Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Roberts Lake Bottom				Roberts Outflow			
				25-May-08	15-Jul-08	18-Aug-08	12-Sep-08	19-Jun-08	17-Jul-08	14-Aug-08	12-Sep-08
Physical											
Alkalinity (Total as $CaCO_3$)	mg/L			28.4	18.9	22.0	22.0	18.3	20.1	21.8	21.8
Hardness (Total as $CaCO_3$)	mg/L			50.1	32.6	38.7	40.4	30.9	32.9	40.0	40.7
Specific Conductivity (lab)	µS/cm			305	213	244	265	203	226	245	268
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	6.6	7.5	7.9	7.8	6.8	**8.6**	7.5	8.1
Total Dissolved Solids	mg/L		<500	165.0	102.0	119.0	124.0	97.5	109.0	117.0	123.0
Total Suspended Solids	mg/L			<1	5	<1	2	6	2	2	3
True Colour	TCU		<15	12	13	11	**24**	**35**	**16**	<1	**20**
Nutrients											
Total Phosphorus	µg/L			11	17	15	22	30	14	15	24
Total Kjeldahl Nitrogen	mg/L			0.30	0.29	0.28	0.46	0.40	0.33	0.30	0.41
Ammonia - N	mg/L	0.2 - 122.4		0.008	0.005	0.005	0.009	0.006	0.005	0.012	0.006
Nitrite+Nitrate - N	mg/L			0.008	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Nitrite - N	mg/L	0.06	3.2	0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.006	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	0.005
Organics											
Organic Carbon (particulate)	mg/L			0.16	0.40	0.43	0.88	0.49	0.37	0.46	0.76
Dissolved Organic Carbon	mg/L			4.5	5.0	4.4	5.4	7.3	4.2	4.8	5.5
Total Organic Carbon	mg/L			4.66	5.40	4.83	6.28	7.79	4.57	5.26	6.26
Chlorophyll *a*	µg/L			-	-	-	-	-	-	-	-
Major Ions											
Bicarbonate	mg/L			35	23	27	27	22	25	27	27
Calcium (total)	mg/L			6.82	4.56	5.26	5.76	4.48	4.77	5.45	5.76
Calcium (extractable)	mg/L			7.27	4.52	5.50	5.63	4.40	4.75	5.70	5.66
Calcium (dissolved)	mg/L			6.54	4.29	5.09	5.35	4.26	4.54	5.35	5.53
Chloride	mg/L		<250	78.7	49.7	57.5	62.5	48.2	53.3	57.5	62.3
Magnesium (total)	mg/L			7.88	5.09	6.04	6.71	4.81	5.23	6.10	6.73
Magnesium (extractable)	mg/L			7.75	5.18	6.06	6.39	4.84	5.10	6.27	6.45
Magnesium (dissolved)	mg/L			7.54	4.84	5.98	6.25	4.57	4.98	5.95	6.43
Potassium (total)	mg/L			2.520	1.840	1.960	2.180	2.120	1.820	2.010	2.100
Potassium (extractable)	mg/L			3.0	1.8			1.8	1.8	1.9	1.9
Potassium (dissolved)	mg/L			2.42	1.72	1.89	2.00	1.83	1.71	1.95	1.97
Sodium (total)	mg/L			39.20	25.50	30.00	34.80	23.00	26.30	30.60	33.90
Sodium (extractable)	mg/L			44.5	25.2	31.5	31.8	25.3	26.9	30.7	31.8
Sodium (dissolved)	mg/L			38.10	24.70	29.70	32.60	22.70	25.20	29.80	32.80
Sulfate	mg/L		<500	7	5	<3	<3	<3	5	<3	<3
Anions	meq/L			2.93	1.88	2.13	2.25	1.77	2.01	2.10	2.24
Cations	meq/L			3.01	1.79	2.19	2.24	1.76	1.87	2.18	2.24
Ionic Balance	N/A			1.03	0.95	1.03	1.00	1.00	0.93	1.04	1.00
Total Metals											
Aluminum	µg/L	5, 100		31.7	**170**	62.2	**135**	**668**	**133**	72.7	**117**
Antimony	µg/L		6	0.037	0.013	0.010	0.030	0.015	0.013	0.014	0.014
Arsenic	µg/L	5	10	0.569	0.440	0.511	0.554	0.455	0.443	0.475	0.537
Barium	µg/L		1000	3.31	3.97	3.01	4.29	10.40	3.68	3.15	3.69
Beryllium	µg/L			<0.003	<0.003	<0.003	0.007	0.022	0.005	<0.003	0.005
Bismuth	µg/L			<0.001	0.003	<0.001	<0.001	<0.001	0.002	0.014	<0.001
Boron	µg/L		5000	30.90	20.00	23.70	23.90	19.00	21.70	23.90	24.70
Cadmium	µg/L	0.007 - 0.055	5	<0.002	0.002	<0.002	**0.030**	0.004	<0.002	<0.002	<0.002
Chromium	µg/L	1 or 16	50	0.26	0.42	0.40	0.50	**1.07**	0.30	0.32	0.30
Cobalt	µg/L			0.025	0.072	0.027	0.062	0.275	0.055	0.039	0.046
Copper	µg/L	2 - 4	<1000	1.22	1.56	1.35	**2.11**	1.83	1.52	1.43	1.63
Iron	µg/L	300	<300	41.8	220	76.4	149	**663**	152	92.4	119
Lead	µg/L	1 - 7	10	<0.001	0.069	0.016	0.177	0.215	0.049	0.029	0.083
Manganese	µg/L		<50	15.3	13.8	3.7	5.6	37.5	10.3	5.6	4.1
Mercury	ng/L	26	1000	1.0	1.6	<0.6	<0.6	2.0	<0.6	<0.6	0.7
Molybdenum	µg/L	73		0.200	0.168	0.186	0.215	0.159	0.163	0.171	0.191
Nickel	µg/L	25 - 150		0.438	0.565	0.312	0.691	1.080	0.502	0.519	0.552
Selenium	µg/L	1	10	0.3	0.7	1.0	0.7	0.4	<0.1	0.9	1.0
Silver	µg/L	0.1		0.0036	0.0021	<0.0005	<0.0005	<0.0005	0.0006	0.0011	<0.0005
Strontium	µg/L			47.2	31.0	36.6	39.4	30.0	33.0	36.1	39.0
Thallium	µg/L	0.8		0.0007	0.0040	<0.0003	0.0021	0.0048	0.0021	0.0073	0.0046
Tin	µg/L			0.08	<0.03	<0.03	0.11	<0.03	<0.03	<0.03	<0.03
Uranium	µg/L		20	0.0514	0.0527	0.0442	0.0552	0.0683	0.0463	0.0498	0.0494
Vanadium	µg/L			0.033	0.322	0.155	0.278	1.150	0.247	0.120	0.146
Zinc	µg/L	30, 13 - 198	<5000	<0.1	0.73	0.18	9.42	2.22	0.57	0.48	<0.1
Dissolved Metals											
Aluminum	µg/L			4.0	24.0	12.0	31.2	72.6	16.7	12.4	31.7
Antimony	µg/L			0.036	0.013	0.010	0.029	0.015	0.013	0.014	0.014
Arsenic	µg/L			0.513	0.341	0.470	0.400	0.361	0.357	0.399	0.449
Barium	µg/L			2.73	2.21	2.35	2.85	2.94	2.15	2.29	2.59
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	0.006	<0.003	<0.003	<0.003
Boron	µg/L			28.40	19.10	22.40	22.00	18.10	19.80	22.20	23.60
Cadmium	µg/L			<0.002	<0.002	<0.002	0.013	0.003	<0.002	<0.002	<0.002
Chromium	µg/L			0.26	0.30	0.40	0.40	0.35	0.14	0.32	0.23
Cobalt	µg/L			0.025	0.012	0.015	0.017	0.051	0.010	0.018	0.016
Copper	µg/L			1.21	1.42	1.34	1.48	1.81	1.31	1.42	1.38
Iron	µg/L			16.0	48.3	19.6	30.9	156.0	33.4	23.7	28.9
Lead	µg/L			<0.001	0.013	0.005	0.028	0.048	0.009	0.007	0.006
Manganese	µg/L			12.6	0.9	0.2	0.4	9.0	0.4	0.3	0.2
Molybdenum	µg/L			0.198	0.149	0.175	0.172	0.139	0.162	0.169	0.173
Nickel	µg/L			0.414	0.405	0.287	0.438	0.617	0.366	0.458	0.415
Selenium	µg/L			0.4	0.6	0.8	0.5	0.4	<0.1	0.7	0.9
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			45.9	29.2	35.5	36.5	28.2	31.3	35.7	37.5
Uranium	µg/L			0.0424	0.0384	0.0359	0.0410	0.0476	0.0379	0.0410	0.0399
Vanadium	µg/L			0.032	0.074	0.053	0.128	0.230	0.050	0.075	0.075
Zinc	µg/L			<0.05	0.42	0.18	3.41	2.04	0.32	0.48	<0.05
Radionuclides											
Radium-226	Bq/L										
Other											
Cyanide	mg/L		0.2	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001
Fluoride	mg/L		1.5	0.06	0.04	0.05	0.05	0.02	0.05	0.05	0.06
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Tail Lake Top				Tail Lake Bottom		
				24-May-08	14-Jul-08	18-Aug-08	11-Sep-08	14-Jul-08	18-Aug-08	11-Sep-08
Physical										
Alkalinity (Total as $CaCO_3$)	mg/L			52.0	24.5	25.1	24.9	23.5	25.1	25.1
Hardness (Total as $CaCO_3$)	mg/L			62.9	30.6	32.4	32.5	30.5	31.7	32.8
Specific Conductivity (lab)	µS/cm			275	137	142	143	137	142	143
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.2	7.5	7.9	7.8	7.5	7.9	7.8
Total Dissolved Solids	mg/L		<500	152.0	68.5	70.9	68.7	68.0	70.3	68.2
Total Suspended Solids	mg/L			<1	2	<1	3	1	<1	2
True Colour	TCU		<15	**15**	11	10	**22**	11	10	**22**
Nutrients										
Total Phosphorus	µg/L			15	11	13	15	17	11	12
Total Kjeldahl Nitrogen	mg/L			0.47	0.28	0.28	0.36	0.27	0.28	0.34
Ammonia - N	mg/L	0.2 - 122.4		0.008	0.008	0.006	0.006	0.007	0.005	0.008
Nitrite+Nitrate - N	mg/L			0.005	0.015	<0.005	<0.005	0.013	<0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.004	0.015	<0.005	<0.005	0.013	<0.005	<0.005
Organics										
Organic Carbon (particulate)	mg/L			0.09	0.13	0.38	0.19	0.10	0.19	0.14
Dissolved Organic Carbon	mg/L			8.6	5.5	5.2	6.1	5.9	5.6	6.3
Total Organic Carbon	mg/L			8.69	5.63	5.58	6.29	6.00	5.79	6.44
