810	KIF-ERM3.0-SW-091410	KIF-ERM3.0-SW-092210	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.0005	0.00068	0.00064	0.00067	0.00062	0.00062	0.00086	0.00056	0.00044	0.00047	0.0005	0.00055	0.00053
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	0.00051	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00038	0.00055	0.00047	0.00053	< 0.00033	< 0.00033	0.00034
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00161	0.0015	0.0016	0.00202	0.00154	0.00199	0.00217	0.0017	0.00145	0.00109	0.00132	0.00146	0.00116
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	0.000157	< 0.00015	0.000186	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	147	140	133	136	140	126	131	143	144	136	133	133	130
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	179	165	155	154	153	161	147	162	177	159	152	151	150
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	4.2	10	8.9	11.9	9.2	< 10.1	10.2	9.9	7.8	7	8	6.2	3.9
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.52	1.61	1.78	1.75	1.61	2.18	2.22	1.92	1.63	1.71	1.93	1.75	1.75
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	< 13.9	< 14.9	--	--	--	--	--	--	< 14.7
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	< 22.4	< 26.6	--	--	--	--	--	--	< 12.3
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	< 7.47	< 8.71	--	--	--	--	--	--	< 8.33
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	< 4.16	< 3.42	--	--	--	--	--	--	< 3.53
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	< 3.17	< 3.54	--	--	--	--	--	--	< 3.32
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	< 6.43	< 11.2	--	--	--	--	--	--	< 6.88
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	< 8.02	< 8.94	--	--	--	--	--	--	< 8.02
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	< 39.6	< 51.1	--	--	--	--	--	--	< 49.8
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	< 3.53	< 5.47	--	--	--	--	--	--	< 4
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	< 206	< 266	--	--	--	--	--	--	< 128
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	< 0.498	< 1.64	--	--	--	--	--	--	< 0.579
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	< 0.752	< 1.72	--	--	--	--	--	--	< 0.707
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	< 0.102	< 0.0822	--	--	--	--	--	--	< 0.127
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	< 0.0736	< 0.0443	--	--	--	--	--	--	< 0.102
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	< 0.0459	< 0.0442	--	--	--	--	--	--	< 0.0618
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	< 0.138	0.173	--	--	--	--	--	--	< 0.174
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	< 0.124	< 0.125	--	--	--	--	--	--	< 0.147
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	0.104	0.105	--	--	--	--	--	--	< 0.174
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	0.00053	--	--	--	--	--	--	0.00067	0.000747	--	--	--	--
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	0.000294	--	--	--	--	--	--	0.000339	0.000401	--	--	--	--
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	0.000824	--	--	--	--	--	--	0.00101	0.00115	--	--	--	--
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	0.000611	--	--	--	--	--	--	0.000688	0.000362	--	--	--	--
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	0.00143	--	--	--	--	--	--	0.0017	0.00151	--	--	--	--
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	0.000753	--	--	--	--	--	--	0.00102	0.000655	--	--	--	--
Speciation	FGS-129	Selenate, Dissolved	mg/L	0.000223	--	--	--	--	--	--	0.000544	0.000283	--	--	--	--
Speciation	FGS-129	Selenite, Dissolved	mg/L	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	< 0.000285	--	--	--	--	--	--	0.000544	< 0.000285	--	--	--	--
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	0.00053	--	--	--	--	--	--	0.000479	< 0.000388	--	--	--	--

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit	ER_B	ER_B	ER_B	ER_B	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_R
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM3.0	ERM3.0	ERM3.0	ERM3.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM8.0
		Sample Date	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	
		Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	MID	
		Unique Sample ID	KIF-ERM3.0-SW-092810	KIF-ERM3.0-SW-100510	KIF-ERM3.0-SW-101210	KIF-ERM3.0-SW-101910	KIF-ERM4.0-SW-083110	KIF-ERM4.0-SW-090810	KIF-ERM4.0-SW-091410	KIF-ERM4.0-SW-092210	KIF-ERM4.0-SW-092810	KIF-ERM4.0-SW-100510	KIF-ERM4.0-SW-101210	KIF-ERM4.0-SW-101910	KIF-ERM8.0-SW-083110	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00058	0.00063	0.00051	0.00046	0.00069	0.00069	0.0005	0.00052	0.00057	0.00083	0.00063	0.00052	0.00064
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	0.00033	0.00034	< 0.00033	0.00035	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00171	0.00173	0.00117	< 0.001	< 0.001	0.00153	0.00116	< 0.001	< 0.001	0.0014	0.00111	< 0.001	< 0.001
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	126	129	130	133	122	129	129	126	130	125	127	130	132
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	161	143	153	170	150	148	157	144	160	141	147	167	156
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	< 11.1	8.1	5.2	6.6	3.9	9.1	8	4.8	< 4.7	7.6	8.5	6.6	2.8
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	2.01	2.24	1.96	1.83	2	1.75	1.98	1.87	1.9	2.61	1.9	1.81	1.79
Rads	EPA 901.1	Actinium-228	pCi/L	< 14.4	--	--	--	--	--	--	< 12.9	< 14.2	--	--	--	--
Rads	EPA 901.1	Americium-241	pCi/L	< 15.1	--	--	--	--	--	--	< 12.9	< 17.1	--	--	--	--
Rads	EPA 901.1	Bismuth-214	pCi/L	< 8.82	--	--	--	--	--	--	< 7.72	< 8.59	--	--	--	--
Rads	EPA 901.1	Cesium-137	pCi/L	< 3.47	--	--	--	--	--	--	< 3.14	< 3.36	--	--	--	--
Rads	EPA 901.1	Cobalt-60	pCi/L	< 3.82	--	--	--	--	--	--	< 3.1	< 3.59	--	--	--	--
Rads	EPA 901.1	Lead-212	pCi/L	< 6.83	--	--	--	--	--	--	< 5.81	< 6.56	--	--	--	--
Rads	EPA 901.1	Lead-214	pCi/L	< 8.91	--	--	--	--	--	--	< 7.42	< 8.35	--	--	--	--
Rads	EPA 901.1	Potassium-40	pCi/L	< 48.8	--	--	--	--	--	--	< 45.4	< 50	--	--	--	--
Rads	EPA 901.1	Thallium-208	pCi/L	< 3.86	--	--	--	--	--	--	< 3.29	< 3.93	--	--	--	--
Rads	EPA 901.1	Thorium-234	pCi/L	< 158	--	--	--	--	--	--	< 146	< 172	--	--	--	--
Rads	EPA 903.1	Radium-226	pCi/L	< 0.635	--	--	--	--	--	--	< 0.492	< 0.565	--	--	--	--
Rads	EPA 904.0	Radium-228	pCi/L	< 1.09	--	--	--	--	--	--	< 1	3.77	--	--	--	--
Rads	HASL300 Th	Thorium-228	pCi/L	< 0.081	--	--	--	--	--	--	< 0.0609	< 0.109	--	--	--	--
Rads	HASL300 Th	Thorium-230	pCi/L	0.132	--	--	--	--	--	--	< 0.0204	< 0.0743	--	--	--	--
Rads	HASL300 Th	Thorium-232	pCi/L	< 0.0521	--	--	--	--	--	--	< 0.0126	< 0.0463	--	--	--	--
Rads	HASL300 U	Uranium-234	pCi/L	0.142	--	--	--	--	--	--	< 0.137	0.251	--	--	--	--
Rads	HASL300 U	Uranium-235	pCi/L	< 0.0672	--	--	--	--	--	--	< 0.133	< 0.0779	--	--	--	--
Rads	HASL300 U	Uranium-238	pCi/L	0.109	--	--	--	--	--	--	0.135	0.252	--	--	--	--
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	0.000817	0.000752	--	--	--	--	--	--	0.000801	0.000676	--
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	0.000381	0.000406	--	--	--	--	--	--	0.000325	0.00033	--
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	0.0012	0.00116	--	--	--	--	--	--	0.00113	0.00101	--
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	0.00073	0.00056	--	--	--	--	--	--	0.000661	0.000311	--
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	0.00165	0.00172	--	--	--	--	--	--	0.00179	0.00132	--
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	0.00049	0.000598	--	--	--	--	--	--	< 0.000388	0.000434	--
Speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	< 0.000157	0.000206	--	--	--	--	--	--	< 0.000157	0.000267	--
Speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	0.00049	0.000392	--	--	--	--	--	--	< 0.000388	< 0.000388	--

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit Year Location Sample Date Depth Interval Unique Sample ID	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	TR_B	TR_B	TR_B	TR_B	TR_B	TR_B		
			2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
			ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0
			09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/13/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/05/2010	10/05/2010
			MID	MID	MID	MID	MID	MID	MID	HYP-EPI-Max	MID	MID	MID	MID	MID	MID	MID
			KIF-ERM8.0-SW-090810	KIF-ERM8.0-SW-091410	KIF-ERM8.0-SW-092210	KIF-ERM8.0-SW-092810	KIF-ERM8.0-SW-100510	KIF-ERM8.0-SW-101310	KIF-ERM8.0-SW-101910	SW-083110-HYP-EPI-Max	KIF-TRM566.0-SW-090810	KIF-TRM566.0-SW-091410	KIF-TRM566.0-SW-092110	KIF-TRM566.0-SW-092910	KIF-TRM566.0-SW-100510		
Group	Analytical Method	Analyte Name	Units														
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.065	< 0.05	< 0.05	< 0.05
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0423	0.0457	0.0468	0.043	0.045	0.0487	0.0524	0.0349	0.0299	0.028	0.0273	0.0259	0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0173	0.0182	0.0201	0.0184	0.0171	0.0234	0.0197	0.0162	0.0169	0.0149	0.0147	0.0137	< 0.0125	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	33.6	34.5	33.3	25.3	29.4	30.3	32.6	35.2	28.7	23	27.3	22.5	21.5	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.0839	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	9.81	9.73	9.51	7.18	8.26	8.47	9.1	10.2	7.92	5.77	7.5	5.77	5.39	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.56	1.56	1.6	1.64	1.72	1.66	1.7	1.57	1.54	1.55	1.48	1.48	1.62	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.07	6.01	5.87	5.35	6.08	6.17	6.24	7.03	6.88	7.51	6.97	7.53	7.98	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.103	0.103	0.0995	0.0808	0.0919	0.0919	0.0975	0.104	0.0946	0.079	0.0867	0.0755	0.0773	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00066	0.00067	0.00044	0.00042	0.00034	0.00061	0.0005	0.00087	0.0007	0.00066	0.00065	0.00069	0.00098	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00041	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00318	0.00069	0.00079	< 0.00041	0.00052	0.00105	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	< 0.00214	0.0373	0.00643	0.0006	0.00053	0.00084	0.00092	0.0251	< 0.00058	0.0387	0.00045	< 0.00033	0.00365	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00068	0.0007	0.00066	0.00053	0.00057	0.00058	0.00085	0.00071	0.00059	0.00041	0.00035	0.00054	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00037	0.00054	0.00039	0.00041	0.00063	0.0004	0.00046	< 0.00051	