



Table 5 (continued). QA/QC: Field Replicates
Surface Water Analysis Results (mg/L)

Station	Station	Station	RPD	Station	Station	Station	RPD
Date	Date	Date	%	Date	Date	Date	%
7/7/2005	7/7/2005	7/7/2005		7/7/2005	7/7/2005	7/7/2005	
Physical Tests				Dissolved Anions			
Conductivity (uS/cm)	56.1	56.8	1%	Alkalinity-Total CaCO ₃	11.4	11.2	2%
Total Dissolved Solids	25.5	25.2	1%	Chloride Cl	<0.50	<0.50	0%
Hardness CaCO ₃	20.8	20.3	2%	Sulphate SO ₄	14.3	14.5	1%
pH	6.83	6.83	0%				
Total Suspended Solids	<4.0	<4.0	0%				
Turbidity (NTU)	0.34	0.60	55%				
Nutrients				Organic Parameters			
Ammonia Nitrogen N	<0.0050	<0.0050	0%	Dissolved Organic Carbon C	1.99	1.99	0%
Total Kjeldahl Nitrogen N	0.183	0.175	4%	Total Organic Carbon C	2.25	2.23	1%
Nitrate Nitrogen N	<0.0050	0.0050	0%				
Nitrite Nitrogen N	<0.0050	<0.0050	0%				
Nitrite/Nitrate Nitrogen N	<0.0071	<0.0071	0%				
Dissolved ortho-Phosphate P	<0.0010	<0.0010	0%				
Total Phosphate P	<0.0020	<0.0020	0%				
Total Metals				Dissolved Metals			
Aluminum T-Al	0.0272	0.0219	22%	Aluminum D-Al	0.0175	0.0143	20%
Antimony T-Sb	<0.00010	<0.00010	0%	Antimony D-Sb	<0.00010	<0.00010	0%
Arsenic T-As	<0.00010	<0.00010	0%	Arsenic D-As	<0.00010	<0.00010	0%
Barium T-Ba	0.00460	0.00442	4%	Barium D-Ba	0.00479	0.00439	0%
Beryllium T-Be	<0.00050	<0.00050	0%	Beryllium D-Be	<0.00050	<0.00050	0%
Bismuth T-Bi	<0.00050	<0.00050	0%	Bismuth D-Bi	<0.00050	<0.00050	0%
Boron T-B	<0.010	<0.010	0%	Boron D-B	<0.010	<0.010	0%
Cadmium T-Cd	0.000076	0.000086	12%	Cadmium D-Cd	0.000079	0.000073	8%
Calcium T-Ca	5.67	5.55	2%	Calcium D-Ca	5.62	5.48	3%
Chromium T-Cr	<0.00050	<0.00050	0%	Chromium D-Cr	<0.00050	<0.00050	0%
Cobalt T-Co	0.00020	0.00018	11%	Cobalt D-Co	0.00021	0.00019	10%
Copper T-Cu	0.0327	0.0318	3%	Copper D-Cu	0.0289	0.0264	9%
Iron T-Fe	0.031	<0.030	0%	Iron D-Fe	<0.030	<0.030	0%
Lead T-Pb	<0.000050	<0.000050	0%	Lead D-Pb	0.000189	0.00005	116%
Lithium T-Li	<0.0050	<0.0050	0%	Lithium D-Li	<0.0050	<0.0050	0%
Magnesium T-Mg	1.70	1.64	4%	Magnesium D-Mg	1.65	1.61	2%
Manganese T-Mn	0.00493	0.00479	3%	Manganese D-Mn	0.00470	0.00447	5%
Mercury T-Hg	<0.000050	<0.000050	0%	Mercury D-Hg	<0.000050	<0.000050	0%
Molybdenum T-Mo	<0.000050	<0.000050	0%	Molybdenum D-Mo	<0.000050	<0.000050	0%