Chlorophyll *a*	µg/L			-	0.89	0.73	1.33	-	-	-
Major Ions										
Bicarbonate	mg/L			63	30	31	30	29	31	31
Calcium (total)	mg/L			10.90	5.19	5.01	5.26	5.06	5.06	5.37
Calcium (extractable)	mg/L			10.60	5.10	5.35	5.50	5.06	5.23	5.51
Calcium (dissolved)	mg/L			10.30	5.02	4.90	5.23	5.00	4.94	5.07
Chloride	mg/L		<250	59.7	25.6	27.5	26.6	25.5	27.3	26.2
Magnesium (total)	mg/L			9.11	4.39	4.59	4.47	4.29	4.71	4.58
Magnesium (extractable)	mg/L			8.86	4.35	4.62	4.57	4.35	4.52	4.62
Magnesium (dissolved)	mg/L			8.77	4.32	4.46	4.44	4.24	4.56	4.35
Potassium (total)	mg/L			2.620	1.400	1.340	1.330	1.370	1.360	1.350
Potassium (extractable)	mg/L			3.0	1.3		1.3	1.3		1.3
Potassium (dissolved)	mg/L			2.53	1.37	1.30	1.31	1.35	1.33	1.27
Sodium (total)	mg/L			29.70	14.00	13.80	13.70	13.70	14.10	14.00
Sodium (extractable)	mg/L			33.3	13.1	15.0	13.8	13.3	14.8	13.5
Sodium (dissolved)	mg/L			28.00	13.80	13.50	13.50	13.70	13.70	13.40
Sulfate	mg/L		<500	5	4	<3	<3	4	<3	<3
Anions	meq/L			2.83	1.30	1.32	1.29	1.28	1.32	1.29
Cations	meq/L			2.79	1.22	1.33	1.28	1.22	1.31	1.27
Ionic Balance	N/A			0.98	0.93	1.01	0.99	0.95	1.00	0.99
Total Metals										
Aluminum	µg/L	5, 100		7.9	38.8	37.7	57.9	35.0	43.3	60.6
Antimony	µg/L		6	0.213	0.014	0.007	0.010	0.008	0.007	0.011
Arsenic	µg/L	5	10	0.485	0.253	0.254	0.251	0.230	0.266	0.257
Barium	µg/L		1000	2.76	1.86	1.69	1.96	1.74	1.68	2.07
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.003
Bismuth	µg/L			0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	µg/L		5000	26.60	12.90	12.70	12.00	12.80	13.80	12.90
Cadmium	µg/L	0.007 - 0.055	5	<0.002	0.007	0.002	<0.002	0.002	<0.002	0.003
Chromium	µg/L	1 or 16	50	0.26	0.22	0.27	0.26	0.15	0.34	0.25
Cobalt	µg/L			0.015	0.030	0.016	0.024	0.029	0.022	0.025
Copper	µg/L	2 - 4	<1000	1.33	1.54	0.97	1.23	1.05	1.14	1.31
Iron	µg/L	300	<300	90.8	98.2	57.7	61.8	94.1	66.4	65.7
Lead	µg/L	1 - 7	10	<0.001	0.212	0.010	0.017	0.026	0.119	0.046
Manganese	µg/L		<50	3.1	10.5	3.2	2.4	10.2	3.5	2.6
Mercury	ng/L	26	1000	<0.6	<0.6	1.4	<0.6	1.1	<0.6	<0.6
Molybdenum	µg/L	73		0.130	0.094	0.081	0.104	0.079	0.082	0.095
Nickel	µg/L	25 - 150		0.788	0.533	0.256	0.521	0.509	0.557	0.562
Selenium	µg/L	1	10	0.9	0.2	0.7	0.3	<0.1	0.5	0.3
Silver	µg/L	0.1		0.0052	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			45.1	20.1	20.7	20.5	19.9	20.8	20.9
Thallium	µg/L	0.8		0.0006	<0.0003	<0.0003	0.0020	<0.0003	<0.0003	0.0021
Tin	µg/L			0.58	<0.03	<0.03	<0.03	<0.03	<0.03	0.04
Uranium	µg/L		20	0.0295	0.0199	0.0198	0.0210	0.0192	0.0197	0.0235
Vanadium	µg/L			<0.01	0.069	0.067	0.101	0.037	0.083	0.086
Zinc	µg/L	30, 13 - 198	<5000	<0.1	1.69	0.19	0.15	0.75	0.76	1.15
Dissolved Metals										
Aluminum	µg/L			3.5	11.2	10.0	20.6	10.2	9.7	19.2
Antimony	µg/L			0.211	0.014	0.006	0.010	0.008	0.007	0.011
Arsenic	µg/L			0.446	0.229	0.251	0.250	0.223	0.262	0.216
Barium	µg/L			2.61	1.51	1.32	1.46	1.44	1.35	1.47
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron	µg/L			23.90	12.60	11.90	11.80	12.40	12.20	11.70
Cadmium	µg/L			<0.002	0.003	<0.002	<0.002	<0.002	<0.002	0.003
Chromium	µg/L			0.26	0.21	0.27	0.26	0.15	0.34	0.25
Cobalt	µg/L			0.015	0.008	0.015	0.020	0.009	0.014	0.016
Copper	µg/L			1.32	1.28	0.96	1.19	1.04	1.13	1.10
Iron	µg/L			55.9	24.6	20.3	27.3	22.1	18.2	24.5
Lead	µg/L			<0.001	0.030	0.005	0.006	0.005	0.005	0.012
Manganese	µg/L			1.2	0.8	0.3	1.2	0.7	0.4	1.0
Molybdenum	µg/L			0.126	0.073	0.079	0.098	0.072	0.081	0.094
Nickel	µg/L			0.757	0.502	0.253	0.521	0.452	0.527	0.520
Selenium	µg/L			0.8	0.2	0.6	0.3	<0.1	0.5	0.2
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			44.6	19.1	20.1	19.9	19.3	20.3	19.5
Uranium	µg/L			0.0251	0.0137	0.0175	0.0195	0.0141	0.0174	0.0205
Vanadium	µg/L			<0.01	0.068	0.066	0.099	0.037	0.082	0.086
Zinc	µg/L			<0.05	1.11	0.19	0.15	0.54	0.75	0.98
Radionuclides										
Radium-226	Bq/L									
Other										
Cyanide	mg/L		0.2	<0.001	0.003	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L		1.5	<0.01	0.06	0.06	0.06	0.06	0.06	0.06
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Tail Outflow				Glenn Lake Top		
				22-Jun-08	17-Jul-08	14-Aug-08	12-Sep-08	15-Jul-08	18-Aug-08	13-Sep-08
Physical										
Alkalinity (Total as $CaCO_3$)	mg/L			37.3	26.2	27.2	25.8	45.4	47.9	48.0
Hardness (Total as $CaCO_3$)	mg/L			47.1	31.7	38.1	34.7	63.9	68.3	68.6
Specific Conductivity (lab)	µS/cm			221	145	162	152	362	374	379
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.0	7.1	7.1	7.2	7.6	8.2	8.5
Total Dissolved Solids	mg/L		<500	112.0	70.7	78.8	71.8	180.0	185.0	174.0
Total Suspended Solids	mg/L			10	<1	<1	2	3	<1	7
True Colour	TCU		<15	**24**	13	10	**16**	13	11	**20**
Nutrients										
Total Phosphorus	µg/L			15	7	9	8	8	17	26
Total Kjeldahl Nitrogen	mg/L			0.42	0.30	0.30	0.33	0.20	0.23	0.24
Ammonia - N	mg/L	0.2 - 122.4		0.006	0.009	0.006	0.008	0.005	0.008	0.008
Nitrite+Nitrate - N	mg/L			<0.005	<0.005	0.005	0.005	0.024	<0.005	0.005
Nitrite - N	mg/L	0.06	3.2	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	<0.005	<0.005	0.005	0.005	0.024	<0.005	0.005
Organics										
Organic Carbon (particulate)	mg/L			0.15	0.08	0.44	0.27	0.04	0.26	0.18
Dissolved Organic Carbon	mg/L			7.9	5.1	6.0	6.5	3.9	3.6	3.9
Total Organic Carbon	mg/L			8.05	5.18	6.44	6.77	3.94	3.86	4.08
Chlorophyll *a*	µg/L			-	-	-	-	1.02	2.41	1.92
Major Ions										
Bicarbonate	mg/L			45	32	33	31	55	58	59
Calcium (total)	mg/L			8.26	5.53	6.44	6.05	11.40	11.40	12.00
Calcium (extractable)	mg/L			8.31	5.55	6.60	5.95	11.30	12.10	12.00
Calcium (dissolved)	mg/L			8.20	5.27	6.29	5.78	11.00	11.30	11.60
Chloride	mg/L		<250	43.9	27.6	31.1	28.1	75.2	79.8	76.3
Magnesium (total)	mg/L			6.47	4.36	4.93	4.97	8.76	9.15	9.71
Magnesium (extractable)	mg/L			6.40	4.33	5.26	4.82	8.67	9.26	9.39
Magnesium (dissolved)	mg/L			6.36	4.16	4.86	4.76	8.46	9.06	9.12
Potassium (total)	mg/L			2.150	1.320	1.350	1.390	3.450	3.570	3.960
Potassium (extractable)	mg/L			2.1	1.4	1.3	1.3	3.4		3.3
Potassium (dissolved)	mg/L			2.11	1.26	1.32	1.33	3.26	3.37	3.41
Sodium (total)	mg/L			21.50	13.80	15.40	15.40	40.40	41.10	43.20
Sodium (extractable)	mg/L			23.8	14.1	16.1	14.2	41.8	44.5	36.6
Sodium (dissolved)	mg/L			21.30	13.20	15.25	14.80	39.10	40.69	42.30
Sulfate	mg/L		<500	5	<3	<3	<3	12	7	7
Anions	meq/L			2.09	1.35	1.47	1.35	3.28	3.36	3.27
Cations	meq/L			2.03	1.28	1.50	1.34	3.18	3.39	3.05
Ionic Balance	N/A			0.97	0.95	1.02	0.99	0.97	1.01	0.93
Total Metals										
Aluminum	µg/L	5, 100		27.2	11.0	46.0	25.1	**250**	**715**	**1010**
Antimony	µg/L		6	0.012	0.008	0.009	0.007	0.041	0.039	0.047
Arsenic	µg/L	5	10	0.314	0.222	0.379	0.263	0.507	0.673	0.677
Barium	µg/L		1000	2.58	2.05	2.92	1.71	5.54	11.70	15.90
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	0.009	0.020	0.039
Bismuth	µg/L			<0.001	0.006	<0.001	0.002	0.002	<0.001	0.006
Boron	µg/L		5000	18.60	14.10	12.10	12.90	39.10	38.20	38.20
Cadmium	µg/L	0.007 - 0.055	5	0.002	<0.002	0.002	<0.002	0.003	<0.002	0.012
Chromium	µg/L	1 or 16	50	0.25	0.13	0.32	0.22	0.51	**1.24**	**1.82**
Cobalt	µg/L			0.038	0.021	0.085	0.051	0.087	0.225	0.380