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	0.0016	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.263	0.146	< 0.05	0.0676	0.11	0.151	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0455	0.0454	0.0488	0.0458	0.0509	0.0502	0.0531	0.0396	0.0326	0.0264	0.0298	0.0276	0.0299	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0172	0.0179	0.0179	0.0174	0.0185	0.0192	0.0198	0.017	0.0163	0.0136	0.0126	0.0152	0.0127	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Total	mg/L	34.6	33.2	32.8	26.1	29.7	29.8	31.2	35.6	29.3	23.1	28	22.3	21.2	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.0797	0.0895	0.0932	0.0554	0.106	0.0875	0.133	0.236	0.142	< 0.025	0.0805	0.104	0.167	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.1	9.63	9.23	7.42	8.4	8.41	8.88	10.5	8.11	5.94	7.76	5.75	5.4	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.58	1.52	1.61	1.68	1.73	1.66	1.61	1.61	1.54	1.55	1.52	1.52	1.65	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.06	6	5.8	5.44	6.18	6.15	6.13	7.14	6.86	7.59	6.95	7.61	7.98	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.103	0.102	0.0989	0.0824	0.0934	0.0916	0.096	0.107	0.0946	0.081	0.0875	0.0761	0.0782	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00079	0.0008	0.00051	0.00038	0.00057	0.00058	0.00071	0.00131	0.0008	0.00061	0.00068	0.00075	0.00088	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	< 0.00033	0.00041	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00067	0.00033	0.00036	< 0.00033	0.00048	0.00033	0.00044	0.00219	0.00098	0.00056	0.00059	0.00082	0.00087	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00047	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0781	0.111	0.122	0.0262	0.196	0.0618	0.087	0.0943	0.0468	< 0.00033	0.0454	0.0493	0.0772	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00063	0.00071	0.00069	0.00045	0.00068	0.00068	0.00082	0.00042	0.00051	0.0006	< 0.00033	0.00055	< 0.00033	

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	Year	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	TR_B	TR_B	TR_B	TR_B	TR_B	TR_B	
		Location	Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Sample Date	Location	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0
		Depth Interval	Sample Date	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/13/2010	10/19/2010	10/19/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010
		Unique Sample ID	Depth Interval	MID	MID	MID	MID	MID	MID	MID	MID	MID	HYP-EPI-Max	MID	MID	MID	MID	MID
Group	Analytical Method	Analyte Name	Units	KIF-ERM8.0-SW-090810	KIF-ERM8.0-SW-091410	KIF-ERM8.0-SW-092210	KIF-ERM8.0-SW-092810	KIF-ERM8.0-SW-100510	KIF-ERM8.0-SW-101310	KIF-ERM8.0-SW-101910	SW-083110-HYP-EPI-Max	KIF-TRM566.0-SW-090810	KIF-TRM566.0-SW-091410	KIF-TRM566.0-SW-092110	KIF-TRM566.0-SW-092910	KIF-TRM566.0-SW-100510		
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	< 0.00033	0.00055	0.00052	0.0004	0.00072	0.00051	0.00053	0.00065	< 0.00033	< 0.00033	< 0.00033	0.00035	0.00113		
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	0.00038	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00153	< 0.001	< 0.001	< 0.001	< 0.001	0.00102		
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083		
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	0.000166	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015		
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	128	123	120	95.7	109	109	114	132	107	82.2	102	79.3	75.2		
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	146	146	141	117	136	131	153	155	122	100	118	99	102		
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	2.5	2.9	3.5	< 2.4	3.7	3.3	6.2	14	4.9	5	4.4	5.1	8		
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.78	1.97	1.9	2.35	2.26	2.17	2.08	1.96	< 1.87	2.1	1.84	1.94	2.16		
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	< 10.9	< 13	--	--	--	--	--	--	< 12.7	< 12.9	--		
Rads	EPA 901.1	Americium-241	pCi/L	--	--	< 11.7	< 12.1	--	--	--	--	--	--	< 24.3	< 16	--		
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	< 8.78	< 7.89	--	--	--	--	--	--	< 7.66	< 8.43	--		
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	< 2.58	< 2.85	--	--	--	--	--	--	< 4.03	< 3.77	--		
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	< 2.8	< 3.09	--	--	--	--	--	--	< 3.2	< 3.17	--		
Rads	EPA 901.1	Lead-212	pCi/L	--	--	< 5.84	< 6.8	--	--	--	--	--	--	< 6.57	< 7.11	--		
Rads	EPA 901.1	Lead-214	pCi/L	--	--	< 7.15	< 7.78	--	--	--	--	--	--	< 7.99	< 11.3	--		
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	< 38.7	< 39.9	--	--	--	--	--	--	< 36	< 48.1	--		
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	< 3.51	< 3.65	--	--	--	--	--	--	< 3.33	< 3.89	--		
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	< 172	< 127	--	--	--	--	--	--	< 203	< 156	--		
Rads	EPA 903.1	Radium-226	pCi/L	--	--	< 0.261	< 0.62	--	--	--	--	--	--	< 0.393	0.609	--		
Rads	EPA 904.0	Radium-228	pCi/L	--	--	< 0.818	< 0.567	--	--	--	--	--	--	< 0.54	< 0.98	--		
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	< 0.102	< 0.0943	--	--	--	--	--	--	< 0.11	< 0.104	--		
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	< 0.0568	< 0.0508	--	--	--	--	--	--	< 0.0652	0.235	--		
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	< 0.0378	< 0.0507	--	--	--	--	--	--	< 0.0407	< 0.125	--		
Rads	HASL300 U	Uranium-234	pCi/L	--	--	< 0.128	< 0.081	--	--	--	--	--	--	< 0.108	< 0.232	--		
Rads	HASL300 U	Uranium-235	pCi/L	--	--	< 0.125	< 0.0908	--	--	--	--	--	--	< 0.0723	< 0.18	--		
Rads	HASL300 U	Uranium-238	pCi/L	--	--	0.147	< 0.117	--	--	--	--	--	--	< 0.108	< 0.145	--		
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	--	0.000085	0.000158	--	--	--	--	--	--		
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	--	0.000189	0.000165	--	--	--	--	--	--		
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.000274	0.000323	--	--	--	--	--	--		
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.00035	0.000293	--	--	--	--	--	--		
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	0.000623	0.000616	--	--	--	--	--	--		
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	< 0.000388	< 0.000388	--	--	--	--	--	--		
Speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	--	< 0.000157	< 0.000157	--	--	--	--	--	--		
Speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--		
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--		
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	--	< 0.000388	< 0.000388	--	--	--	--	--	--		

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth		Location Unit		TR_B	TR_B	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	
Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	TRM566.0	TRM566.0	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5
		Sample Date	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010		
		Depth Interval	MID	MID	MID	HYP-EPI-Max	HYP-EPI-Max	HYP-EPI-Max	MID	MID	MID	MID		
		Unique Sample ID	KIF-TRM566.0-SW-101210	KIF-TRM566.0-SW-101910	KIF-TRM568.5-SW-083110	SW-090810-HYP-EPI-Max	SW-091410-HYP-EPI-Max	SW-092110-HYP-EPI-Max	KIF-TRM568.5-SW-092910	KIF-TRM568.5-SW-100510	KIF-TRM568.5-SW-101210	KIF-TRM568.5-SW-101910		
Group	Analytical Method	Analyte Name	Units											
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0252	0.0248	0.024	0.0329	0.0337	0.0324	0.0233	0.0228	0.0241	0.022	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0167	0.0144	< 0.0125	0.0158	0.0169	0.0169	0.0153	0.0128	0.0132	< 0.0125	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	20.6	22	20.3	33.9	33.5	34.2	20.4	19.7	19.5	18.7	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	5.26	5.66	4.92	9.74	9.2	9.74	5.06	4.82	4.96	4.62	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.54	1.6	1.49	1.5	1.6	1.52	1.51	1.63	1.55	1.57	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	7.92	7.78	7.01	7.22	8.16	7.61	7.79	8.22	7.71	7.74	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.0748	0.0749	0.0702	0.106	0.102	0.102	0.0698	0.0724	0.0701	0.066	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00062	0.00052	0.00047	0.00072	0.00097	0.0009	0.00047	0.00047	0.00044	0.00047	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00066	0.00047	0.00205	0.00058	0.00082	< 0.00058	0.00038	0.00047	0.00045	0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00046	0.00035	< 0.00036	0.00567	0.00138	0.00383	0.00102	0.00207	0.00038	0.00068	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00072	0.00038	< 0.00033	0.00053	0.00063	0.00058	0.00048	< 0.00033	0.00041	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.0004	< 0.00033	< 0.00033	< 0.00033	0.00034	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	0.0004	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	0.0017	--	--	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	< 0.122	0.0867	0.0781	0.206	0.12	0.143	0.117	0.14	0.109	0.0988	
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0275	0.027	0.0266	0.0364	0.0371	0.0352	0.0252	0.0261	0.0268	0.0248	
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0182	0.0149	< 0.0125	0.0165	0.0167	0.017	0.014	< 0.0125	0.0162	< 0.0125	
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	20.9	21.7	20.9	34.8	35.1	34.6	20	19.6	19.8	18.8	
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.12	0.0972	0.116	0.198	0.131	0.123	0.132	0.199	0.135	0.135	
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	5.38	5.54	5.13	10.2	9.8	9.96	5	4.83	5.01	4.65	
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.63	1.6	1.57	1.55	1.57	1.56	1.5	1.63	1.58	1.62	
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	7.92	7.65	7.32	7.19	7.95	7.54	7.63	8.3	7.9	7.8	
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.0751	0.0738	0.073	0.109	0.107	0.103	0.0691	0.0735	0.0715	0.0671	
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00092	0.0005	0.0005	0.0009	0.00117	0.00094	0.00054	0.00068	0.00036	0.00047	
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	0.00048	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	0.00043	< 0.00033	< 0.00033	< 0.00033	0.00038	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00095	0.00072	0.00064	0.00111	0.00129	0.0009	0.0006	0.00064	0.00054	0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0558	0.0386	0.0578	0.0555	0.0518	0.0637	0.0596	0.0766	0.063	0.0494	
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00059	0.00041	< 0.00033	0.00051	0.00073	0.00057	0.00044	< 0.00033	0.00039	< 0.00033	