Nickel T-Ni	0.00063	0.00065	3%	Nickel D-Ni	0.00073	0.00065	12%
Phosphorus T-P	<0.30	<0.30	0%	Phosphorus D-P	<0.30	<0.30	0%
Potassium T-K	0.854	0.818	4%	Potassium D-K	0.863	0.818	5%
Silicon T-Si	0.474	0.471	1%	Silicon D-Si	0.495	0.447	10%
Silver T-Ag	<0.000010	<0.000010	0%	Silver D-Ag	<0.000010	<0.000010	0%
Sodium T-Na	0.569	0.563	1%	Sodium D-Na	0.755	0.566	29%
Strontium T-Sr	0.00858	0.00821	4%	Strontium D-Sr	0.00842	0.00816	3%
Thallium T-Tl	<0.00010	<0.00010	0%	Thallium D-Tl	<0.00010	<0.00010	0%
Tin T-Sn	<0.00010	<0.00010	0%	Tin D-Sn	<0.00010	0.00012	0%
Titanium T-Ti	<0.010	<0.010	0%	Titanium D-Ti	<0.010	<0.010	0%
Uranium T-U	0.000014	0.000014	0%	Uranium D-U	<0.000010	0.000011	0%
Vanadium T-V	<0.0010	<0.0010	0%	Vanadium D-V	<0.0010	<0.0010	0%
Zinc T-Zn	0.0139	0.0142	2%	Zinc D-Zn	0.0201	0.0137	38%



Table 6. QA/QC: Lab Duplicates
Surface Water Analysis Results (mg/L)

Station	Cleaver Lake	Cleaver Lake	Cleaver Lake	RPD	Station	Cleaver Lake	Cleaver Lake	Cleaver Lake	RPD
Date	08/20/05	08/20/05	08/20/05	%	Date	08/20/05	08/20/05	08/20/05	%
Physical Tests					Dissolved Anions				
Conductivity (uS/cm)	185	186	-	1%	Alkalinity-Total CaCO ₃	9.6	9.8	-	2%
Total Dissolved Solids	83.9	<1.0	-	>100%	Chloride Cl	13.2	13.2	-	0%
pH	6.58	6.58	-	0%	Sulphate SO ₄	43.0	43.2	-	0%
Total Suspended Solids	<4.0	<4.0	-	0%					
Turbidity (NTU)	0.49	0.45	-	9%					
Nutrients					Organic Parameters				
Ammonia Nitrogen N	<0.0050	<0.0050	-	0%	Dissolved Organic Carbon C	1.12	-	1.15	3%
Total Kjeldahl Nitrogen N	0.112	-	0.104	7%	Total Organic Carbon C	1.42	-	1.32	7%
Nitrate Nitrogen N	<0.0050	<0.0050	-	0%					
Nitrite Nitrogen N	<0.0050	<0.0050	-	0%					
Nitrite/Nitrate Nitrogen N	<0.0071	<0.0071	-	0%					
Dissolved ortho-Phosphate P	<0.0010	<0.0010	-	0%					
Total Phosphate P	<0.0020	<0.0020	-	0%					
Total Metals					Dissolved Metals				
Aluminum T-Al	0.0261	-	0.0241	8%	Aluminum D-Al	0.0121	-	0.0120	1%
Antimony T-Sb	<0.00010	-	<0.00010	0%	Antimony D-Sb	<0.00010	-	<0.00010	0%
Arsenic T-As	<0.00010	-	<0.00010	0%	Arsenic D-As	<0.00010	-	<0.00010	0%
Barium T-Ba	0.0118	-	0.0119	1%	Barium D-Ba	0.0119	-	0.0120	1%
Beryllium T-Be	<0.00050	-	<0.00050	0%	Beryllium D-Be	<0.00050	-	<0.00050	0%