Copper	µg/L	2 - 4	<1000	1.26	0.97	0.95	1.09	**2.68**	**2.92**	**3.78**
Iron	µg/L	300	<300	230	71.8	**935**	208	172	**443**	**821**
Lead	µg/L	1 - 7	10	0.020	0.017	0.024	0.007	0.154	0.232	0.421
Manganese	µg/L		<50	2.7	1.7	9.7	5.8	2.8	6.2	11.0
Mercury	ng/L	26	1000	0.8	<0.6	<0.6	0.6	0.8	<0.6	<0.6
Molybdenum	µg/L	73		0.112	0.079	0.086	0.081	0.627	0.664	0.663
Nickel	µg/L	25 - 150		0.869	0.497	0.640	0.501	0.777	0.891	1.470
Selenium	µg/L	1	10	0.5	<0.1	0.6	0.6	0.2	**1.4**	**1.1**
Silver	µg/L	0.1		<0.0005	0.0009	0.0010	<0.0005	0.0019	<0.0005	0.0077
Strontium	µg/L			32.5	22.7	26.6	22.5	60.9	64.9	65.6
Thallium	µg/L	0.8		<0.0003	0.0034	0.0017	0.0022	0.0055	0.0022	0.0162
Tin	µg/L			<0.03	<0.03	<0.03	<0.03	<0.03	0.04	0.05
Uranium	µg/L		20	0.0200	0.0107	0.0162	0.0164	0.2750	0.2660	0.3220
Vanadium	µg/L			0.080	0.072	0.162	0.068	0.551	1.330	2.110
Zinc	µg/L	30, 13 - 198	<5000	1.09	0.79	1.15	<0.1	0.86	1.45	3.58
Dissolved Metals										
Aluminum	µg/L			8.1	5.2	9.1	10.6	31.2	109.0	88.3
Antimony	µg/L			0.012	0.008	0.009	0.007	0.041	0.038	0.046
Arsenic	µg/L			0.295	0.174	0.313	0.236	0.439	0.595	0.590
Barium	µg/L			2.23	1.84	2.29	1.41	3.05	3.99	3.75
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	<0.003	0.006	0.003
Boron	µg/L			18.10	12.10	12.00	12.40	37.20	37.80	36.70
Cadmium	µg/L			<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.006
Chromium	µg/L			0.25	0.13	0.32	0.21	0.44	0.63	0.70
Cobalt	µg/L			0.022	0.015	0.029	0.021	0.017	0.039	0.037
Copper	µg/L			1.25	0.89	0.94	0.94	2.33	2.89	2.60
Iron	µg/L			37.0	29.3	49.1	34.5	14.6	58.5	58.2
Lead	µg/L			0.007	0.010	0.019	<0.001	0.037	0.055	0.066
Manganese	µg/L			0.5	0.5	1.2	0.9	0.4	0.7	0.7
Molybdenum	µg/L			0.108	0.074	0.081	0.080	0.625	0.657	0.661
Nickel	µg/L			0.635	0.469	0.602	0.491	0.560	0.509	0.662
Selenium	µg/L			0.3	<0.1	0.5	0.5	<0.1	1.3	1.1
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			32.1	21.8	26.3	21.5	57.6	62.0	59.6
Uranium	µg/L			0.0156	0.0096	0.0094	0.0123	0.2380	0.2440	0.2610
Vanadium	µg/L			0.079	0.042	0.104	0.067	0.296	0.441	0.511
Zinc	µg/L			1.08	0.61	1.14	<0.05	0.36	1.14	0.94
Radionuclides										
Radium-226	Bq/L							<0.005	<0.005	<0.005
Other										
Cyanide	mg/L		0.2	0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.06	0.07	0.06	0.06	0.07	0.08	0.08
Sulphide	mg/L			<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Glenn Lake Bottom			Glenn Outflow			
				15-Jul-08	18-Aug-08	13-Sep-08	20-Jun-08	17-Jul-08	19-Aug-08	13-Sep-08
Physical										
Alkalinity (Total as $CaCO_3$)	mg/L			54.2	48.0	48.0	31.8	43.4	48.5	48.2
Hardness (Total as $CaCO_3$)	mg/L			76.7	69.1	68.7	47.3	61.0	70.9	69.2
Specific Conductivity (lab)	µS/cm			436	375	381	238	345	378	381
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.6	8.2	8.5	6.8	7.8	8.1	8.3
Total Dissolved Solids	mg/L		<500	215.0	187.0	180.0	129.0	169.0	186.0	180.0
Total Suspended Solids	mg/L			2	3	7	1	8	2	7
True Colour	TCU		<15	13	**15**	**20**	**46**	**16**	**16**	**20**
Nutrients										
Total Phosphorus	µg/L			9	19	27	15	21	17	21
Total Kjeldahl Nitrogen	mg/L			0.20	0.22	0.24	0.40	0.26	0.24	0.24
Ammonia - N	mg/L	0.2 - 122.4		0.005	0.008	0.006	0.008	0.008	0.006	0.007
Nitrite+Nitrate - N	mg/L			0.039	0.006	0.005	<0.005	<0.005	<0.005	0.009
Nitrite - N	mg/L	0.06	3.2	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.038	0.006	0.005	<0.005	<0.005	<0.005	0.009
Organics										
Organic Carbon (particulate)	mg/L			0.03	0.22	0.27	0.29	0.15	0.18	0.19
Dissolved Organic Carbon	mg/L			4.4	3.6	4.2	6.4	3.4	3.7	3.9
Total Organic Carbon	mg/L			4.43	3.82	4.47	6.69	3.55	3.88	4.09
Chlorophyll *a*	µg/L			-	-	-	-	-	-	-
Major Ions										
Bicarbonate	mg/L			66	58	59	39	53	59	59
Calcium (total)	mg/L			13.40	12.20	11.30	8.51	10.40	12.40	11.80
Calcium (extractable)	mg/L			13.40	12.20	12.00	8.35	10.70	12.50	12.20
Calcium (dissolved)	mg/L			13.00	11.90	11.10	8.25	10.20	11.90	11.50
Chloride	mg/L		<250	89.0	79.9	77.6	48.6	71.8	79.3	77.8
Magnesium (total)	mg/L			10.30	9.29	9.19	6.07	8.02	9.30	9.56
Magnesium (extractable)	mg/L			10.50	9.39	9.41	6.43	8.33	9.65	9.42
Magnesium (dissolved)	mg/L			10.10	8.93	8.82	5.90	7.82	8.97	9.21
Potassium (total)	mg/L			4.000	3.850	3.780	2.840	3.200	3.750	3.840
Potassium (extractable)	mg/L			4.0		3.4	2.6	3.2		3.4
Potassium (dissolved)	mg/L			3.82	3.45	3.31	2.70	2.94	3.44	3.43
Sodium (total)	mg/L			47.90	42.30	41.50	25.20	35.70	42.30	43.10
Sodium (extractable)	mg/L			50.1	45.5	43.3	26.7	39.7	45.5	42.4
Sodium (dissolved)	mg/L			47.30	42.00	41.10	24.80	35.34	41.90	42.80
Sulfate	mg/L		<500	15	8	6	18	10	7	6
Anions	meq/L			3.91	3.37	3.27	2.37	3.10	3.35	3.29
Cations	meq/L			3.82	3.45	3.34	2.17	3.03	3.49	3.32
Ionic Balance	N/A			0.97	1.02	1.02	0.91	0.98	1.04	1.01
Total Metals										
Aluminum	µg/L	5, 100		**219**	**831**	**983**	**267**	**700**	**605**	**858**
Antimony	µg/L		6	0.044	0.066	0.043	0.026	0.036	0.042	0.042
Arsenic	µg/L	5	10	0.682	0.735	0.653	0.371	0.674	0.777	0.696
Barium	µg/L		1000	6.08	13.70	15.30	5.29	11.30	10.80	13.70
Beryllium	µg/L			0.006	0.031	0.030	0.007	0.023	0.019	0.024
Bismuth	µg/L			0.002	0.010	0.003	0.003	0.005	0.005	0.002
Boron	µg/L		5000	46.40	41.90	36.50	26.40	34.80	42.40	38.20
Cadmium	µg/L	0.007 - 0.055	5	0.004	0.011	0.004	0.005	0.007	<0.002	0.004
Chromium	µg/L	1 or 16	50	0.43	**1.34**	**1.64**	0.52	**1.16**	0.96	**1.50**
Cobalt	µg/L			0.064	0.268	0.356	0.115	0.253	0.208	0.311
Copper	µg/L	2 - 4	<1000	**3.03**	**3.40**	**3.46**	**2.43**	**2.94**	**3.14**	**3.45**
Iron	µg/L	300	<300	120	**571**	**776**	204	**535**	**427**	**675**
Lead	µg/L	1 - 7	10	0.088	0.425	0.393	0.102	0.249	0.241	0.343
Manganese	µg/L		<50	2.6	8.5	10.3	5.7	7.8	6.9	9.5
Mercury	ng/L	26	1000	0.7	<0.6	<0.6	3.2	<0.6	1.1	<0.6
Molybdenum	µg/L	73		0.742	0.672	0.638	0.404	0.603	0.666	0.650
Nickel	µg/L	25 - 150		0.751	1.000	1.360	0.857	1.170	0.813	1.260
Selenium	µg/L	1	10	0.4	**1.5**	**1.1**	0.5	0.8	**1.7**	**1.1**
Silver	µg/L	0.1		0.0043	0.0139	0.0051	<0.0005	0.0012	0.0034	0.0042
Strontium	µg/L			72.8	67.7	62.1	39.9	58.3	67.5	63.9
Thallium	µg/L	0.8		0.0053	0.0180	0.0136	0.0034	0.0115	0.0111	0.0111
Tin	µg/L			0.05	0.05	0.05	<0.03	<0.03	<0.03	<0.03
Uranium	µg/L		20	0.3210	0.3180	0.3000	0.1550	0.2560	0.3080	0.3110
Vanadium	µg/L			0.494	1.500	1.940	0.566	1.350	1.150	1.770
Zinc	µg/L	30, 13 - 198	<5000	0.72	4.64	2.92	1.79	1.89	1.55	2.21
Dissolved Metals										
Aluminum	µg/L			33.1	112.0	85.3	55.2	47.9	107.0	78.8
Antimony	µg/L			0.044	0.066	0.042	0.026	0.036	0.041	0.041
Arsenic	µg/L			0.530	0.627	0.481	0.334	0.536	0.748	0.496
Barium	µg/L			3.78	4.08	3.47	2.77	3.02	4.01	3.50
Beryllium	µg/L			<0.003	0.007	0.004	<0.003	<0.003	0.006	<0.003
Boron	µg/L			45.30	40.70	35.80	24.60	34.30	40.80	37.50
Cadmium	µg/L			0.004	0.007	<0.002	0.005	<0.002	<0.002	<0.002
Chromium	µg/L			0.43	0.42	0.53	0.36	0.22	0.49	0.58
Cobalt	µg/L			0.009	0.048	0.033	0.036	0.021	0.043	0.032
Copper	µg/L			2.50	3.37	2.44	2.41	2.28	3.11	2.51
Iron	µg/L			8.2	66.0	49.2	51.1	30.4	61.6	46.0
Lead	µg/L			0.016	0.105	0.047	0.037	0.031	0.063	0.044
Manganese	µg/L			0.6	0.9	0.7	1.1	0.6	1.1	0.7