APPENDIX D-1: ANALYTICAL RESULTS - MID-DEPTH SURFACE WATER

Mid-Depth Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	Unit	TR_B	TR_B	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	
		Year		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	
		Location		TRM566.0	TRM566.0	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5
		Sample Date		10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	10/19/2010
		Depth Interval		MID	MID	MID	HYP-EPI-Max	HYP-EPI-Max	HYP-EPI-Max	MID	MID	MID	MID	MID
		Unique Sample ID		KIF-TRM566.0-SW-101210	KIF-TRM566.0-SW-101910	KIF-TRM568.5-SW-083110	SW-090810-HYP-EPI-Max	SW-091410-HYP-EPI-Max	SW-092110-HYP-EPI-Max	KIF-TRM568.5-SW-092910	KIF-TRM568.5-SW-100510	KIF-TRM568.5-SW-101210	KIF-TRM568.5-SW-101910	
Group	Analytical Method	Analyte Name	Units											
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00053	< 0.00033	< 0.00033	< 0.00033	0.0006	0.0005	0.00036	0.00035	0.00045	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00045	0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.00122	0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	74.5	76.9	73.4	129	128	128	70.7	68.8	70	66.2	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	84	100	102	149	154	146	100	99	104	90	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	6.2	6.2	5	7.5	6.7	6.4	5.5	8.5	6.6	7.6	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	2.03	1.87	1.7	< 1.9	2	1.74	1.95	1.96	1.82	1.88	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	--	< 14.6	< 12.5	--	--	--	
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	--	< 24.2	< 11.2	--	--	--	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	--	< 7.63	< 7.69	--	--	--	
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	--	< 3.17	< 3.21	--	--	--	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	--	< 3.49	< 3.15	--	--	--	
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	--	< 7.4	< 7.06	--	--	--	
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	--	< 7.41	< 7.75	--	--	--	
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	--	< 41.3	< 45.4	--	--	--	
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	--	< 3.7	< 3.42	--	--	--	
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	--	< 238	< 128	--	--	--	
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	--	< 0.536	< 0.398	--	--	--	
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	--	< 0.384	< 0.8	--	--	--	
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	--	< 0.0912	< 0.139	--	--	--	
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	--	< 0.0641	< 0.0751	--	--	--	
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	--	< 0.0838	< 0.12	--	--	--	
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	--	0.16	< 0.193	--	--	--	
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	--	< 0.146	< 0.15	--	--	--	
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	--	< 0.118	< 0.193	--	--	--	
Speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	0.000398	0.000296	--	--	--	--	--	--	0.00033	0.000197	
Speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	0.000085	0.000054	--	--	--	--	--	--	0.00005	0.000036	
Speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	0.000483	0.00035	--	--	--	--	--	--	0.00038	0.000234	
Speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	0.000161	0.000267	--	--	--	--	--	--	0.000149	0.000228	
Speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	0.000643	0.000617	--	--	--	--	--	--	0.000529	0.000462	
Speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	< 0.000388	< 0.000388	--	--	--	--	--	--	< 0.000388	< 0.000388	
Speciation	FGS-129	Selenate, Dissolved	mg/L	< 0.000157	< 0.000157	--	--	--	--	--	--	< 0.000157	< 0.000157	
Speciation	FGS-129	Selenite, Dissolved	mg/L	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	
Speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	
Speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	< 0.000388	< 0.000388	--	--	--	--	--	--	< 0.000388	< 0.000388	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: 0.8em;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location Year Location Sample Date Depth Interval Unique Sample ID	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_A	CR_B	CR_B	CR_B	CR_B	CR_B		
			2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
			CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM2.0	CRM3.5	CRM3.5	CRM3.5	CRM3.5	CRM3.5
			08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010		
			BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		KIF-CRM2.0-SW-083110-BNT	KIF-CRM2.0-SW-090810-BNT	KIF-CRM2.0-SW-091410-BNT	KIF-CRM2.0-SW-092110-BNT	KIF-CRM2.0-SW-092910-BNT	KIF-CRM2.0-SW-100510-BNT	KIF-CRM2.0-SW-101210-BNT	KIF-CRM2.0-SW-101910-BNT	KIF-CRM3.5-SW-083110-BNT	KIF-CRM3.5-SW-090810-BNT	KIF-CRM3.5-SW-091410-BNT	KIF-CRM3.5-SW-092110-BNT	KIF-CRM3.5-SW-092910-BNT			
Group	Analytical Method	Analyte Name	Units														
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00047	0.00053	0.00067	0.00042	0.00086	0.00058	0.00077	0.00074	0.00056	0.00048	0.00076	0.00036	0.00076	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00073	0.00041	0.00081	0.00052	0.00142	0.0007	0.00069	0.00062	0.00062	< 0.00033	0.00047	0.00047	0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00043	0.00034	0.00038	< 0.00033	0.00036	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00127	0.00104	0.00155	0.0011	0.00296	0.00157	0.00149	< 0.001	0.001	< 0.001	0.00111	< 0.001	0.00116	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	141	137	139	142	142	141	143	147	140	136	142	144	141	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	162	151	148	164	163	165	163	186	167	154	160	162	131	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	15.6	11.6	14.7	11.8	15.2	14.4	22.6	11.3	8.7	8.8	9.5	6.8	5.3	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.79	1.9	1.76	< 1.88	1.89	1.7	1.67	1.62	1.57	< 1.85	1.86	< 2.03	1.9	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	< 13.4	< 18.5	--	--	--	--	--	--	< 13.5	< 13.8	
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	< 18.1	< 6.3	--	--	--	--	--	--	< 23.1	< 25.3	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	< 8.81	< 9.86	--	--	--	--	--	--	< 12.8	< 12.5	
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	< 3.28	< 3.7	--	--	--	--	--	--	< 3.75	< 3.03	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	< 3.18	< 4.03	--	--	--	--	--	--	< 3.5	< 2.82	
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	< 6.39	< 7.54	--	--	--	--	--	--	< 8.23	< 10	
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	< 11.9	< 8.98	--	--	--	--	--	--	< 10	< 8.32	
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	< 32.3	< 51.7	--	--	--	--	--	--	< 51.4	< 44.5	
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	< 3.68	< 4.63	--	--	--	--	--	--	< 4.53	< 4.97	
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	< 298	< 75.6	--	--	--	--	--	--	< 216	< 238	
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	< 0.577	< 0.516	--	--	--	--	--	--	< 0.341	< 0.477	
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	< 0.524	< 0.951	--	--	--	--	--	--	< 0.676	< 0.943	
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	< 0.106	< 0.133	--	--	--	--	--	--	< 0.0717	< 0.138	
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	< 0.0833	< 0.0964	--	--	--	--	--	--	< 0.0618	< 0.0626	
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	< 0.0719	< 0.0601	--	--	--	--	--	--	< 0.0385	< 0.0624	
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	0.206	< 0.248	--	--	--	--	--	--	0.159	< 0.128	
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	< 0.136	< 0.151	--	--	--	--	--	--	< 0.165	< 0.291	
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	0.0915	< 0.122	--	--	--	--	--	--	< 0.116	< 0.236	
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	--	--	0.000452	0.00045	--	--	--	--	--	
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	--	--	0.000147	0.000105	--	--	--	--	--	
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	--	--	0.0006	0.000555	--	--	--	--	--	
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	--	--	0.000292	0.000159	--	--	--	--	--	
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	--	0.000892	0.000715	--	--	--	--	--	
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	--	0.000526	0.000502	--	--	--	--	--	
speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	--	--	0.000238	0.000161	--	--	--	--	--	
speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	--	--	< 0.000388	< 0.000388	--	--	--	--	--	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: small;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location Unit		CR_B	CR_B	CR_B	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	ER_A	ER_A	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	CRM3.5	CRM3.5	CRM3.5	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	ERM0.3	ERM0.3
		Sample Date	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010		
		Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT		
		Unique Sample ID	KIF-CRM3.5-SW-100510-BNT	KIF-CRM3.5-SW-101210-BNT	KIF-CRM3.5-SW-101910-BNT	KIF-CRM6.0-SW-083110-BNT	KIF-CRM6.0-SW-090810-BNT	KIF-CRM6.0-SW-091410-BNT	KIF-CRM6.0-SW-092110-BNT	KIF-CRM6.0-SW-092910-BNT	KIF-CRM6.0-SW-100510-BNT	KIF-CRM6.0-SW-101210-BNT	KIF-CRM6.0-SW-101910-BNT	KIF-ERM0.3-SW-083110-BNT	KIF-ERM0.3-SW-090810-BNT		
Group	Analytical Method	Analyte Name	Units														