Bismuth T-Bi	<0.00050	-	<0.00050	0%	Bismuth D-Bi	<0.00050	-	<0.00050	0%
Boron T-B	<0.010	-	<0.010	0%	Boron D-B	<0.010	-	<0.010	0%
Cadmium T-Cd	0.00699	-	0.00696	0%	Cadmium D-Cd	0.00694	-	0.00701	1%
Calcium T-Ca	19.6	-	19.5	1%	Calcium D-Ca	19.7	-	19.9	1%
Chromium T-Cr	<0.00050	-	<0.00050	0%	Chromium D-Cr	<0.00050	-	<0.00050	0%
Cobalt T-Co	0.00031	-	0.00031	0%	Cobalt D-Co	0.00032	-	0.00031	3%
Copper T-Cu	0.0177	-	0.0176	1%	Copper D-Cu	0.0131	-	0.0130	1%
Lead T-Pb	0.00118	-	0.00118	0%	Lead D-Pb	0.000352	-	0.000351	0%
Lithium T-Li	<0.0050	-	<0.0050	0%	Lithium D-Li	<0.0050	-	<0.0050	0%
Magnesium T-Mg	3.25	-	3.25	0%	Magnesium D-Mg	3.29	-	3.33	1%
Manganese T-Mn	0.00891	-	0.00879	1%	Manganese D-Mn	0.00867	-	0.00889	3%
Molybdenum T-Mo	<0.000050	-	<0.000050	0%	Molybdenum D-Mo	<0.000050	-	<0.000050	0%
Nickel T-Ni	0.00457	-	0.00453	1%	Nickel D-Ni	0.00464	-	0.00463	0%
Potassium T-K	1.15	-	1.14	1%	Potassium D-K	1.15	-	1.16	3%
Silicon T-Si	<0.0010	-	<0.0010	0%	Silicon D-Si	<0.0010	-	<0.0010	0%
Silver T-Ag	0.000020	-	0.000020	0%	Silver D-Ag	0.000014	-	0.000013	7%
Sodium T-Na	0.878	-	0.874	0%	Sodium D-Na	1.01	-	1.04	3%
Strontium T-Sr	0.0849	-	0.0845	0%	Strontium D-Sr	0.0834	-	0.0850	3%
Thallium T-Tl	<0.00010	-	<0.00010	0%	Thallium D-Tl	<0.00010	-	<0.00010	0%
Tin T-Sn	<0.00010	-	<0.00010	0%	Tin D-Sn	<0.00010	-	<0.00010	0%
Uranium T-U	0.000018	-	0.000017	6%	Uranium D-U	<0.000010	-	<0.000010	0%
Vanadium T-V	<0.0010	-	<0.0010	0%	Vanadium D-V	<0.0010	-	<0.0010	0%
Zinc T-Zn	1.10	-	1.09	1%	Zinc D-Zn	1.14	-	1.14	0%



Table 6 (continued). QA/QC: Lab Duplicates
Surface Water Analysis Results (mg/L)

Station	Blank Replicate	Blank Replicate	Blank Replicate	RPD	Station	Blank Replicate	Blank Replicate	Blank Replicate	RPD
Date	QC-21623	QC-21623	QC-21623	%	Date	QC-21623	QC-21623	QC-21623	%
Physical Tests					Dissolved Anions				
Conductivity (uS/cm)	56.8	57.2	-	1%	Alkalinity-Total CaCO ₃	11.2	11.6	-	4%
Total Dissolved Solids	25.2	<1.0	-	>100%	Chloride Cl	<0.50	<0.50	-	0%
pH	6.83	6.86	-	0%	Sulphate SO ₄	14.5	14.3	-	1%
Total Suspended Solids	<4.0	<4.0	-	0%					
Turbidity (NTU)	0.80	0.67	-	5%					
Nutrients					Organic Parameters				
Ammonia Nitrogen N	<0.0050	<0.0050	-	0%	Dissolved Organic Carbon C	1.99	-	2.03	2%