Molybdenum	µg/L			0.721	0.657	0.599	0.389	0.585	0.659	0.648
Nickel	µg/L			0.621	0.457	0.613	0.731	0.603	0.469	0.609
Selenium	µg/L			0.1	0.1	0.7	0.5	0.3	1.7	0.8
Silver	µg/L			<0.0005	0.0017	<0.0005	<0.0005	<0.0005	0.0009	<0.0005
Strontium	µg/L			68.7	62.0	56.7	39.5	54.0	62.9	60.1
Uranium	µg/L			0.2850	0.2770	0.2450	0.1360	0.2100	0.2720	0.2540
Vanadium	µg/L			0.362	0.444	0.451	0.283	0.255	0.397	0.490
Zinc	µg/L			0.31	2.70	0.38	1.77	0.35	1.35	0.43
Radionuclides										
Radium-226	Bq/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Other										
Cyanide	mg/L		0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.09	0.08	0.08	0.05	0.08	0.08	0.08
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Ogama Lake Top				Ogama Lake Bottom		
				24-May-08	15-Jul-08	17-Aug-08	10-Sep-08	15-Jul-08	17-Aug-08	10-Sep-08
Physical										
Alkalinity (Total as $CaCO_3$)	mg/L			68.0	19.4	23.4	23.8	19.1	23.4	24.1
Hardness (Total as $CaCO_3$)	mg/L			121.0	31.3	37.6	40.2	30.9	37.7	40.6
Specific Conductivity (lab)	µS/cm			725	184	225	229	184	225	230
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	6.9	7.5	8.0	7.9	7.5	8.0	7.9
Total Dissolved Solids	mg/L		<500	393.0	89.4	104.0	108.0	87.8	106.0	112.0
Total Suspended Solids	mg/L			<1	4	5	8	4	2	8
True Colour	TCU		<15	**37**	13	12	**36**	13	12	**36**
Nutrients										
Total Phosphorus	µg/L			25	20	25	29	19	35	36
Total Kjeldahl Nitrogen	mg/L			0.72	0.28	0.47	0.56	0.28	0.49	0.55
Ammonia - N	mg/L	0.2 - 122.4		0.011	0.007	0.006	0.010	0.008	0.006	0.006
Nitrite+Nitrate - N	mg/L			0.142	0.018	0.011	<0.005	0.014	0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.003	0.001	<0.001	<0.001	0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.139	0.017	0.011	<0.005	0.013	0.005	<0.005
Organics										
Organic Carbon (particulate)	mg/L			0.32	0.32	1.31	1.17	0.37	1.13	1.14
Dissolved Organic Carbon	mg/L			10.4	5.3	5.9	6.9	5.6	6.0	7.3
Total Organic Carbon	mg/L			10.72	5.62	7.21	8.07	5.97	7.13	8.44
Chlorophyll *a*	µg/L			-	2.44	10.22	6.63	-	-	-
Major Ions										
Bicarbonate	mg/L			83	24	29	29	23	29	29
Calcium (total)	mg/L			17.70	4.92	6.13	6.26	4.89	6.05	6.28
Calcium (extractable)	mg/L			18.80	4.98	6.07	6.52	4.95	6.06	6.59
Calcium (dissolved)	mg/L			17.50	4.73	5.89	5.94	4.76	5.85	6.08
Chloride	mg/L		<250	197.0	42.2	47.1	51.6	42.4	50.1	54.7
Magnesium (total)	mg/L			17.60	4.38	5.93	5.61	4.39	5.84	5.67
Magnesium (extractable)	mg/L			17.90	4.58	5.45	5.81	4.51	5.49	5.87
Magnesium (dissolved)	mg/L			17.10	4.21	5.68	5.36	4.26	5.69	5.48
Potassium (total)	mg/L			5.450	1.790	2.190	2.030	1.790	2.180	2.060
Potassium (extractable)	mg/L			6.2	1.7		1.8	1.7	1.9	1.9
Potassium (dissolved)	mg/L			5.20	1.67	2.04	1.82	1.69	2.03	1.84
Sodium (total)	mg/L			88.50	20.20	28.00	24.80	20.10	27.60	25.10
Sodium (extractable)	mg/L			106.0	20.8	26.8	25.8	20.7	26.5	26.5
Sodium (dissolved)	mg/L			88.10	19.60	27.00	24.00	19.90	27.20	24.60
Sulfate	mg/L		<500	6	3	<3	<3	<3	<3	<3
Anions	meq/L			7.05	1.65	1.84	1.98	1.62	1.92	2.07
Cations	meq/L			7.19	1.58	1.97	1.97	1.56	1.96	2.01
Ionic Balance	N/A			1.02	0.95	1.07	1.00	0.96	1.02	0.97
Total Metals										
Aluminum	µg/L	5, 100		46.3	**200**	**230**	**378**	**193**	**217**	**403**
Antimony	µg/L		6	0.074	0.011	0.014	0.014	0.012	0.016	0.018
Arsenic	µg/L	5	10	1.360	0.405	0.583	0.524	0.394	0.574	0.560
Barium	µg/L		1000	7.67	4.27	5.20	7.26	4.21	5.07	7.45
Beryllium	µg/L			0.004	0.007	0.011	0.009	<0.003	<0.003	0.009
Bismuth	µg/L			<0.001	0.011	0.002	0.003	0.006	0.002	0.003
Boron	µg/L		5000	55.80	14.20	19.30	16.60	14.40	19.40	17.20
Cadmium	µg/L	0.007 - 0.055	5	<0.002	0.004	0.002	<0.002	0.003	0.004	0.003
Chromium	µg/L	1 or 16	50	0.48	0.51	0.42	0.76	0.50	0.38	0.79
Cobalt	µg/L			0.103	0.108	0.063	0.110	0.101	0.063	0.133
Copper	µg/L	2 - 4	<1000	**2.48**	1.24	1.46	1.95	1.20	1.49	1.92
Iron	µg/L	300	<300	200	**365**	227	**323**	**352**	221	**345**
Lead	µg/L	1 - 7	10	0.004	0.102	0.085	0.130	0.098	0.089	0.156
Manganese	µg/L		<50	**81.7**	37.9	11.2	11.7	36.9	11.1	12.2
Mercury	ng/L	26	1000	<0.6	2.0	1.1	<0.6	1.0	1.4	0.9
Molybdenum	µg/L	73		0.300	0.133	0.200	0.200	0.128	0.190	0.205
Nickel	µg/L	25 - 150		1.170	0.768	0.717	1.080	0.749	0.693	1.130
Selenium	µg/L	1	10	0.9	0.5	**1.1**	1.0	0.6	1.0	0.8
Silver	µg/L	0.1		0.0054	0.0043	<0.0005	<0.0005	0.0045	0.0173	<0.0005
Strontium	µg/L			116.0	30.3	37.3	36.6	30.1	37.0	37.1
Thallium	µg/L	0.8		0.0004	0.0103	0.0036	0.0074	0.0059	0.0037	0.0079
Tin	µg/L			0.15	<0.03	<0.03	<0.03	<0.03	0.03	<0.03
Uranium	µg/L		20	0.0765	0.0418	0.0529	0.0546	0.0405	0.0511	0.0550
Vanadium	µg/L			<0.01	0.382	0.289	0.550	0.375	0.294	0.561
Zinc	µg/L	30, 13 - 198	<5000	<0.1	1.29	0.50	1.07	1.61	0.54	2.10
Dissolved Metals										
Aluminum	µg/L			16.2	29.2	46.8	69.2	30.3	45.5	74.2
Antimony	µg/L			0.074	0.011	0.014	0.014	0.012	0.015	0.018
Arsenic	µg/L			1.250	0.286	0.496	0.434	0.314	0.484	0.414
Barium	µg/L			6.81	2.11	2.66	2.96	2.19	2.62	3.15
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007
Boron	µg/L			53.70	13.70	18.80	16.10	14.10	19.10	16.50
Cadmium	µg/L			<0.002	0.003	<0.002	<0.002	0.002	<0.002	<0.002
Chromium	µg/L			0.48	0.35	0.28	0.42	0.35	0.27	0.47
Cobalt	µg/L			0.095	0.018	0.022	0.023	0.017	0.021	0.028
Copper	µg/L			2.46	1.12	1.45	1.44	1.04	1.48	1.51
Iron	µg/L			105.0	103.0	60.5	81.2	107.0	61.6	87.3
Lead	µg/L			<0.001	0.026	0.032	0.027	0.028	0.033	0.037
Manganese	µg/L			76.5	9.5	0.5	0.5	11.6	0.4	0.6
Molybdenum	µg/L			0.295	0.123	0.198	0.183	0.124	0.176	0.185
Nickel	µg/L			1.090	0.564	0.534	0.810	0.597	0.522	0.830
Selenium	µg/L			0.9	0.5	0.7	0.7	0.5	0.2	0.6
Silver	µg/L			0.0006	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			113.0	28.3	35.2	34.1	28.5	35.1	34.6
Uranium	µg/L			0.0680	0.0272	0.0412	0.0406	0.0307	0.0409	0.0418
Vanadium	µg/L			<0.01	0.108	0.103	0.159	0.108	0.087	0.177
Zinc	µg/L			<0.05	0.81	0.49	0.42	0.65	0.54	0.78
Radionuclides										
Radium-226	Bq/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Other										
Cyanide	mg/L		0.2	0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.12	0.05	0.05	0.06	0.04	0.05	0.06
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Ogama Outflow				Patch Lake Top			
				23-Jun-08	17-Jul-08	19-Aug-08	14-Sep-08	23-May-08	17-Jul-08	15-Aug-08	10-Sep-08
Physical											
Alkalinity (Total as $CaCO_3$)	mg/L			20.8	20.0	23.7	23.9	54.6	28.5	35.1	35.3
Hardness (Total as $CaCO_3$)	mg/L			35.0	33.5	35.7	40.4	96.6	46.6	62.8	64.7
Specific Conductivity (lab)	µS/cm			211	193	227	230	486	273	334	340
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	6.8	7.5	8.0	8.3	6.6	7.3	8.0	7.6
Total Dissolved Solids	mg/L		<500	110.0	94.0	111.0	108.0	263.0	129.0	163.0	161.0
Total Suspended Solids	mg/L			4	3	4	6	<1	<1	2	3
True Colour	TCU		<15	**57**	**25**	12	**36**	**15**	13	<1	**17**
Nutrients											
Total Phosphorus	µg/L			23	28	32	28	8	8	9	9
Total Kjeldahl Nitrogen	mg/L			0.48	0.39	0.51	0.55	0.30	0.21	0.23	0.23
Ammonia - N	mg/L	0.2 - 122.4		0.010	0.005	0.007	0.008	0.006	0.008	0.002	0.005