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.037	0.0362	0.0366	0.0335	0.0326	0.0342	0.0335	0.0353	0.0349	0.0351	0.0358	0.0346	0.033	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0137	0.0224	0.0168	0.0144	0.0136	0.0164	0.0134	0.0167	0.0128	0.0183	0.0169	0.015	< 0.0125	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	37.7	38.4	38.6	37.6	37.1	37.9	38.8	39	38.4	38.4	39.9	38.5	36.7	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	0.111	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	10.8	11.2	11.3	10.9	10.8	10.7	11.3	10.9	11.1	11.2	11.7	10.7	10.9	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.52	1.53	1.5	1.55	1.49	1.55	1.5	1.48	1.51	1.52	1.55	1.56	1.47	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.76	6.91	6.71	6.35	6.61	6.86	6.52	6.31	6.84	7.07	6.88	6.41	6.5	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.115	0.116	0.113	0.108	0.113	0.111	0.11	0.105	0.114	0.116	0.114	0.109	0.11	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00091	0.0009	0.00054	0.00047	0.00044	0.0004	0.00038	0.00041	0.0006	0.00041	0.00048	0.00074	0.00046	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00085	0.00051	0.00047	< 0.00056	0.00049	0.00054	< 0.00036	0.00042	0.00046	0.00165	0.00034	0.00073	0.00038	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00583	0.00619	0.00826	0.00589	0.0054	0.00499	0.00493	0.00472	0.00763	0.00281	0.00545	0.0119	0.0149	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00087	0.00093	0.00072	0.00058	0.00047	0.00099	< 0.00033	0.00064	0.00057	0.00095	0.00058	< 0.00106	0.00037	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00047	0.00034	0.00037	< 0.00049	0.00034	< 0.00033	< 0.00033	0.00035	0.00039	< 0.00033	< 0.00033	0.00065	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	0.0004	0.00036	< 0.00033	0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00034	< 0.00033	0.00049	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	0.0021	--	--	--	--	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.2	< 0.182	0.134	0.078	0.108	0.113	0.0859	0.104	0.0852	< 0.0936	0.0751	0.149	0.194	
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.04	0.0393	0.0384	0.0342	0.0339	0.0362	0.035	0.037	0.0349	0.0355	0.0369	0.0364	0.036	
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0159	0.0215	0.018	0.0147	0.014	0.0145	0.0145	0.0156	0.0149	0.0196	0.0173	0.0157	0.0154	
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	38.4	39	39.5	37.6	37.6	38.3	39.1	39.5	37.2	38.4	40.2	38.3	37.2	
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.184	0.176	0.145	0.0813	0.104	0.14	0.112	0.103	0.102	0.0888	0.0847	0.164	0.202	
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	11.1	11.4	11.8	10.9	11.1	11.1	11.2	11.1	10.9	11.3	11.8	10.8	11.1	
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.58	1.56	1.56	1.58	1.5	1.6	1.53	1.55	1.53	1.53	1.58	1.58	1.53	
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.9	6.94	7.01	6.34	6.62	6.92	6.41	6.52	6.72	6.91	6.98	6.51	6.56	
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.118	0.118	0.118	0.108	0.113	0.113	0.109	0.108	0.112	0.114	0.115	0.11	0.112	
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00108	0.00074	0.00075	0.0004	0.00043	0.00046	0.00046	0.00046	0.00042	0.0005	0.0005	0.00087	0.00074	
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	0.00049	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00048	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	0.0004	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00038	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00139	0.00103	0.00079	0.00057	0.00054	0.0008	0.00053	0.00061	0.00061	0.00053	0.00048	0.00246	0.00096	
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	0.00036	0.00035	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00043	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0534	0.058	0.0392	0.0282	0.0273	0.0438	0.0456	0.0354	0.0347	0.0292	0.0269	0.041	0.0467	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: small;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location	Unit	CR_B	CR_B	CR_B	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	CR_R	ER_A	ER_A	
		Year		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	
		Location		CRM3.5	CRM3.5	CRM3.5	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	CRM6.0	ERM0.3	ERM0.3
		Sample Date		10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	
		Depth Interval		BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	
		Unique Sample ID		KIF-CRM3.5-SW-100510-BNT	KIF-CRM3.5-SW-101210-BNT	KIF-CRM3.5-SW-101910-BNT	KIF-CRM6.0-SW-083110-BNT	KIF-CRM6.0-SW-090810-BNT	KIF-CRM6.0-SW-091410-BNT	KIF-CRM6.0-SW-092110-BNT	KIF-CRM6.0-SW-092910-BNT	KIF-CRM6.0-SW-100510-BNT	KIF-CRM6.0-SW-101210-BNT	KIF-CRM6.0-SW-101910-BNT	KIF-ERM0.3-SW-083110-BNT	KIF-ERM0.3-SW-090810-BNT	
Group	Analytical Method	Analyte Name	Units														
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00083	0.00079	0.00073	0.00043	0.00047	0.00099	< 0.00033	0.00061	0.00046	0.00079	0.0007	< 0.00091	0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00062	0.00087	0.00051	0.00067	< 0.00033	0.00046	0.00037	0.00045	0.00051	0.00041	0.00043	0.00076	0.00057	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	0.00054	0.00038	< 0.00033	0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00049	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00142	0.00101	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00115	< 0.001	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	142	144	147	139	139	141	144	144	138	142	149	140	139	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	168	168	179	165	158	168	170	162	160	175	171	170	167	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	11.5	12.3	12.4	5	3.9	9.7	7.7	12.9	5.8	4.7	4.6	10.1	10.3	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	2	1.7	1.54	1.53	< 1.97	1.79	1.71	1.74	1.9	1.7	1.61	1.51	1.74	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	--	--	< 13.5	< 14.6	--	--	--	--		
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	--	--	< 6.1	< 18.4	--	--	--	--		
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	--	--	< 7.94	< 9.46	--	--	--	--		
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	--	--	< 3.36	< 3.62	--	--	--	--		
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	--	--	< 3.78	< 3.79	--	--	--	--		
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	--	--	< 7.04	< 6.4	--	--	--	--		
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	--	--	< 8.45	< 9.34	--	--	--	--		
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	--	--	< 44.7	< 45	--	--	--	--		
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	--	--	< 3.51	< 3.49	--	--	--	--		
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	--	--	< 78.5	< 185	--	--	--	--		
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	--	--	< 0.448	< 0.369	--	--	--	--		
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	--	--	< 0.523	< 0.784	--	--	--	--		
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	--	--	< 0.072	< 0.0951	--	--	--	--		
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	--	--	< 0.0626	< 0.0947	--	--	--	--		
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	--	--	< 0.0391	< 0.0944	--	--	--	--		
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	--	--	0.269	0.365	--	--	--	--		
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	--	--	< 0.0832	< 0.27	--	--	--	--		
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	--	--	0.143	< 0.218	--	--	--	--		
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	0.000411	0.000384	--	--	--	--	--	0.000279	0.000262	--	--		
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	0.000114	0.000085	--	--	--	--	--	0.000045	0.000049	--	--		
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	0.000521	0.000469	--	--	--	--	--	0.000324	0.000311	--	--		
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	0.000304	0.000177	--	--	--	--	--	0.000224	0.000221	--	--		
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	0.000808	0.000646	--	--	--	--	--	0.000547	0.000532	--	--		
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	0.000589	0.000403	--	--	--	--	--	0.000516	< 0.000388	--	--		
speciation	FGS-129	Selenate, Dissolved	mg/L	--	0.000174	< 0.000157	--	--	--	--	--	< 0.000157	< 0.000157	--	--		
speciation	FGS-129	Selenite, Dissolved	mg/L	--	< 0.000285	< 0.000285	--	--	--	--	--	< 0.000285	< 0.000285	--	--		
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	< 0.000285	< 0.000285	--	--	--	--	--	< 0.000285	< 0.000285	--	--		
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	0.000432	0.000403	--	--	--	--	--	0.000516	< 0.000388	--	--		

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: 0.8em; margin-top: 10px;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location Unit Year Location Sample Date Depth Interval Unique Sample ID	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A			
			2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	
			ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0
			09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010			
			BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		KIF-ERM0.3-SW-091410-BNT	KIF-ERM0.3-SW-092210-BNT	KIF-ERM0.3-SW-092810-BNT	KIF-ERM0.3-SW-100510-BNT	KIF-ERM0.3-SW-101210-BNT	KIF-ERM0.3-SW-101910-BNT	KIF-ERM1.0-SW-083110-BNT	KIF-ERM1.0-SW-090810-BNT	KIF-ERM1.0-SW-091410-BNT	KIF-ERM1.0-SW-092210-BNT	KIF-ERM1.0-SW-092810-BNT	KIF-ERM1.0-SW-100510-BNT	KIF-ERM1.0-SW-101210-BNT				
Group	Analytical Method	Analyte Name	Units															
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.036	0.034	0.0379	0.0377	0.0376	0.0363	0.0346	0.0334	0.0362	0.0348	0.0361	0.039	0.0367		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0182	0.0128	0.0134	0.0135	0.0215	0.0179	0.0148	0.0129	0.0176	< 0.0125	0.0162	0.0149	0.0189		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	38.1	38.4	37.6	39.1	38.7	38.7	38.4	36.9	37.2	37.8	37.8	38.6	38.4		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	0.122	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	11	10.9	10.8	11.3	11.3	11.5	10.7	10.9	10.7	10.7	10.9	11.1	11.2		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.55	1.49	1.54	1.56	1.55	1.5	1.55	1.48	1.53	1.47	1.55	1.56	1.54		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.87	6.56	6.41	6.88	7.01	6.83	6.35	6.47	6.71	6.45	6.49	6.85	6.98		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.114	0.111	0.111	0.117	0.117	0.114	0.107	0.11	0.112	0.11	0.11	0.118	0.116		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00072	0.0005	0.0012	0.00083	0.00067	0.00064	0.00043	0.00052	0.00086	0.0007	0.00072	0.0012	0.00066		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00063	0.00045	0.00052	0.00068	0.00054	0.00044	0.00046	0.00038	0.00048	0.00042	0.00051	0.00082	0.00048		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.0207	0.00594	0.0423	0.00678	0.0276	0.0129	0.0123	0.0152	0.0185	0.0155	0.00838	0.0156	0.0126		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00058	0.00047	0.00073	0.00089	0.00089	0.00085	< 0.00066	0.00048	0.00066	0.00046	0.00077	0.001	0.00071		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.0004	< 0.00033	< 0.00033	< 0.00033	0.00033	0.00041	0.0004	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00036		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00061	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00104	< 0.001		