Total Kjeldahl Nitrogen N	0.175	-	0.169	3%	Total Organic Carbon C	2.23	-	2.19	2%
Nitrate Nitrogen N	0.0050	<0.0050	-	0%					
Nitrite Nitrogen N	<0.0050	<0.0050	-	0%					
Nitrate/Nitrite Nitrogen N	<0.0071	<0.0071	-	0%					
Dissolved ortho-Phosphate P	<0.0010	<0.0010	-	0%					
Total Phosphate P	<0.0020	<0.0020	-	0%					
Total Metals					Dissolved Metals				
Aluminum T-Al	0.0219	-	0.0220	0%	Aluminum D-Al	0.0143	-	0.0139	3%
Antimony T-Sb	<0.00010	-	<0.00010	0%	Antimony D-Sb	<0.00010	-	<0.00010	0%
Arsenic T-As	<0.00010	-	<0.00010	0%	Arsenic D-As	<0.00010	-	<0.00010	0%
Barium T-Ba	0.00442	-	0.00448	1%	Barium D-Ba	0.00439	-	0.00430	2%
Beryllium T-Be	<0.00050	-	<0.00050	0%	Beryllium D-Be	<0.00050	-	<0.00050	0%
Bismuth T-Bi	<0.00050	-	<0.00050	0%	Bismuth D-Bi	<0.00050	-	<0.00050	0%
Boron T-B	<0.010	-	<0.010	0%	Boron D-B	<0.010	-	<0.010	0%
Cadmium T-Cd	0.000086	-	0.000072	18%	Cadmium D-Cd	0.000073	-	0.000069	6%
Calcium T-Ca	5.55	-	5.58	1%	Calcium D-Ca	5.48	-	5.53	1%
Chromium T-Cr	<0.00050	-	<0.00050	0%	Chromium D-Cr	<0.00050	-	0.00055	0%
Cobalt T-Co	0.00016	-	0.00026	11%	Cobalt D-Co	0.00019	-	0.00018	5%
Copper T-Cu	0.0318	-	0.0322	1%	Copper D-Cu	0.0264	-	0.0260	2%
Lead T-Pb	<0.00050	-	<0.00050	0%	Lead D-Pb	<0.00050	-	<0.00050	0%
Lithium T-Li	<0.0050	-	<0.0050	0%	Lithium D-Li	<0.0050	-	<0.0050	0%
Magnesium T-Mg	1.64	-	1.63	1%	Magnesium D-Mg	1.61	-	1.59	1%
Manganese T-Mn	0.00479	-	0.00483	1%	Manganese D-Mn	0.00447	-	0.00444	1%
Molybdenum T-Mo	<0.000050	-	<0.000050	0%	Molybdenum D-Mo	<0.000050	-	<0.000050	0%
Nickel T-Ni	0.00065	-	0.00065	0%	Nickel D-Ni	0.00065	-	0.00062	5%
Potassium T-K	0.818	-	0.837	2%	Potassium D-K	0.818	-	0.808	1%
Silicon T-Si	<0.0010	-	<0.0010	0%	Silicon D-Si	<0.0010	-	<0.0010	0%
Silver T-Ag	<0.000010	-	<0.000010	0%	Silver D-Ag	<0.000010	-	<0.000010	0%
Sodium T-Na	0.563	-	0.563	0%	Sodium D-Na	0.566	-	0.555	2%
Strontium T-Sr	0.00821	-	0.00831	1%	Strontium D-Sr	0.00816	-	0.00818	0%
Thallium T-Tl	<0.00010	-	<0.00010	0%	Thallium D-Tl	<0.00010	-	<0.00010	0%
Tin T-Sn	<0.00010	-	<0.00010	0%	Tin D-Sn	0.00012	-	0.00013	8%
Uranium T-U	0.000014	-	0.000016	13%	Uranium D-U	0.000011	-	0.000011	0%
Vanadium T-V	<0.0010	-	<0.0010	0%	Vanadium D-V	<0.0010	-	<0.0010	0%
Zinc T-Zn	0.0142	-	0.0142	0%	Zinc D-Zn	0.0137	-	0.0137	0%