Nitrite+Nitrate - N	mg/L			<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.003	0.001	<0.001	0.001	0.001	0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005
Organics											
Organic Carbon (particulate)	mg/L			0.35	0.69	1.40	1.37	0.08	0.22	0.31	0.66
Dissolved Organic Carbon	mg/L			9.2	5.0	6.0	7.1	4.7	3.7	4.5	3.9
Total Organic Carbon	mg/L			9.55	5.69	7.40	8.47	4.78	3.92	4.81	4.56
Chlorophyll *a*	µg/L			-	-	-	-	-	0.84	0.75	1.16
Major Ions											
Bicarbonate	mg/L			25	24	29	29	67	35	43	43
Calcium (total)	mg/L			5.32	4.98	6.12	5.99	17.20	8.84	11.10	11.60
Calcium (extractable)	mg/L			5.28	5.03	5.74	6.41	17.90	8.72	11.50	12.20
Calcium (dissolved)	mg/L			5.15	4.82	6.10	5.93	16.60	8.84	11.00	11.10
Chloride	mg/L		<250	49.7	45.9	54.0	52.3	125.0	63.6	79.0	77.5
Magnesium (total)	mg/L			5.09	4.60	5.80	5.68	12.00	6.44	8.22	8.13
Magnesium (extractable)	mg/L			5.31	5.08	5.20	5.93	12.60	6.04	8.28	8.31
Magnesium (dissolved)	mg/L			4.91	4.50	5.74	5.60	11.40	6.16	8.05	7.82
Potassium (total)	mg/L			2.360	1.800	2.100	2.030	4.190	2.320	2.950	2.880
Potassium (extractable)	mg/L			2.1	1.7		1.9	4.6	2.2	2.8	2.7
Potassium (dissolved)	mg/L			2.18	1.68	2.03	1.89	4.05	2.24	2.88	2.68
Sodium (total)	mg/L			24.20	21.50	25.90	26.00	56.80	29.00	38.00	36.80
Sodium (extractable)	mg/L			26.1	22.2	27.5	25.5	65.1	29.0	38.0	37.1
Sodium (dissolved)	mg/L			23.70	21.10	25.64	25.90	53.30	27.90	37.50	35.90
Sulfate	mg/L		<500	9	<3	<3	<3	5	<3	<3	<3
Anions	meq/L			2.01	1.74	2.04	2.00	4.72	2.41	2.97	2.94
Cations	meq/L			1.89	1.68	1.96	1.96	4.88	2.25	2.98	2.98
Ionic Balance	N/A			0.94	0.96	0.96	0.98	1.03	0.93	1.00	1.01
Total Metals											
Aluminum	µg/L	5, 100		**385**	**240**	**203**	**338**	17.5	**194**	99.3	**273**
Antimony	µg/L		6	0.012	0.012	0.017	0.015	0.033	0.014	0.019	0.043
Arsenic	µg/L	5	10	0.415	0.458	0.596	0.553	0.797	0.392	0.643	0.598
Barium	µg/L		1000	7.50	5.17	4.91	6.69	5.11	4.68	4.36	6.27
Beryllium	µg/L			0.032	0.010	<0.003	0.014	<0.003	<0.003	<0.003	0.004
Bismuth	µg/L			0.003	0.002	0.002	0.002	<0.001	<0.001	0.003	0.004
Boron	µg/L		5000	17.80	15.60	19.90	18.40	42.90	21.40	28.20	27.20
Cadmium	µg/L	0.007 - 0.055	5	0.005	0.003	<0.002	0.003	<0.002	<0.002	<0.002	0.010
Chromium	µg/L	1 or 16	50	0.83	0.49	0.41	0.59	0.20	0.52	0.31	0.58
Cobalt	µg/L			0.205	0.109	0.066	0.113	0.008	0.094	0.037	0.090
Copper	µg/L	2 - 4	<1000	1.69	1.24	1.39	1.72	0.96	1.28	1.15	1.31
Iron	µg/L	300	<300	**641**	**437**	239	**333**	11.9	191	66.6	183
Lead	µg/L	1 - 7	10	0.145	0.087	0.070	0.108	<0.001	0.089	0.044	0.155
Manganese	µg/L		<50	34.2	**62.5**	18.7	17.4	2.2	5.6	4.7	6.1
Mercury	ng/L	26	1000	3.1	1.4	<0.6	1.1	<0.6	<0.6	<0.6	<0.6
Molybdenum	µg/L	73		0.269	0.136	0.231	0.188	0.208	0.114	0.158	0.162
Nickel	µg/L	25 - 150		1.360	0.848	0.549	0.982	0.355	0.718	0.473	0.616
Selenium	µg/L	1	10	0.5	0.2	**1.1**	0.7	<0.1	0.8	**1.3**	**1.1**
Silver	µg/L	0.1		0.0006	0.0031	0.0017	0.0134	0.0010	<0.0005	0.0011	0.0020
Strontium	µg/L			29.9	29.9	37.7	36.7	112.0	57.1	71.1	71.9
Thallium	µg/L	0.8		0.0040	0.0040	0.0040	0.0052	0.0006	<0.0003	0.0042	0.0062
Tin	µg/L			<0.03	<0.03	<0.03	<0.03	0.07	<0.03	0.05	0.06
Uranium	µg/L		20	0.0528	0.0393	0.0510	0.0586	0.0623	0.0524	0.0598	0.0615
Vanadium	µg/L			0.700	0.389	0.294	0.447	<0.01	0.354	0.159	0.367
Zinc	µg/L	30, 13 - 198	<5000	2.00	0.99	1.75	1.74	<0.1	1.69	0.47	1.82
Dissolved Metals											
Aluminum	µg/L			81.9	26.3	48.6	63.2	1.8	17.2	13.5	27.1
Antimony	µg/L			0.012	0.012	0.017	0.015	0.032	0.013	0.019	0.043
Arsenic	µg/L			0.341	0.322	0.549	0.518	0.694	0.383	0.504	0.429
Barium	µg/L			3.54	2.14	2.65	3.04	4.64	2.80	3.22	3.41
Beryllium	µg/L			0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Boron	µg/L			16.40	14.50	19.40	17.90	39.60	18.50	26.80	25.90
Cadmium	µg/L			0.004	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	0.008
Chromium	µg/L			0.49	0.24	0.35	0.45	0.20	0.33	0.31	0.40
Cobalt	µg/L			0.086	0.014	0.020	0.023	0.008	0.009	0.015	0.015
Copper	µg/L			1.67	1.15	1.38	1.47	0.95	1.09	1.14	0.93
Iron	µg/L			316.0	116.0	75.4	72.7	<2	24.5	<2	16.5
Lead	µg/L			0.066	0.018	0.028	0.026	<0.001	0.017	0.010	0.015
Manganese	µg/L			17.4	11.7	0.6	0.8	0.2	0.8	0.2	0.3
Molybdenum	µg/L			0.138	0.126	0.190	0.186	0.208	0.111	0.156	0.160
Nickel	µg/L			1.100	0.617	0.355	0.725	0.351	0.368	0.392	0.408
Selenium	µg/L			0.5	<0.1	1.0	0.7	<0.1	0.8	0.9	1.0
Silver	µg/L			<0.0005	0.0008	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			28.2	28.4	37.6	35.2	110.0	53.7	69.4	68.5
Uranium	µg/L			0.0428	0.0292	0.0439	0.0466	0.0559	0.0411	0.0521	0.0474
Vanadium	µg/L			0.271	0.087	0.119	0.124	<0.01	0.103	0.061	0.124
Zinc	µg/L			1.98	0.55	1.73	1.72	<0.05	0.51	0.47	0.66
Radionuclides											
Radium-226	Bq/L			0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Other											
Cyanide	mg/L		0.2	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.06	0.05	0.06	0.06	0.06	0.05	0.07	0.06
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Patch Lake Bottom				Patch Outflow			
				23-May-08	17-Jul-08	15-Aug-08	10-Sep-08	21-Jun-08	17-Jul-08	19-Aug-08	10-Sep-08
Physical											
Alkalinity (Total as $CaCO_3$)	mg/L			59.2	31.7	36.3	35.3	18.2	32.9	35.9	35.2
Hardness (Total as $CaCO_3$)	mg/L			103.0	52.2	62.8	65.6	31.6	55.3	62.8	68.6
Specific Conductivity (lab)	µS/cm			526	300	335	341	169	318	340	342
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	6.6	7.3	8.0	7.6	7.0	7.6	8.2	8.0
Total Dissolved Solids	mg/L		<500	285.0	141.0	162.0	162.0	87.6	151.0	166.0	164.0
Total Suspended Solids	mg/L			<1	<1	1	4	<1	<1	<1	2
True Colour	TCU		<15	6	13	<1	**17**	**29**	<1	4	**17**
Nutrients											
Total Phosphorus	µg/L			6	8	8	12	13	9	9	8
Total Kjeldahl Nitrogen	mg/L			0.32	0.23	0.24	0.24	0.27	0.25	0.20	0.22
Ammonia - N	mg/L	0.2 - 122.4		0.017	0.005	0.004	0.007	0.005	0.005	0.007	0.006
Nitrite+Nitrate - N	mg/L			0.031	0.005	<0.005	<0.005	<0.005	<0.005	0.014	0.005
Nitrite - N	mg/L	0.06	3.2	0.002	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.029	0.005	<0.005	<0.005	<0.005	<0.005	0.014	0.005
Organics											
Organic Carbon (particulate)	mg/L			<0.02	0.24	0.21	0.12	0.20	0.14	0.13	<0.02
Dissolved Organic Carbon	mg/L			4.8	4.3	4.4	3.8	5.5	3.4	4.2	4.0
Total Organic Carbon	mg/L			4.81	4.54	4.61	3.92	5.70	3.54	4.33	3.99
Chlorophyll *a*	µg/L			-	-	-	-	-	-	-	-
Major Ions											
Bicarbonate	mg/L			72	39	44	43	22	40	44	43
Calcium (total)	mg/L			18.60	10.00	11.30	11.70	5.59	10.70	11.60	11.80
Calcium (extractable)	mg/L			19.00	9.82	11.50	12.30	5.51	10.50	12.10	12.90
Calcium (dissolved)	mg/L			17.80	9.85	11.00	11.30	5.46	10.60	11.30	11.40
Chloride	mg/L		<250	136.0	68.9	77.6	78.7	39.6	74.9	81.0	79.2
Magnesium (total)	mg/L			13.00	7.23	8.37	8.19	4.23	7.31	7.81	8.23
Magnesium (extractable)	mg/L			13.40	6.73	8.28	8.48	4.33	7.07	7.91	8.83
Magnesium (dissolved)	mg/L			12.80	6.87	8.14	7.99	4.12	7.14	7.75	7.90
Potassium (total)	mg/L			4.480	2.550	3.000	2.900	1.940	2.700	2.880	2.850
Potassium (extractable)	mg/L			4.9	2.4	2.8	2.8	1.8	2.7		2.7
Potassium (dissolved)	mg/L			4.48	2.46	2.88	2.73	1.85	2.60	2.76	2.72
Sodium (total)	mg/L			60.60	33.20	38.90	37.00	18.20	33.10	35.80	37.30