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083		
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--		
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015		
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.213	0.131	0.256	0.127	< 0.208	0.121	0.173	0.239	0.463	0.247	0.154	0.248	< 0.198		
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0388	0.0365	0.0427	0.04	0.0413	0.039	0.0382	0.0385	0.0433	0.039	0.0386	0.0443	0.04		
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0169	0.0139	0.015	0.017	0.0225	0.0179	0.0165	0.0143	0.0199	0.0126	0.0154	0.0156	0.0217		
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	37.5	38.8	38.6	39.4	39.3	40.2	38.5	38.7	38	38.4	37.6	40.3	39.2		
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.209	0.154	0.261	0.11	0.181	0.139	0.151	0.209	0.372	0.228	0.16	0.214	0.157		
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.9	11.1	11	11.2	11.5	11.9	10.9	11.5	11	10.9	10.8	11.5	11.4		
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.58	1.57	1.58	1.56	1.59	1.58	1.71	1.58	1.61	1.53	1.55	1.66	1.61		
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.76	6.75	6.54	6.79	7.07	7.13	6.67	6.82	6.75	6.63	6.37	6.97	7.07		
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.113	0.114	0.114	0.116	0.12	0.12	0.109	0.118	0.116	0.115	0.109	0.121	0.119		
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00116	0.00066	0.0016	0.00116	0.00156	0.00087	0.00078	0.00089	0.00184	0.00104	0.00098	0.00144	0.00065		
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	0.00036	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00037	< 0.00033	< 0.00033	0.00055	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00053	< 0.00033	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00114	0.00075	0.00108	0.00099	0.00106	0.00081	0.0008	0.00084	0.00169	0.00095	0.00091	0.00142	0.00097		
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	0.00036	< 0.00033	0.00038	< 0.00033	0.00035	0.00038	< 0.00033	0.00038	0.00069	0.00036	< 0.00033	< 0.00033	< 0.00033		
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0581	0.0406	0.0834	0.0386	0.075	0.0427	0.0359	0.0416	0.0642	0.0523	0.0406	0.0556	0.0479		

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: 0.8em;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location	Year	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	ER_A	
		Location	Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Sample Date	Location	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM0.3	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0	ERM1.0
		Depth Interval	Sample Date	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	
		Unique Sample ID	Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
Group	Analytical Method	Analyte Name	Units	KIF-ERM0.3-SW-091410-BNT	KIF-ERM0.3-SW-092210-BNT	KIF-ERM0.3-SW-092810-BNT	KIF-ERM0.3-SW-100510-BNT	KIF-ERM0.3-SW-101210-BNT	KIF-ERM0.3-SW-101910-BNT	KIF-ERM1.0-SW-083110-BNT	KIF-ERM1.0-SW-090810-BNT	KIF-ERM1.0-SW-091410-BNT	KIF-ERM1.0-SW-092210-BNT	KIF-ERM1.0-SW-092810-BNT	KIF-ERM1.0-SW-100510-BNT	KIF-ERM1.0-SW-101210-BNT	
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00064	0.00053	0.00069	0.0009	0.00079	0.00082	< 0.00064	0.00051	0.00063	0.0005	0.00064	0.00091	0.00085	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00074	0.00051	0.00066	0.00055	0.00058	0.00054	0.00069	0.0006	0.00096	0.00063	0.00044	0.00075	0.00059	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00035	0.00043	< 0.00033	< 0.00033	0.00033	< 0.00033	< 0.00033	< 0.00033	0.0004	0.00035	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00126	< 0.001	0.0013	0.00121	0.00113	< 0.001	< 0.001	0.00109	0.00204	0.0011	0.00109	0.0016	0.00113	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.000233	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	139	142	142	145	145	149	141	144	140	141	138	148	145	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	159	162	164	165	170	179	174	171	164	163	160	169	164	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	11.2	7.2	< 16.2	6.5	9.2	6.1	12.9	12.5	17.7	16.6	< 11.7	10.9	9.3	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.89	1.57	1.78	1.91	1.7	1.59	1.66	1.6	1.7	1.6	1.77	1.96	1.67	
Rads	EPA 901.1	Actinium-228	pCi/L	--	< 10.1	< 11.9	--	--	--	--	--	--	< 12.1	--	< 14.7	--	
Rads	EPA 901.1	Americium-241	pCi/L	--	< 10.4	< 11.8	--	--	--	--	--	--	< 11.7	--	< 11.6	--	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	< 5.94	< 10.9	--	--	--	--	--	--	< 7.31	--	27	--	
Rads	EPA 901.1	Cesium-137	pCi/L	--	< 2.63	< 3.47	--	--	--	--	--	--	< 3.1	--	< 3.55	--	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	< 2.84	< 2.95	--	--	--	--	--	--	< 3.18	--	< 3.68	--	
Rads	EPA 901.1	Lead-212	pCi/L	--	< 5.35	< 6.25	--	--	--	--	--	--	< 6.82	--	< 7.28	--	
Rads	EPA 901.1	Lead-214	pCi/L	--	< 6.24	< 9.78	--	--	--	--	--	--	< 7.27	--	9.73	--	
Rads	EPA 901.1	Potassium-40	pCi/L	--	< 33.2	< 33.6	--	--	--	--	--	--	< 38.9	--	< 48.3	--	
Rads	EPA 901.1	Thallium-208	pCi/L	--	< 2.95	< 3.38	--	--	--	--	--	--	< 4.03	--	< 4.1	--	
Rads	EPA 901.1	Thorium-234	pCi/L	--	< 122	< 139	--	--	--	--	--	--	< 123	--	< 130	--	
Rads	EPA 903.1	Radium-226	pCi/L	--	0.425	< 0.756	--	--	--	--	--	--	< 0.45	--	< 0.476	--	
Rads	EPA 904.0	Radium-228	pCi/L	--	< 0.806	< 2.08	--	--	--	--	--	--	< 0.733	--	< 0.709	--	
Rads	HASL300 Th	Thorium-228	pCi/L	--	< 0.112	< 0.097	--	--	--	--	--	--	< 0.107	--	< 0.124	--	
Rads	HASL300 Th	Thorium-230	pCi/L	--	< 0.081	< 0.0439	--	--	--	--	--	--	< 0.171	--	< 0.0498	--	
Rads	HASL300 Th	Thorium-232	pCi/L	--	< 0.0933	< 0.07	--	--	--	--	--	--	< 0.0577	--	< 0.0794	--	
Rads	HASL300 U	Uranium-234	pCi/L	--	0.241	0.128	--	--	--	--	--	--	0.202	--	0.199	--	
Rads	HASL300 U	Uranium-235	pCi/L	--	< 0.0751	< 0.152	--	--	--	--	--	--	< 0.153	--	< 0.0913	--	
Rads	HASL300 U	Uranium-238	pCi/L	--	0.117	0.15	--	--	--	--	--	--	0.157	--	0.172	--	
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	0.000456	0.000394	--	--	--	--	--	--	0.000368	
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	0.000248	0.000113	--	--	--	--	--	--	0.000241	
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	0.000704	0.000507	--	--	--	--	--	--	0.000609	
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	0.000305	0.00021	--	--	--	--	--	--	0.000197	
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	0.00101	0.000717	--	--	--	--	--	--	0.000806	
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	0.000488	0.000509	--	--	--	--	--	--	0.000621	
speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	0.000186	< 0.000157	--	--	--	--	--	--	0.000177	
speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	< 0.000388	0.000509	--	--	--	--	--	--	0.000444	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <small>Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only</small>		Location Unit Year Location Sample Date Depth Interval Unique Sample ID	ER_A	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B		
			2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	
			ERM1.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM3.0	ERM3.0	ERM3.0	ERM3.0
			10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/22/2010	
			BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	
		KIF-ERM1.0-SW-101910-BNT	KIF-ERM2.0-SW-083110-BNT	KIF-ERM2.0-SW-090810-BNT	KIF-ERM2.0-SW-091410-BNT	KIF-ERM2.0-SW-092210-BNT	KIF-ERM2.0-SW-092810-BNT	KIF-ERM2.0-SW-100510-BNT	KIF-ERM2.0-SW-101210-BNT	KIF-ERM2.0-SW-101910-BNT	KIF-ERM3.0-SW-083110-BNT	KIF-ERM3.0-SW-090810-BNT	KIF-ERM3.0-SW-091410-BNT	KIF-ERM3.0-SW-092210-BNT			
Group	Analytical Method	Analyte Name	Units														
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0375	0.0352	0.037	0.0387	0.0385	0.0427	0.0486	0.0411	0.0401	0.0413	0.0405	0.0463	0.0497	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0156	0.013	0.0169	0.0163	0.0162	0.0181	0.0221	0.0227	0.0201	0.0187	0.0169	0.02	0.0211	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	39.1	37.6	36.3	36.7	38.1	37.7	34.9	38.4	39	35.7	35.1	37	37	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.0522	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	11.4	10.6	10.6	10.4	10.8	10.8	9.83	11.1	11.4	10.3	10.2	10.5	10.4	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.52	1.58	1.49	1.47	1.51	1.55	1.61	1.56	1.51	1.57	1.48	1.46	1.54	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.72	6.37	6.48	6.38	6.53	6.42	6.37	7.02	6.69	6.16	6.15	6.39	6.21	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.113	0.107	0.112	0.111	0.114	0.114	0.113	0.121	0.116	0.108	0.109	0.116	0.116	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00067	0.00072	0.00115	0.00167	0.0013	0.00207	0.00192	0.00124	0.00091	0.00263	0.00199	0.00287	0.00304	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00047	0.00061	0.00048	0.00054	0.00054	0.0007	0.00067	0.00081	0.00067	0.00044	0.00042	0.00047	0.00041	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.0138	0.0164	0.0298	0.0222	0.0147	0.0295	0.0179	0.0169	0.00754	0.3	0.11	0.152	0.189	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00075	< 0.00079	0.00057	0.00077	0.00065	0.00113	0.00117	0.00094	0.00084	< 0.00098	0.00074	0.00079	0.00094	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	0.00035	0.00038	0.00083	< 0.00033	< 0.00033	0.00045	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	0.00039	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.0005	< 0.00033	0.00056	< 0.00033	0.0004	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	0.00103	< 0.001	0.00108	0.00102	< 0.001	< 0.001	0.00107	< 0.001	0.00128	0.00101	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.199	0.342	1.13	0.733	0.545	0.584	0.61	< 0.374	0.264	0.81	0.919	0.82	1.22	
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0392	0.04	0.052	0.0504	0.0458	0.0525	0.0611	0.0467	0.0441	0.0822	0.0543	0.0588	0.0689	
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.0199	0.0134	0.0184	0.0186	0.017	0.0208	0.0235	0.0264	0.0227	0.0202	0.0205	0.0225	0.0216	
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	39.2	37.4	37.2	37.5	37.4	37.1	35.5	39.3	39.1	36.5	36.1	37.3	37.3	
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.165	0.224	0.626	0.459	0.357	0.399	0.439	0.241	0.19	0.521	0.544	0.543	0.779	
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	11.6	10.7	10.9	10.8	10.7	10.6	9.94	11.4	11.6	10.5	10.6	10.7	10.6	
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.54	1.6	1.7	1.62	1.56	1.6	1.7	1.64	1.56	1.72	1.65	1.61	1.72	
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	6.89	6.39	6.46	6.62	6.48	6.33	6.37	7.08	6.95	6.21	6.29	6.48	6.38	
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.117	0.109	0.12	0.122	0.118	0.117	0.117	0.125	0.122	0.114	0.117	0.123	0.128	
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00043	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00091	0.00134	0.00293	0.00321	0.00251	0.00378	0.00358	0.00202	0.00166	0.00473	0.00375	0.00504	0.00638	
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	< 0.00033	0.00088	0.00078	0.00057	0.00072	0.00075	0.00053	0.0004	0.00081	0.00074	0.00086	0.00108	
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	0.00033	0.00083	0.00062	0.00045	0.00066	0.00064	< 0.00033	< 0.00033	0.00093	0.00071	0.00084	0.00105	
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00087	0.0011	0.00282	0.00218	0.00177	0.00213	0.00201	0.00166	0.00145	0.00233	0.00224	0.00237	0.00311	
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	0.00034	0.00048	0.00141	0.00098	0.00076	0.00104	0.00036	0.00051	0.00044	0.00143	0.00121	0.00124	0.00167	
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0414	0.0499	0.0844	0.0902	0.0789	0.127	0.114	0.0666	0.0426	0.384	0.178	0.24	0.344	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location	Year	ER_A	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	ER_B	
		Location	Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Sample Date	Location	ERM1.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM2.0	ERM3.0	ERM3.0	ERM3.0	ERM3.0
		Depth Interval	Sample Date	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/22/2010
		Unique Sample ID	Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
Group	Analytical Method	Analyte Name	Units	KIF-ERM1.0-SW-101910-BNT	KIF-ERM2.0-SW-083110-BNT	KIF-ERM2.0-SW-090810-BNT	KIF-ERM2.0-SW-091410-BNT	KIF-ERM2.0-SW-092210-BNT	KIF-ERM2.0-SW-092810-BNT	KIF-ERM2.0-SW-100510-BNT	KIF-ERM2.0-SW-101210-BNT	KIF-ERM2.0-SW-101910-BNT	KIF-ERM3.0-SW-083110-BNT	KIF-ERM3.0-SW-090810-BNT	KIF-ERM3.0-SW-091410-BNT	KIF-ERM3.0-SW-092210-BNT	
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00073	< 0.00062	0.00061	0.00082	0.00069	0.00103	0.00113	0.00088	0.00086	< 0.00122	0.00076	0.00093	0.001	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00052	0.00082	0.00144	0.00119	0.00101	0.00124	0.00147	0.00082	0.00059	0.00171	0.00136	0.00175	0.00202	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	0.00037	0.0007	0.00038	0.00045	< 0.00033	< 0.00033	0.00037	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	< 0.001	0.00143	0.0036	0.0031	0.0023	0.00292	0.00317	0.0021	0.00161	0.00366	0.00298	0.00368	0.00467	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	0.0122	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	146	138	138	138	138	136	130	145	145	134	134	137	137	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	183	163	163	154	160	159	147	168	184	164	155	160	155	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	9.6	11.6	29.6	26.7	16.2	< 13.2	21.9	16.5	12.7	22	30.3	25.4	26	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.5	1.59	1.88	1.71	1.65	1.88	2.21	1.85	1.59	1.8	1.8	1.7	1.71	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	< 15.6	< 15.3	--	--	--	--	--	--	< 13.3	
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	< 22.3	< 24.2	--	--	--	--	--	--	< 16.6	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	< 9.31	< 8.5	--	--	--	--	--	--	< 7.75	
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	< 3.6	< 3.6	--	--	--	--	--	--	< 3.36	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	< 3.92	< 3.09	--	--	--	--	--	--	< 3.65	
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	< 7.81	< 6.95	--	--	--	--	--	--	< 6.55	
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	< 9.2	< 8.53	--	--	--	--	--	--	< 8.18	
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	< 46.6	< 42.6	--	--	--	--	--	--	< 51.1	
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	< 4.51	< 3.9	--	--	--	--	--	--	< 3.6	
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	< 198	< 233	--	--	--	--	--	--	< 183	
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	< 0.503	< 0.523	--	--	--	--	--	--	< 0.504	
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	< 0.884	< 0.603	--	--	--	--	--	--	< 0.743	
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	< 0.0548	< 0.115	--	--	--	--	--	--	< 0.0643	
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	< 0.0544	< 0.102	--	--	--	--	--	--	< 0.173	
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	< 0.0543	< 0.0945	--	--	--	--	--	--	0.0569	
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	0.142	< 0.123	--	--	--	--	--	--	0.131	
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	< 0.122	< 0.152	--	--	--	--	--	--	< 0.0754	
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	0.103	0.111	--	--	--	--	--	--	0.3	
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	0.000373	--	--	--	--	--	--	0.000724	0.000485	--	--	--	--	
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	0.000166	--	--	--	--	--	--	0.000392	0.000243	--	--	--	--	
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	0.000539	--	--	--	--	--	--	0.00112	0.000728	--	--	--	--	
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	0.00026	--	--	--	--	--	--	0.000629	0.000451	--	--	--	--	
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	0.000799	--	--	--	--	--	--	0.00175	0.00118	--	--	--	--	
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	0.00045	--	--	--	--	--	--	0.000984	0.000575	--	--	--	--	
speciation	FGS-129	Selenate, Dissolved	mg/L	0.000195	--	--	--	--	--	--	0.000344	< 0.000157	--	--	--	--	
speciation	FGS-129	Selenite, Dissolved	mg/L	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	< 0.000285	--	--	--	--	--	--	0.000344	< 0.000285	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	< 0.000388	--	--	--	--	--	--	0.00064	0.000575	--	--	--	--	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <small>Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only</small>		Location Unit		ER_B	ER_B	ER_B	ER_B	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_R	
		Year		2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location		ERM3.0	ERM3.0	ERM3.0	ERM3.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM8.0
		Sample Date		09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010
		Depth Interval		BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
Unique Sample ID		KIF-ERM3.0-SW-092810-BNT	KIF-ERM3.0-SW-100510-BNT	KIF-ERM3.0-SW-101210-BNT	KIF-ERM3.0-SW-101910-BNT	KIF-ERM4.0-SW-083110-BNT	KIF-ERM4.0-SW-090810-BNT	KIF-ERM4.0-SW-091410-BNT	KIF-ERM4.0-SW-092210-BNT	KIF-ERM4.0-SW-092810-BNT	KIF-ERM4.0-SW-100510-BNT	KIF-ERM4.0-SW-101210-BNT	KIF-ERM4.0-SW-101910-BNT	KIF-ERM8.0-SW-083110-BNT		
Group	Analytical Method	Analyte Name	Units													
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0551	0.048	0.0456	0.0469	0.0366	0.0439	0.049	0.0509	0.0576	0.0477	0.0462	0.0466	0.0417
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0188	0.02	0.0231	0.023	0.0166	0.0169	0.0228	0.0209	0.0178	0.0198	0.0215	0.0221	0.0163
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	36.3	33.3	37	38.7	34.2	35.7	36.3	36.2	34.9	34	36.4	37.6	34.9
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	0.164	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.0578	< 0.025	< 0.025	< 0.025	< 0.025
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	10.3	9.39	10.7	11.2	9.86	10.3	10.3	10.2	9.93	9.56	10.5	10.8	10.1
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.54	1.59	1.53	1.54	1.52	1.56	1.51	1.56	1.55	1.62	1.55	1.58	1.56
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	6.04	6.15	6.7	6.74	6	6.24	6.29	6.06	5.84	6.16	6.76	6.55	6.07
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.114	0.109	0.118	0.12	0.102	0.111	0.114	0.114	0.108	0.106	0.117	0.116	0.103
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00228	0.00211	0.00302	0.00217	0.00156	0.00182	0.00267	0.0022	0.00192	0.00129	0.00263	0.0019	0.00077
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	< 0.00033	0.0005	0.0005	0.00055	0.00204	0.00038	0.0006	0.00033	< 0.00033	0.00042	0.00049	0.00053	< 0.00051
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.586	0.0567	0.108	0.0628	0.169	0.198	0.258	0.273	0.822	0.0135	0.0974	0.0278	0.192
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00105	0.00114	0.00098	0.00109	< 0.00087	0.00088	0.00109	0.00107	0.00096	0.00099	0.00105	0.00096	0.00056
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	0.00039	0.00055	0.00036	< 0.00033	0.00044	0.0004	0.00036	< 0.00043
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	0.00043	< 0.00033	< 0.00033	0.00037	< 0.00033	< 0.00033	0.00052	0.00035	0.0005	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00108	< 0.001	< 0.001	< 0.001	0.00102	< 0.001	< 0.001
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.557	0.824	0.767	0.775	0.276	0.825	0.56	0.244	0.288	0.272	0.675	0.396	0.187
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0862	0.0639	0.0604	0.0573	0.051	0.0587	0.0618	0.0701	0.0675	0.0542	0.0569	0.0529	0.0563
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.023	0.0207	0.0241	0.0247	0.0174	0.02	0.0232	0.0239	0.0198	0.0207	0.0253	0.0222	0.0165
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	36	34.4	37.8	38.5	36.1	36.3	36.6	36.6	35.2	33.7	36.5	37.8	35.1
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.451	0.604	0.507	0.454	0.264	0.734	0.466	0.241	0.318	0.265	0.498	0.318	0.339
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	10.2	9.64	11	11.3	10.4	10.6	10.5	10.3	9.95	9.49	10.6	11.1	10.2
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.6	1.72	1.68	1.64	1.64	1.67	1.6	1.6	1.59	1.66	1.63	1.6	1.58
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	5.96	6.15	6.79	6.81	6.31	6.22	6.4	6.21	5.86	6.17	6.66	6.7	6.07
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.117	0.115	0.124	0.127	0.108	0.114	0.119	0.118	0.11	0.108	0.12	0.12	0.103
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00427	0.00441	0.00468	0.00411	0.00236	0.00305	0.00422	0.00328	0.00281	0.00199	0.00406	0.00255	0.00139