Sodium (extractable)	mg/L			70.3	31.8	37.6	36.9	18.7	34.5	38.5	36.8
Sodium (dissolved)	mg/L			59.70	31.10	37.60	36.30	17.70	32.50	35.20	36.10
Sulfate	mg/L		<500	6	<3	<3	<3	7	<3	<3	<3
Anions	meq/L			5.15	2.62	2.96	2.97	1.62	2.81	3.05	2.98
Cations	meq/L			5.23	2.49	2.96	2.99	1.49	2.67	3.00	3.04
Ionic Balance	N/A			1.02	0.95	1.00	1.01	0.92	0.95	0.99	1.02
Total Metals											
Aluminum	µg/L	5, 100		36.3	**104**	**101**	**240**	95.3	**199**	**144**	**159**
Antimony	µg/L		6	0.078	0.014	0.026	0.021	0.013	0.018	0.019	0.018
Arsenic	µg/L	5	10	0.806	0.393	0.673	0.551	0.265	0.475	0.653	0.557
Barium	µg/L		1000	5.70	3.98	4.42	5.72	3.12	5.49	4.97	4.90
Beryllium	µg/L			0.009	0.004	0.004	0.003	0.006	0.007	0.003	<0.003
Bismuth	µg/L			0.002	<0.001	0.003	0.002	0.004	0.003	0.003	<0.001
Boron	µg/L		5000	43.30	23.70	28.80	27.40	13.90	23.10	27.30	27.30
Cadmium	µg/L	0.007 - 0.055	5	<0.002	<0.002	0.003	<0.002	0.004	<0.002	<0.002	0.003
Chromium	µg/L	1 or 16	50	0.23	0.33	0.34	0.52	0.31	0.53	0.48	0.35
Cobalt	µg/L			0.014	0.056	0.041	0.077	0.179	0.087	0.055	0.049
Copper	µg/L	2 - 4	<1000	1.15	1.13	1.10	1.17	0.84	1.17	1.05	1.06
Iron	µg/L	300	<300	37.8	113	70.6	165	177	186	119	101
Lead	µg/L	1 - 7	10	<0.001	0.049	0.046	0.088	0.051	0.081	0.044	0.060
Manganese	µg/L		<50	5.5	5.3	4.8	5.5	20.5	5.6	5.3	4.1
Mercury	ng/L	26	1000	0.9	<0.6	<0.6	<0.6	2.6	<0.6	<0.6	0.6
Molybdenum	µg/L	73		0.195	0.111	0.163	0.157	0.131	0.138	0.174	0.156
Nickel	µg/L	25 - 150		0.296	0.592	0.610	0.530	0.575	0.579	0.221	0.442
Selenium	µg/L	1	10	<0.1	0.2	**1.5**	**1.3**	0.5	0.2	**1.6**	**1.1**
Silver	µg/L	0.1		0.0069	0.0005	<0.0005	<0.0005	<0.0005	0.0028	0.0007	0.0016
Strontium	µg/L			120.0	63.6	71.8	72.4	31.6	66.3	74.0	72.9
Thallium	µg/L	0.8		0.0019	<0.0003	0.0036	0.0062	0.0022	0.0066	0.0087	0.0045
Tin	µg/L			1.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Uranium	µg/L		20	0.0613	0.0475	0.0599	0.0599	0.0314	0.0618	0.0632	0.0553
Vanadium	µg/L			0.052	0.158	0.116	0.332	0.179	0.363	0.277	0.198
Zinc	µg/L	30, 13 - 198	<5000	<0.1	0.74	0.84	0.66	2.12	0.93	0.86	0.65
Dissolved Metals											
Aluminum	µg/L			3.8	11.0	13.3	24.9	25.5	11.5	18.7	21.0
Antimony	µg/L			0.078	0.014	0.025	0.021	0.012	0.018	0.019	0.018
Arsenic	µg/L			0.726	0.385	0.589	0.467	0.233	0.395	0.591	0.452
Barium	µg/L			5.15	2.91	3.22	3.27	2.26	3.31	3.43	3.19
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003	<0.003	0.004	0.003	<0.003
Boron	µg/L			42.20	21.00	27.00	26.30	12.60	21.80	26.00	26.10
Cadmium	µg/L			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	µg/L			0.23	0.32	0.34	0.41	0.29	0.28	0.39	0.31
Cobalt	µg/L			0.002	0.005	0.014	0.009	0.121	0.006	0.014	0.030
Copper	µg/L			1.14	0.99	1.09	0.95	0.83	0.96	1.04	1.05
Iron	µg/L			2.0	15.4	2.0	14.8	96.4	18.1	17.2	12.2
Lead	µg/L			<0.001	0.014	0.005	0.012	0.033	0.007	0.009	0.009
Manganese	µg/L			0.8	1.0	0.2	0.3	14.9	0.3	0.2	0.3
Molybdenum	µg/L			0.189	0.103	0.154	0.155	0.119	0.131	0.172	0.154
Nickel	µg/L			0.268	0.368	0.579	0.408	0.541	0.381	0.161	0.416
Selenium	µg/L			0.2	0.1	1.1	0.8	0.3	0.1	1.4	1.0
Silver	µg/L			0.0047	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			116.0	60.7	69.2	69.2	30.4	64.4	71.6	69.8
Uranium	µg/L			0.0527	0.0389	0.0511	0.0493	0.0309	0.0482	0.0550	0.0475
Vanadium	µg/L			0.030	0.066	0.086	0.112	0.127	0.064	0.054	0.093
Zinc	µg/L			<0.05	0.73	0.83	0.65	2.10	0.42	0.85	0.64
Radionuclides											
Radium-226	Bq/L			<0.005	<0.005	0.005	<0.005	0.007	<0.005	<0.005	<0.005
Other											
Cyanide	mg/L		0.2	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.08	0.06	0.07	0.07	0.04	0.06	0.07	0.07
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Pelvic Lake Top			Pelvic Lake Bottom		
				15-Jul-08	17-Aug-08	11-Sep-08	15-Jul-08	17-Aug-08	11-Sep-08
Physical									
Alkalinity (Total as $CaCO_3$)	mg/L			18.6	20.9	20.6	30.7	21.0	20.6
Hardness (Total as $CaCO_3$)	mg/L			30.4	33.1	34.4	44.7	33.6	35.1
Specific Conductivity (lab)	µS/cm			200	227	226	343	227	226
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.3	8.0	7.6	7.3	8.0	7.6
Total Dissolved Solids	mg/L		<500	97.8	110.0	107.0	165.0	109.0	107.0
Total Suspended Solids	mg/L			6	8	10	5	9	11
True Colour	TCU		<15	13	12	**26**	**42**	12	**22**
Nutrients									
Total Phosphorus	µg/L			32	51	49	102	44	45
Total Kjeldahl Nitrogen	mg/L			0.45	0.70	0.87	0.86	0.71	0.84
Ammonia - N	mg/L	0.2 - 122.4		0.007	0.006	0.011	0.360	0.005	0.005
Nitrite+Nitrate - N	mg/L			0.015	<0.005	<0.005	0.031	<0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	<0.001	<0.001	<0.001	0.003	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.015	<0.005	<0.005	0.028	<0.005	<0.005
Organics									
Organic Carbon (particulate)	mg/L			1.17	2.69	2.68	1.30	2.55	3.74
Dissolved Organic Carbon	mg/L			5.1	5.7	6.3	6.9	6.2	6.1
Total Organic Carbon	mg/L			6.27	8.39	8.98	8.20	8.75	9.84
Chlorophyll *a*	µg/L			6.39	19.48	18.43	-	-	-
Major Ions									
Bicarbonate	mg/L			23	25	25	37	26	25
Calcium (total)	mg/L			3.80	4.21	4.40	5.66	4.27	4.26
Calcium (extractable)	mg/L			3.78	4.23	4.43	5.76	4.30	4.52
Calcium (dissolved)	mg/L			3.64	4.06	4.07	5.52	4.06	4.06
Chloride	mg/L		<250	47.1	54.6	53.2	80.8	54.5	52.5
Magnesium (total)	mg/L			4.86	5.58	5.67	7.10	5.65	5.47
Magnesium (extractable)	mg/L			5.09	5.47	5.66	7.37	5.55	5.78
Magnesium (dissolved)	mg/L			4.73	5.43	5.30	7.06	5.39	5.25
Potassium (total)	mg/L			1.720	1.920	1.960	2.510	1.950	1.890
Potassium (extractable)	mg/L			1.6	1.8	1.7	2.7	1.8	1.7
Potassium (dissolved)	mg/L			1.60	1.76	1.70	2.40	1.76	1.70
Sodium (total)	mg/L			24.10	28.10	27.80	36.90	28.70	26.90
Sodium (extractable)	mg/L			24.2	29.2	27.8	43.1	28.6	27.8
Sodium (dissolved)	mg/L			23.80	27.10	26.30	36.60	27.60	26.00
Sulfate	mg/L		<500	5	<3	<3	6	<3	<3
Anions	meq/L			1.80	2.00	1.96	3.03	2.00	1.94
Cations	meq/L			1.70	1.98	1.94	2.86	1.96	1.96
Ionic Balance	N/A			0.95	0.99	0.99	0.95	0.98	1.01
Total Metals									
Aluminum	µg/L	5, 100		**191**	**141**	**239**	**139**	**145**	**246**
Antimony	µg/L		6	0.013	0.014	0.016	0.020	0.015	0.016
Arsenic	µg/L	5	10	0.538	0.635	0.576	1.060	0.636	0.563
Barium	µg/L		1000	4.27	3.65	4.59	5.15	3.70	4.74
Beryllium	µg/L			0.004	<0.003	<0.003	0.004	0.006	0.008
Bismuth	µg/L			0.001	0.002	0.002	<0.001	0.003	0.002
Boron	µg/L		5000	20.10	20.80	21.00	28.30	21.40	20.10
Cadmium	µg/L	0.007 - 0.055	5	<0.002	<0.002	<0.002	0.002	0.002	<0.002
Chromium	µg/L	1 or 16	50	0.42	0.36	0.54	0.37	0.35	0.49
Cobalt	µg/L			0.077	0.067	0.082	0.224	0.067	0.083
Copper	µg/L	2 - 4	<1000	1.42	1.38	1.69	1.66	1.38	1.59
Iron	µg/L	300	<300	291	**329**	252	**1950**	**327**	260
Lead	µg/L	1 - 7	10	0.071	0.062	0.083	0.081	0.059	0.100
Manganese	µg/L		<50	30.3	23.8	11.7	**268.0**	24.2	13.2
Mercury	ng/L	26	1000	<0.6	1.1	<0.6	0.9	1.3	1.0
Molybdenum	µg/L	73		0.107	0.124	0.143	0.137	0.124	0.147
Nickel	µg/L	25 - 150		0.509	0.645	0.617	0.417	0.450	0.614
Selenium	µg/L	1	10	0.4	1.0	0.9	0.4	1.0	0.8
Silver	µg/L	0.1		0.0022	0.0028	<0.0005	0.0024	<0.0005	0.0005
Strontium	µg/L			26.9	29.6	30.3	41.0	29.6	29.1
Thallium	µg/L	0.8		0.0030	0.0048	0.0047	0.0030	0.0043	0.0049