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	0.00047	0.00071	0.0007	0.00067	< 0.00033	0.00076	0.00071	< 0.00033	< 0.00033	0.00038	0.00072	0.00042	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	0.00055	0.00085	0.00072	0.00062	0.00036	0.00088	0.00081	< 0.00033	0.00038	0.00037	0.00062	0.00039	0.00046
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.00147	0.00254	0.00217	0.00212	0.00117	0.00171	0.00171	0.00089	0.00077	0.00109	0.00203	0.00138	0.00077
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	0.00085	0.0008	0.00113	0.00115	0.00053	0.00118	0.001	0.00039	0.00044	0.0004	0.00103	0.00067	0.00046
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.686	0.154	0.222	0.128	0.225	0.26	0.355	0.399	0.866	0.114	0.176	0.0953	0.301

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Location Unit	ER_B	ER_B	ER_B	ER_B	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_C	ER_R
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM3.0	ERM3.0	ERM3.0	ERM3.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM4.0	ERM8.0
		Sample Date	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/12/2010	10/19/2010	08/31/2010	
		Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		Unique Sample ID	KIF-ERM3.0-SW-092810-BNT	KIF-ERM3.0-SW-100510-BNT	KIF-ERM3.0-SW-101210-BNT	KIF-ERM3.0-SW-101910-BNT	KIF-ERM4.0-SW-083110-BNT	KIF-ERM4.0-SW-090810-BNT	KIF-ERM4.0-SW-091410-BNT	KIF-ERM4.0-SW-092210-BNT	KIF-ERM4.0-SW-092810-BNT	KIF-ERM4.0-SW-100510-BNT	KIF-ERM4.0-SW-101210-BNT	KIF-ERM4.0-SW-101910-BNT	KIF-ERM8.0-SW-083110-BNT	
Group	Analytical Method	Analyte Name	Units													
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00103	0.00125	0.00108	0.00101	< 0.00078	0.00086	0.00109	0.00113	0.00087	0.00085	0.00106	0.00104	0.00053
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00105	0.0016	0.00147	0.0012	0.00084	0.00132	0.00136	0.00069	0.0007	0.0008	0.00125	0.00083	0.00093
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	0.00047	0.00042	0.00049	0.00037	< 0.00033	0.00043	< 0.00033	< 0.00033	0.00034	< 0.00033	0.00048	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	0.00208	0.0036	0.00361	0.00302	0.00167	0.00264	0.00278	0.00131	< 0.001	0.00144	0.0028	0.00177	< 0.001
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	132	126	139	143	133	134	134	134	129	123	135	140	130
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	160	145	164	180	151	155	158	156	156	145	153	174	153
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	< 24.4	37.3	26.3	29.6	13.1	27.1	20.2	7.6	< 11	12.2	29.1	17.5	8.5
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.98	2.2	1.82	1.62	1.87	1.74	1.74	1.77	2.01	2.21	2.02	1.67	3.01
Rads	EPA 901.1	Actinium-228	pCi/L	< 12.8	--	--	--	--	--	--	< 16.8	< 10.6	--	--	--	--
Rads	EPA 901.1	Americium-241	pCi/L	< 18.4	--	--	--	--	--	--	< 27.3	< 10.9	--	--	--	--
Rads	EPA 901.1	Bismuth-214	pCi/L	< 9.8	--	--	--	--	--	--	< 8.14	< 9.9	--	--	--	--
Rads	EPA 901.1	Cesium-137	pCi/L	< 3.31	--	--	--	--	--	--	< 3.73	< 2.89	--	--	--	--
Rads	EPA 901.1	Cobalt-60	pCi/L	< 3.31	--	--	--	--	--	--	< 2.94	< 2.65	--	--	--	--
Rads	EPA 901.1	Lead-212	pCi/L	< 7.01	--	--	--	--	--	--	< 7.47	< 5.51	--	--	--	--
Rads	EPA 901.1	Lead-214	pCi/L	< 8.79	--	--	--	--	--	--	< 9.34	< 6.84	--	--	--	--
Rads	EPA 901.1	Potassium-40	pCi/L	< 46.3	--	--	--	--	--	--	< 46.1	< 41.1	--	--	--	--
Rads	EPA 901.1	Thallium-208	pCi/L	< 3.39	--	--	--	--	--	--	< 3.9	< 3.23	--	--	--	--
Rads	EPA 901.1	Thorium-234	pCi/L	< 186	--	--	--	--	--	--	< 248	< 114	--	--	--	--
Rads	EPA 903.1	Radium-226	pCi/L	< 0.734	--	--	--	--	--	--	0.369	< 1.01	--	--	--	--
Rads	EPA 904.0	Radium-228	pCi/L	3.27	--	--	--	--	--	--	< 0.79	< 0.672	--	--	--	--
Rads	HASL300 Th	Thorium-228	pCi/L	< 0.0993	--	--	--	--	--	--	< 0.0841	< 0.091	--	--	--	--
Rads	HASL300 Th	Thorium-230	pCi/L	< 0.0675	--	--	--	--	--	--	< 0.0437	< 0.0659	--	--	--	--
Rads	HASL300 Th	Thorium-232	pCi/L	< 0.0421	--	--	--	--	--	--	< 0.0131	< 0.0411	--	--	--	--
Rads	HASL300 U	Uranium-234	pCi/L	0.137	--	--	--	--	--	--	0.273	0.105	--	--	--	--
Rads	HASL300 U	Uranium-235	pCi/L	< 0.135	--	--	--	--	--	--	< 0.0694	< 0.0784	--	--	--	--
Rads	HASL300 U	Uranium-238	pCi/L	0.182	--	--	--	--	--	--	0.126	< 0.101	--	--	--	--
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	0.00147	0.00145	--	--	--	--	--	--	0.0011	0.00129	--
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	0.00084	0.000703	--	--	--	--	--	--	0.000869	0.000507	--
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	0.00231	0.00215	--	--	--	--	--	--	0.00197	0.00178	--
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	0.00132	0.000422	--	--	--	--	--	--	0.000668	0.000504	--
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	0.00363	0.00257	--	--	--	--	--	--	0.00264	0.00211	--
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	0.000467	0.000619	--	--	--	--	--	--	0.000498	0.000767	--
speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	< 0.000157	0.000286	--	--	--	--	--	--	< 0.000157	0.000345	--
speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285	--
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	< 0.000285	0.000286	--	--	--	--	--	--	< 0.000285	0.000345	--
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	0.000467	< 0.000388	--	--	--	--	--	--	0.000498	0.000468	--

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: small;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location Unit	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	ER_R	TR_B	TR_B	TR_B	TR_B	TR_B	TR_B	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	ERM8.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0	TRM566.0
		Sample Date	09/08/2010	09/14/2010	09/22/2010	09/28/2010	10/05/2010	10/13/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010		
		Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		Unique Sample ID	KIF-ERM8.0-SW-090810-BNT	KIF-ERM8.0-SW-091410-BNT	KIF-ERM8.0-SW-092210-BNT	KIF-ERM8.0-SW-092810-BNT	KIF-ERM8.0-SW-100510-BNT	KIF-ERM8.0-SW-101310-BNT	KIF-ERM8.0-SW-101910-BNT	KIF-TRM566.0-SW-083110-BNT	KIF-TRM566.0-SW-090810-BNT	KIF-TRM566.0-SW-091410-BNT	KIF-TRM566.0-SW-092110-BNT	KIF-TRM566.0-SW-092910-BNT	KIF-TRM566.0-SW-100510-BNT		
Group	Analytical Method	Analyte Name	Units														
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00059	0.00064	0.00059	0.00062	0.00064	0.00072	0.00072	0.00064	0.0006	0.00063	0.00039	0.00051	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00051	0.0006	0.00068	0.00046	0.00063	0.00053	0.00053	0.00077	0.00077	0.00074	0.00058	0.00037	0.00073	
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00192	0.00223	0.00164	0.00148	< 0.001	0.00135	
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	0.000151	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	126	128	126	126	113	109	118	133	126	127	129	97.1	87.8	
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	139	149	144	145	142	138	157	159	143	151	149	126	113	
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	11.8	7.1	8.6	< 6.3	5.8	3.6	7.5	20.6	20	15.8	19.9	5.8	20	
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.74	1.92	1.84	2.02	2.14	2.23	1.95	1.68	< 1.82	1.89	1.72	1.89	2.11	
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	< 11.7	< 17.5	--	--	--	--	--	--	< 10.5	< 14.1	--	
Rads	EPA 901.1	Americium-241	pCi/L	--	--	< 10.9	< 24.4	--	--	--	--	--	--	< 4.28	< 17.5	--	
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	< 7.23	< 9.47	--	--	--	--	--	--	< 6.19	< 8.79	--	
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	< 2.81	< 4.08	--	--	--	--	--	--	< 4.27	< 3.53	--	
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	< 2.54	< 4.18	--	--	--	--	--	--	< 3.12	< 3.79	--	
Rads	EPA 901.1	Lead-212	pCi/L	--	--	< 5.59	< 8.44	--	--	--	--	--	--	< 4.79	< 6.32	--	
Rads	EPA 901.1	Lead-214	pCi/L	--	--	< 7.12	< 10.1	--	--	--	--	--	--	< 5.4	< 8.37	--	
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	< 41.5	< 54.8	--	--	--	--	--	--	< 35.6	< 42.9	--	
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	< 3.54	< 4.29	--	--	--	--	--	--	< 2.91	< 3.45	--	
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	< 111	< 248	--	--	--	--	--	--	< 61.3	< 179	--	
Rads	EPA 903.1	Radium-226	pCi/L	--	--	< 0.349	< 0.475	--	--	--	--	--	--	< 0.582	< 0.494	--	
Rads	EPA 904.0	Radium-228	pCi/L	--	--	< 0.799	< 0.54	--	--	--	--	--	--	< 0.537	< 0.992	--	
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	< 0.107	< 0.144	--	--	--	--	--	--	< 0.0867	< 0.127	--	
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	< 0.0771	< 0.0976	--	--	--	--	--	--	< 0.0616	< 0.0574	--	
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	< 0.0888	< 0.0973	--	--	--	--	--	--	< 0.0614	< 0.0573	--	
Rads	HASL300 U	Uranium-234	pCi/L	--	--	0.206	< 0.138	--	--	--	--	--	--	0.199	< 0.252	--	
Rads	HASL300 U	Uranium-235	pCi/L	--	--	< 0.0826	< 0.134	--	--	--	--	--	--	< 0.119	< 0.269	--	
Rads	HASL300 U	Uranium-238	pCi/L	--	--	< 0.123	0.13	--	--	--	--	--	--	< 0.0963	< 0.218	--	
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	--	--	--	--	--	0.000085	0.000086	--	--	--	--	--	--	
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	--	--	--	--	--	0.000225	0.000183	--	--	--	--	--	--	
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.000311	0.000269	--	--	--	--	--	--	
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	--	--	--	--	--	0.000284	0.000353	--	--	--	--	--	--	
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	0.000595	0.000622	--	--	--	--	--	--	
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	--	--	--	--	--	< 0.000388	< 0.000388	--	--	--	--	--	--	
speciation	FGS-129	Selenate, Dissolved	mg/L	--	--	--	--	--	< 0.000157	< 0.000157	--	--	--	--	--	--	
speciation	FGS-129	Selenite, Dissolved	mg/L	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	--	--	--	--	--	< 0.000285	< 0.000285	--	--	--	--	--	--	
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	--	--	--	--	--	< 0.000388	< 0.000388	--	--	--	--	--	--	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic <div style="border: 1px solid black; padding: 5px; font-size: small;"> Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only </div>		Location Unit		TR_B	TR_B	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	
		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	TRM566.0	TRM566.0	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5
		Sample Date	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010		
		Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		Unique Sample ID		KIF-TRM566.0	KIF-TRM566.0	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	KIF-TRM568.5	
				SW-101210-	SW-101910-	SW-083110-	SW-090810-	SW-091410-	SW-092110-	SW-092910-	SW-100510-	SW-101210-	SW-101910-	
				BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	
Group	Analytical Method	Analyte Name	Units											
Inorganic-Dissolved	EPA 200.7/SW846 6010	Aluminum, Dissolved	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Barium, Dissolved	mg/L	0.0286	0.0329	0.0347	0.0344	0.0357	0.0344	0.0364	0.023	0.0375	0.0317	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Boron, Dissolved	mg/L	0.0181	0.0196	0.0156	0.016	0.0173	0.0159	0.0183	< 0.0125	0.0219	0.0171	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Calcium, Dissolved	mg/L	25.3	31.1	35.6	35.7	36.2	36.3	35.5	19.7	36.7	30.2	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Iron, Dissolved	mg/L	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Magnesium, Dissolved	mg/L	6.79	8.69	10.3	10.3	10.1	10.5	9.94	4.84	10.5	8.36	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Potassium, Dissolved	mg/L	1.54	1.58	1.55	1.51	1.52	1.51	1.52	1.62	1.52	1.61	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Sodium, Dissolved	mg/L	7.61	7.29	6.2	6.57	6.56	6.5	6.7	8.31	6.93	7.44	
Inorganic-Dissolved	EPA 200.7/SW846 6010	Strontium, Dissolved	mg/L	0.0851	0.0972	0.105	0.111	0.109	0.107	0.104	0.0735	0.114	0.0943	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Antimony, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Arsenic, Dissolved	mg/L	0.00073	0.00091	0.00083	0.00072	0.00098	0.00091	0.00112	< 0.00033	0.00113	0.00076	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Beryllium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cadmium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Chromium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Cobalt, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Copper, Dissolved	mg/L	0.00038	0.00062	0.00243	0.00062	0.00091	< 0.0005	0.00081	< 0.00033	0.00075	0.0006	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Lead, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Manganese, Dissolved	mg/L	0.00444	0.0133	0.0518	0.0167	0.0114	0.0238	0.0131	0.00206	0.00918	0.00799	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Molybdenum, Dissolved	mg/L	0.00062	0.00054	0.00045	0.00053	0.00077	0.00044	0.00091	< 0.00033	0.00096	0.00059	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Nickel, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00054	< 0.00033	< 0.00033	< 0.00033	0.00041	< 0.00033	< 0.00033	0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Selenium, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00039	< 0.00033	0.00045	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Silver, Dissolved	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Thallium, Dissolved	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Vanadium, Dissolved	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00111	< 0.001	< 0.001	< 0.001	
Inorganic-Dissolved	EPA 200.8/SW846 6020	Zinc, Dissolved	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	
Inorganic-Dissolved	EPA 218.6	Hex. Chromium, Dissolved	mg/L	--	--	--	--	--	0.0016	--	--	--	--	
Inorganic-Dissolved	EPA 245.1/SW846 7470	Mercury, Dissolved	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	
Inorganic-Total	EPA 200.7/SW846 6010	Aluminum, Total	mg/L	0.17	0.288	0.305	0.315	0.186	0.206	0.269	0.13	0.22	0.152	
Inorganic-Total	EPA 200.7/SW846 6010	Barium, Total	mg/L	0.0314	0.0384	0.0401	0.0386	0.0406	0.0393	0.041	0.026	0.0415	0.0339	
Inorganic-Total	EPA 200.7/SW846 6010	Boron, Total	mg/L	0.015	0.0165	0.0151	0.0156	0.0155	0.0159	0.0207	0.0132	0.0215	0.0167	
Inorganic-Total	EPA 200.7/SW846 6010	Calcium, Total	mg/L	25.5	31.4	36	36	37.5	37.2	35.9	20.2	37	29.6	
Inorganic-Total	EPA 200.7/SW846 6010	Iron, Total	mg/L	0.164	0.299	0.326	0.304	0.194	0.249	0.25	0.187	0.217	0.167	
Inorganic-Total	EPA 200.7/SW846 6010	Magnesium, Total	mg/L	6.89	8.76	10.6	10.5	10.6	10.8	10.1	5.01	10.7	8.23	
Inorganic-Total	EPA 200.7/SW846 6010	Potassium, Total	mg/L	1.62	1.65	1.62	1.55	1.58	1.58	1.58	1.7	1.58	1.61	
Inorganic-Total	EPA 200.7/SW846 6010	Sodium, Total	mg/L	7.92	7.32	6.3	6.61	6.65	6.6	6.76	8.38	7.11	7.32	
Inorganic-Total	EPA 200.7/SW846 6010	Strontium, Total	mg/L	0.0881	0.0993	0.107	0.112	0.113	0.11	0.107	0.0746	0.117	0.0934	
Inorganic-Total	EPA 200.8/SW846 6020	Antimony, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Arsenic, Total	mg/L	0.00055	0.00118	0.00116	0.001	0.00121	0.00124	0.00147	0.00044	0.00114	0.00082	
Inorganic-Total	EPA 200.8/SW846 6020	Beryllium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cadmium, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Chromium, Total	mg/L	< 0.00033	0.00039	< 0.00047	0.00039	< 0.00033	< 0.00033	0.0004	< 0.00033	0.00035	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Cobalt, Total	mg/L	< 0.00033	< 0.00033	0.00038	< 0.00033	< 0.00033	< 0.00033	0.00042	< 0.00033	< 0.00033	< 0.00033	
Inorganic-Total	EPA 200.8/SW846 6020	Copper, Total	mg/L	0.0006	0.00143	0.00158	0.00125	0.00152	0.00132	0.00166	0.00056	0.00145	0.00121	
Inorganic-Total	EPA 200.8/SW846 6020	Lead, Total	mg/L	< 0.00033	0.00059	0.00066	0.00046	< 0.00034	0.00045	0.0006	< 0.00033	0.00038	0.00034	
Inorganic-Total	EPA 200.8/SW846 6020	Manganese, Total	mg/L	0.0803	0.102	0.122	0.0799	0.0705	0.113	0.083	0.0805	0.0718	0.0619	

APPENDIX D-2: ANALYTICAL RESULTS - EPIBENTHIC SURFACE WATER

Epibenthic		Location Unit		TR_B	TR_B	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R	TR_R
Notes: - Field duplicates processed - Max of HYP and EPI processed - Validation qualifiers not shown, only "<" for NDs - Ready for ProUCL pre-processor - 8- wk Sept - Oct 2010 sampling event only		Year	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010	2010
		Location	TRM566.0	TRM566.0	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5	TRM568.5
		Sample Date	10/12/2010	10/19/2010	08/31/2010	09/08/2010	09/14/2010	09/21/2010	09/29/2010	10/05/2010	10/12/2010	10/19/2010	
		Depth Interval	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT	BNT
		Unique Sample ID	KIF-TRM566.0-SW-101210-BNT	KIF-TRM566.0-SW-101910-BNT	KIF-TRM568.5-SW-083110-BNT	KIF-TRM568.5-SW-090810-BNT	KIF-TRM568.5-SW-091410-BNT	KIF-TRM568.5-SW-092110-BNT	KIF-TRM568.5-SW-092910-BNT	KIF-TRM568.5-SW-100510-BNT	KIF-TRM568.5-SW-101210-BNT	KIF-TRM568.5-SW-101910-BNT	
Group	Analytical Method	Analyte Name	Units										
Inorganic-Total	EPA 200.8/SW846 6020	Molybdenum, Total	mg/L	0.00065	0.00061	0.00046	0.00063	0.00075	0.00037	0.00087	< 0.00033	0.00086	0.00061
Inorganic-Total	EPA 200.8/SW846 6020	Nickel, Total	mg/L	0.00034	0.00061	0.00055	< 0.00033	0.00067	0.00053	0.00079	0.00057	0.00063	0.00045
Inorganic-Total	EPA 200.8/SW846 6020	Selenium, Total	mg/L	< 0.00033	0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	0.00043	< 0.00033	0.00055	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Silver, Total	mg/L	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033	< 0.00033
Inorganic-Total	EPA 200.8/SW846 6020	Thallium, Total	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Inorganic-Total	EPA 200.8/SW846 6020	Vanadium, Total	mg/L	< 0.001	0.00147	0.00136	0.00119	0.00153	0.0012	0.00174	< 0.001	0.00149	< 0.001
Inorganic-Total	EPA 200.8/SW846 6020	Zinc, Total	mg/L	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083
Inorganic-Total	EPA 245.1/SW846 7470	Mercury, Total	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Physical Properties	SM 2340	Hardness (As CaCO3)	mg/L	92.1	115	133	133	137	137	131	71.1	136	108
Physical Properties	SM 2540C	Total Dissolved Solids	mg/L	127	134	162	155	158	157	155	93	167	127
Physical Properties	SM 2540D	Total Suspended Solids	mg/L	7.4	21.3	14	11.5	10.2	16.3	14.6	8.1	13.9	9.3
Physical Properties	SM5310B	Dissolved Organic Carbon	mg/L	1.85	1.8	1.61	< 1.82	1.84	1.72	1.91	2.01	1.66	1.94
Rads	EPA 901.1	Actinium-228	pCi/L	--	--	--	--	--	< 12.2	< 15.5	--	--	--
Rads	EPA 901.1	Americium-241	pCi/L	--	--	--	--	--	< 11.1	< 24.1	--	--	--
Rads	EPA 901.1	Bismuth-214	pCi/L	--	--	--	--	--	< 7.52	< 10.7	--	--	--
Rads	EPA 901.1	Cesium-137	pCi/L	--	--	--	--	--	< 3.19	< 4.09	--	--	--
Rads	EPA 901.1	Cobalt-60	pCi/L	--	--	--	--	--	< 3.27	< 3.86	--	--	--
Rads	EPA 901.1	Lead-212	pCi/L	--	--	--	--	--	< 6.79	< 8.54	--	--	--
Rads	EPA 901.1	Lead-214	pCi/L	--	--	--	--	--	< 7.06	< 20.7	--	--	--
Rads	EPA 901.1	Potassium-40	pCi/L	--	--	--	--	--	< 37.2	< 50.4	--	--	--
Rads	EPA 901.1	Thallium-208	pCi/L	--	--	--	--	--	< 3.24	< 4.7	--	--	--
Rads	EPA 901.1	Thorium-234	pCi/L	--	--	--	--	--	< 123	< 245	--	--	--
Rads	EPA 903.1	Radium-226	pCi/L	--	--	--	--	--	< 0.575	< 0.464	--	--	--
Rads	EPA 904.0	Radium-228	pCi/L	--	--	--	--	--	< 0.424	< 0.967	--	--	--
Rads	HASL300 Th	Thorium-228	pCi/L	--	--	--	--	--	< 0.108	< 0.149	--	--	--
Rads	HASL300 Th	Thorium-230	pCi/L	--	--	--	--	--	< 0.0847	< 0.163	--	--	--
Rads	HASL300 Th	Thorium-232	pCi/L	--	--	--	--	--	< 0.0528	< 0.08	--	--	--
Rads	HASL300 U	Uranium-234	pCi/L	--	--	--	--	--	< 0.0952	0.297	--	--	--
Rads	HASL300 U	Uranium-235	pCi/L	--	--	--	--	--	< 0.0736	< 0.158	--	--	--
Rads	HASL300 U	Uranium-238	pCi/L	--	--	--	--	--	< 0.0596	< 0.204	--	--	--
speciation	EPA 1632 Mod	Arsenate, Dissolved	mg/L	0.000366	0.000712	--	--	--	--	--	--	0.000644	0.000456
speciation	EPA 1632 Mod	Arsenite, Dissolved	mg/L	0.000129	0.000165	--	--	--	--	--	--	0.000186	0.000105
speciation	EPA 1632 Mod	Inorganic Arsenic, Dissolved	mg/L	0.000494	0.000877	--	--	--	--	--	--	0.00083	0.000561
speciation	EPA 1632 Mod	Organic Arsenic, Dissolved	mg/L	0.000341	0.00018	--	--	--	--	--	--	0.000375	0.000286
speciation	EPA 1638 Mod	Arsenic, Dissolved (from speciation lab)	mg/L	0.000835	0.00106	--	--	--	--	--	--	0.0012	0.000847
speciation	EPA 1638 Mod	Selenium, Dissolved (from speciation lab)	mg/L	< 0.000388	< 0.000388	--	--	--	--	--	--	0.000776	< 0.000388
speciation	FGS-129	Selenate, Dissolved	mg/L	< 0.000157	< 0.000157	--	--	--	--	--	--	0.000327	< 0.000157
speciation	FGS-129	Selenite, Dissolved	mg/L	< 0.000285	< 0.000285	--	--	--	--	--	--	< 0.000285	< 0.000285
speciation	FGS-129/EPA 1638 Mod	Inorganic Selenium, Dissolved	mg/L	< 0.000285	< 0.000285	--	--	--	--	--	--	0.000327	< 0.000285
speciation	FGS-129/EPA 1638 Mod	Organic Selenium, Dissolved	mg/L	< 0.000388	< 0.000388	--	--	--	--	--	--	0.000449	< 0.000388