Tin	µg/L			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Uranium	µg/L		20	0.0422	0.0464	0.0509	0.0517	0.0478	0.0534
Vanadium	µg/L			0.254	0.221	0.360	0.309	0.235	0.363
Zinc	µg/L	30, 13 - 198	<5000	0.74	0.35	0.46	1.04	0.27	0.56
Dissolved Metals									
Aluminum	µg/L			26.2	27.4	44.7	14.6	28.4	43.6
Antimony	µg/L			0.013	0.014	0.016	0.020	0.015	0.016
Arsenic	µg/L			0.453	0.527	0.461	0.914	0.516	0.459
Barium	µg/L			2.12	1.92	2.07	2.98	1.91	2.03
Beryllium	µg/L			<0.003	<0.003	<0.003	0.004	0.004	<0.003
Boron	µg/L			19.30	19.40	18.70	27.40	19.70	19.20
Cadmium	µg/L			0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium	µg/L			0.31	0.28	0.33	0.37	0.24	0.32
Cobalt	µg/L			0.016	0.019	0.020	0.021	0.021	0.019
Copper	µg/L			1.33	1.37	1.29	1.64	1.37	1.32
Iron	µg/L			80.7	136.0	85.0	1260.0	133.0	85.7
Lead	µg/L			0.014	0.014	0.082	0.080	0.020	0.019
Manganese	µg/L			2.5	0.3	0.3	25.9	0.3	0.3
Molybdenum	µg/L			0.091	0.102	0.103	0.122	0.098	0.109
Nickel	µg/L			0.197	0.100	0.129	0.250	0.100	0.156
Selenium	µg/L			0.4	0.9	0.7	0.4	0.2	0.6
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			25.4	28.4	27.4	40.2	28.0	27.3
Uranium	µg/L			0.0312	0.0361	0.0391	0.0358	0.0366	0.0364
Vanadium	µg/L			0.045	0.076	0.101	0.222	0.099	0.126
Zinc	µg/L			0.47	0.35	0.25	1.03	0.26	0.06
Radionuclides									
Radium-226	Bq/L			<0.005	0.007	<0.005	0.008	<0.005	<0.005
Other									
Cyanide	mg/L		0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.05	0.05	0.05	0.06	0.05	0.05
Sulphide	mg/L			<0.001	<0.001	0.001	0.001	0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Pelvic Outflow				P.O. Lake		
				21-Jun-08	17-Jul-08	19-Aug-08	11-Sep-08	14-Jul-08	17-Aug-08	10-Sep-08
Physical										
Alkalinity (Total as $CaCO_3$)	mg/L			11.8	19.7	20.8	20.3	21.8	29.3	30.4
Hardness (Total as $CaCO_3$)	mg/L			18.4	30.6	31.1	33.6	38.2	49.3	53.4
Specific Conductivity (lab)	µS/cm			105	216	229	226	216	288	301
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.1	7.4	**8.7**	7.8	7.7	7.8	7.9
Total Dissolved Solids	mg/L		<500	53.0	106.0	110.0	105.0	104.0	139.0	142.0
Total Suspended Solids	mg/L			2	6	10	16	3	3	6
True Colour	TCU		<15	**57**	13	12	**22**	13	<1	**17**
Nutrients										
Total Phosphorus	µg/L			34	47	55	67	19	12	22
Total Kjeldahl Nitrogen	mg/L			0.50	0.53	0.82	0.99	0.20	0.20	0.28
Ammonia - N	mg/L	0.2 - 122.4		0.005	0.016	0.006	0.005	0.008	0.006	0.007
Nitrite+Nitrate - N	mg/L			<0.005	<0.005	<0.005	<0.005	0.012	<0.005	0.005
Nitrite - N	mg/L	0.06	3.2	0.002	<0.001	<0.001	<0.001	0.007	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.005
Organics										
Organic Carbon (particulate)	mg/L			0.51	1.61	3.44	3.95	0.05	0.16	0.26
Dissolved Organic Carbon	mg/L			7.9	5.1	5.6	6.0	4.0	4.0	4.3
Total Organic Carbon	mg/L			8.41	6.71	9.04	9.95	4.05	4.16	4.56
Chlorophyll *a*	µg/L			-	-	-	-	0.85	1.55	1.70
Major Ions										
Bicarbonate	mg/L			14	24	25	25	27	36	37
Calcium (total)	mg/L			2.50	3.89	4.31	4.25	6.62	8.78	9.04
Calcium (extractable)	mg/L			2.47	3.93	3.97	4.31	6.64	8.73	9.35
Calcium (dissolved)	mg/L			2.44	3.69	4.20	4.04	6.33	8.62	8.66
Chloride	mg/L		<250	22.6	51.9	54.8	53.4	51.1	67.9	69.1
Magnesium (total)	mg/L			2.85	5.05	5.83	5.49	5.24	7.02	6.89
Magnesium (extractable)	mg/L			2.97	5.04	5.14	5.54	5.25	6.67	7.31
Magnesium (dissolved)	mg/L			2.75	4.84	5.62	5.28	5.04	6.91	6.76
Potassium (total)	mg/L			1.380	1.800	2.010	2.010	2.230	2.780	2.720
Potassium (extractable)	mg/L			1.2	1.8		1.7	2.2	2.5	2.3
Potassium (dissolved)	mg/L			1.30	1.64	1.83	1.73	2.13	2.60	2.29
Sodium (total)	mg/L			11.90	25.60	28.60	27.30	24.30	34.40	31.40
Sodium (extractable)	mg/L			12.3	26.8	30.0	26.1	24.0	33.7	33.8
Sodium (dissolved)	mg/L			11.80	24.80	27.90	26.60	23.70	33.90	31.09
Sulfate	mg/L		<500	4	5	<3	<3	<3	<3	<3
Anions	meq/L			0.97	1.96	2.01	1.96	1.92	2.55	2.60
Cations	meq/L			0.93	1.82	1.97	1.85	1.86	2.52	2.60
Ionic Balance	N/A			0.97	0.93	0.98	0.95	0.97	0.99	1.00
Total Metals										
Aluminum	µg/L	5, 100		**195**	**186**	**236**	**394**	**158**	**394**	**923**
Antimony	µg/L		6	0.009	0.017	0.030	0.017	0.017	0.023	0.023
Arsenic	µg/L	5	10	0.228	0.590	0.746	0.659	0.353	0.600	0.610
Barium	µg/L		1000	4.14	4.32	4.60	6.62	3.19	6.87	14.10
Beryllium	µg/L			0.012	0.005	0.009	0.013	0.003	0.007	0.027
Bismuth	µg/L			0.002	0.002	0.002	0.002	<0.001	0.003	0.008
Boron	µg/L		5000	11.90	20.70	23.70	20.20	17.60	25.70	22.10
Cadmium	µg/L	0.007 - 0.055	5	0.006	0.002	<0.002	<0.002	0.013	0.004	0.004
Chromium	µg/L	1 or 16	50	0.48	0.39	0.44	0.67	0.38	0.52	**1.54**
Cobalt	µg/L			0.173	0.088	0.079	0.139	0.069	0.081	0.259
Copper	µg/L	2 - 4	<1000	1.35	1.37	1.46	1.99	1.20	1.29	1.95
Iron	µg/L	300	<300	**321**	**504**	270	**362**	162	207	**581**
Lead	µg/L	1 - 7	10	0.065	0.076	0.085	0.160	0.208	0.151	0.344
Manganese	µg/L		<50	35.4	**54.9**	15.2	20.7	5.2	8.7	10.1
Mercury	ng/L	26	1000	4.1	<0.6	<0.6	<0.6	1.5	<0.6	<0.6
Molybdenum	µg/L	73		0.083	0.114	0.270	0.161	0.121	0.205	0.245
Nickel	µg/L	25 - 150		0.801	0.584	0.386	0.795	0.520	0.522	1.090
Selenium	µg/L	1	10	0.3	0.3	**1.1**	0.9	0.6	**1.2**	**1.3**
Silver	µg/L	0.1		<0.0005	0.0014	0.0028	<0.0005	<0.0005	0.0018	0.0128
Strontium	µg/L			14.7	27.6	31.4	30.0	40.7	56.1	57.7
Thallium	µg/L	0.8		0.0020	0.0038	0.0038	0.0066	0.0030	0.0054	0.0150
Tin	µg/L			<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.13
Uranium	µg/L		20	0.0393	0.0399	0.0574	0.0613	0.0487	0.0643	0.0800
Vanadium	µg/L			0.339	0.284	0.396	0.607	0.251	0.403	1.330
Zinc	µg/L	30, 13 - 198	<5000	1.70	2.07	0.81	1.58	2.66	1.03	2.72
Dissolved Metals										
Aluminum	µg/L			64.0	17.2	46.0	40.0	21.7	64.1	104.0
Antimony	µg/L			0.009	0.016	0.030	0.016	0.017	0.023	0.023
Arsenic	µg/L			0.215	0.442	0.648	0.484	0.305	0.437	0.402
Barium	µg/L			2.43	1.95	2.10	2.05	1.70	2.45	2.88
Beryllium	µg/L			0.008	<0.003	0.009	0.003	<0.003	<0.003	0.003
Boron	µg/L			11.50	18.90	21.80	19.30	16.90	24.30	22.10
Cadmium	µg/L			0.006	0.002	<0.002	<0.002	0.007	<0.002	<0.002
Chromium	µg/L			0.36	0.20	0.27	0.29	0.25	0.29	0.48
Cobalt	µg/L			0.067	0.015	0.028	0.022	0.012	0.024	0.031
Copper	µg/L			1.34	1.10	1.45	1.42	0.99	1.28	1.20
Iron	µg/L			164.0	165.0	103.0	61.4	25.7	29.1	66.6
Lead	µg/L			0.030	0.076	0.038	0.021	0.037	0.047	0.044
Manganese	µg/L			12.4	0.5	0.4	0.3	0.3	0.4	0.6
Molybdenum	µg/L			0.082	0.086	0.115	0.110	0.107	0.202	0.235
Nickel	µg/L			0.694	0.447	0.005	0.131	0.343	0.400	0.501
Selenium	µg/L			0.3	<0.1	1.0	0.5	0.6	0.8	0.9
Silver	µg/L			<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			14.6	25.6	30.4	27.6	38.7	55.9	52.1
Uranium	µg/L			0.0357	0.0271	0.0449	0.0399	0.0362	0.0492	0.0467
Vanadium	µg/L			0.152	0.075	0.155	0.119	0.069	0.088	0.239
Zinc	µg/L			1.68	0.75	0.80	0.24	2.55	1.02	0.58
Radionuclides										
Radium-226	Bq/L			0.020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Other										
Cyanide	mg/L		0.2	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.03	0.06	0.05	0.05	0.04	0.06	0.06
Sulphide	mg/L			<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	P.O. Outflow				Windy Lake Top			
				21-Jun-08	17-Jul-08	19-Aug-08	10-Sep-08	24-May-08	20-Jul-08	19-Aug-08	14-Sep-08
Physical											
Alkalinity (Total as $CaCO_3$)	mg/L			29.8	22.8	29.6	30.3	58.2	49.0	49.1	49.1
Hardness (Total as $CaCO_3$)	mg/L			52.6	37.2	48.3	53.6	81.1	66.5	65.5	72.9
Specific Conductivity (lab)	µS/cm			290	226	290	300	478	433	429	435
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.4	7.6	8.1	7.9	7.4	7.7	8.4	8.1
Total Dissolved Solids	mg/L		<500	151.0	109.0	142.0	143.0	263.0	211.0	210.0	211.0
Total Suspended Solids	mg/L			2	5	<1	5	<1	<1	<1	<1
True Colour	TCU		<15	**46**	11	8	**17**	4	<1	<1	13
Nutrients											
Total Phosphorus	µg/L			14	17	14	18	4	5	6	6
Total Kjeldahl Nitrogen	mg/L			0.34	0.23	0.23	0.28	0.15	0.15	0.11	0.12
Ammonia - N	mg/L	0.2 - 122.4		0.006	0.004	0.005	0.009	0.004	0.007	0.005	0.002
Nitrite+Nitrate - N	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.003	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.002
Nitrate - N (calculated)	mg/L	2.9	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Organics											
Organic Carbon (particulate)	mg/L			0.24	0.30	0.15	0.15	<0.02	<0.02	0.15	<0.02
Dissolved Organic Carbon	mg/L			8.2	3.5	3.9	4.2	1.7	1.8	1.5	1.9
Total Organic Carbon	mg/L			8.44	3.80	4.05	4.35	1.71	1.81	1.65	1.91
Chlorophyll *a*	µg/L			-	-	-	-	-	0.39	8.19	0.53
Major Ions											
Bicarbonate	mg/L			36	28	36	37	71	60	60	60
Calcium (total)	mg/L			9.06	6.60	8.84	8.83	12.90	11.30	11.50	11.30
Calcium (extractable)	mg/L			8.87	6.51	8.58	9.43	13.70	11.30	11.30	12.80
Calcium (dissolved)	mg/L			8.75	6.52	8.71	8.74	12.70	11.00	11.30	10.90
Chloride	mg/L		<250	69.6	53.8	70.0	69.7	117.0	95.9	97.2	96.8
Magnesium (total)	mg/L			7.14	5.22	6.67	6.76	9.43	9.43	9.26	9.92
Magnesium (extractable)	mg/L			7.39	5.09	6.54	7.31	11.40	9.29	9.06	9.94
Magnesium (dissolved)	mg/L			6.91	5.09	6.62	6.65	9.34	9.11	9.14	9.51
Potassium (total)	mg/L			3.270	2.380	2.630	2.590	4.220	3.730	3.810	3.960
Potassium (extractable)	mg/L			2.9	2.2		2.3	4.9	3.8		3.9
Potassium (dissolved)	mg/L			3.11	2.20	2.50	2.29	4.13	3.60	3.73	3.76
Sodium (total)	mg/L			32.90	23.70	32.20	31.40	51.90	52.30	51.20	55.60
Sodium (extractable)	mg/L			33.8	25.5	34.8	33.7	71.4	53.5	54.9	53.6
Sodium (dissolved)	mg/L			32.10	23.46	32.00	31.40	51.90	50.80	50.50	53.50
Sulfate	mg/L		<500	11	<3	<3	<3	10	8	4	5
Anions	meq/L			2.79	2.02	2.61	2.62	4.67	3.86	3.82	3.82
Cations	meq/L			2.59	1.91	2.54	2.60	4.85	3.75	3.79	3.89
Ionic Balance	N/A			0.93	0.95	0.97	0.99	1.04	0.97	0.99	1.02
Total Metals											
Aluminum	µg/L	5, 100		**226**	**564**	**299**	**718**	4.4	61.1	92.1	67.2
Antimony	µg/L		6	0.016	0.014	0.019	0.018	0.142	0.058	0.061	0.064
Arsenic	µg/L	5	10	0.480	0.517	0.616	0.550	0.673	0.589	0.761	0.605
Barium	µg/L		1000	5.51	7.94	5.38	11.40	2.14	2.54	3.02	2.68
Beryllium	µg/L			0.005	0.020	0.008	0.013	<0.003	0.003	0.005	0.004
Bismuth	µg/L			0.004	0.004	0.002	0.005	<0.001	<0.001	0.001	0.007
Boron	µg/L		5000	24.40	16.70	25.00	22.00	54.40	50.50	47.90	48.00
Cadmium	µg/L	0.007 - 0.055	5	0.006	<0.002	<0.002	0.002	<0.002	0.009	0.003	0.004
Chromium	µg/L	1 or 16	50	0.48	**1.09**	0.43	**1.13**	0.20	0.33	0.40	0.30
Cobalt	µg/L			0.134	0.195	0.094	0.192	0.003	0.026	0.030	0.022
Copper	µg/L	2 - 4	<1000	1.22	1.23	1.09	1.60	0.49	1.04	0.85	1.52
Iron	µg/L	300	<300	264	**483**	195	**440**	4.0	50.6	63.0	41.7
Lead	µg/L	1 - 7	10	0.090	0.196	0.090	0.252	<0.001	0.038	0.031	0.033
Manganese	µg/L		<50	21.7	10.0	20.0	9.2	0.8	2.3	2.8	2.3
Mercury	ng/L	26	1000	3.0	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	0.6
Molybdenum	µg/L	73		0.170	0.122	0.208	0.207	0.756	0.629	1.150	0.665
Nickel	µg/L	25 - 150		0.906	0.803	0.243	0.836	0.031	0.161	0.005	0.110
Selenium	µg/L	1	10	0.8	0.5	**1.4**	**1.3**	0.3	0.3	**2.0**	**1.2**
Silver	µg/L	0.1		<0.0005	0.0344	0.0015	<0.0005	0.0035	0.0014	<0.0005	0.0038
Strontium	µg/L			52.3	41.5	57.2	56.2	70.0	58.7	58.3	57.8
Thallium	µg/L	0.8		0.0029	0.0105	0.0055	0.0132	0.0010	0.0029	0.0065	0.0065
Tin	µg/L			<0.03	0.04	<0.03	<0.03	1.28	0.07	<0.03	<0.03
Uranium	µg/L		20	0.0619	0.0660	0.0612	0.0703	0.2200	0.1890	0.1860	0.1850
Vanadium	µg/L			0.343	0.988	0.322	0.996	<0.01	0.097	0.133	0.087
Zinc	µg/L	30, 13 - 198	<5000	2.45	1.56	1.25	1.52	<0.1	0.57	0.35	0.62
Dissolved Metals											
Aluminum	µg/L			51.1	35.6	63.2	96.2	1.7	3.2	6.4	4.8
Antimony	µg/L			0.016	0.014	0.018	0.018	0.141	0.057	0.060	0.063
Arsenic	µg/L			0.396	0.368	0.582	0.402	0.565	0.481	0.636	0.455
Barium	µg/L			3.40	1.74	2.24	2.79	2.12	1.93	2.08	1.96
Beryllium	µg/L			0.005	<0.003	0.006	<0.003	<0.003	0.003	0.005	<0.003
Boron	µg/L			22.60	16.40	24.50	21.80	53.80	46.20	46.10	45.20
Cadmium	µg/L			0.004	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.004
Chromium	µg/L			0.39	0.23	0.31	0.46	0.20	0.22	0.40	0.29
Cobalt	µg/L			0.070	0.014	0.018	0.027	<0.001	0.002	0.009	0.005
Copper	µg/L			1.21	1.22	1.08	1.19	0.48	0.75	0.84	0.77
Iron	µg/L			102.0	45.4	37.6	57.7	<2	<2	2.1	<2
Lead	µg/L			0.039	0.020	0.021	0.037	<0.001	0.005	0.009	0.033
Manganese	µg/L			14.8	0.3	0.3	0.5	0.1	0.1	0.1	0.1
Molybdenum	µg/L			0.169	0.114	0.199	0.205	0.748	0.621	0.711	0.628
Nickel	µg/L			0.716	0.360	0.099	0.446	0.030	0.098	0.005	0.075
Selenium	µg/L			0.7	0.2	1.3	0.8	0.3	0.2	1.8	0.8
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005	0.0029	<0.0005	<0.0005	0.0006
Strontium	µg/L			51.8	39.4	55.1	52.4	67.6	56.5	57.4	55.1
Uranium	µg/L			0.0523	0.0386	0.0491	0.0445	0.2190	0.1780	0.1750	0.1700
Vanadium	µg/L			0.153	0.096	0.123	0.237	0.012	0.023	0.060	0.086
Zinc	µg/L			2.43	0.69	0.92	0.32	<0.05	0.26	0.35	0.62
Radionuclides											
Radium-226	Bq/L			0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Other											
Cyanide	mg/L		0.2	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.06	0.05	0.06	0.06	0.08	0.08	0.08	0.09
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Windy Lake Bottom				Windy Outflow			
				24-May-08	20-Jul-08	19-Aug-08	14-Sep-08	22-Jun-08	17-Jul-08	19-Aug-08	14-Sep-08
Physical											
Alkalinity (Total as $CaCO_3$)	mg/L			59.0	48.7	49.1	49.1	27.5	39.5	49.6	48.7
Hardness (Total as $CaCO_3$)	mg/L			82.5	68.6	66.0	72.7	39.3	53.8	71.3	73.0
Specific Conductivity (lab)	µS/cm			484	437	431	435	230	343	430	434
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	7.4	7.7	8.4	8.1	7.5	7.5	8.0	8.0
Total Dissolved Solids	mg/L		<500	268.0	215.0	212.0	213.0	118.0	167.0	212.0	210.0
Total Suspended Solids	mg/L			<1	<1	<1	<1	1	<1	<1	<1
True Colour	TCU		<15	<1	<1	<1	10	**18**	3	<1	10
Nutrients											
Total Phosphorus	µg/L			4	11	8	6	7	11	8	7
Total Kjeldahl Nitrogen	mg/L			0.15	0.13	0.13	0.16	0.16	0.17	0.13	0.12
Ammonia - N	mg/L	0.2 - 122.4		0.004	0.007	0.005	0.004	0.004	0.005	0.004	0.006
Nitrite+Nitrate - N	mg/L			0.016	0.005	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.015	0.005	0.010	<0.005	<0.005	<0.005	<0.005	<0.005
Organics											
Organic Carbon (particulate)	mg/L			0.03	0.04	0.14	0.07	<0.02	0.07	0.18	0.06
Dissolved Organic Carbon	mg/L			1.5	1.8	1.6	2.2	2.6	1.7	1.8	2.0
Total Organic Carbon	mg/L			1.53	1.84	1.74	2.27	2.60	1.77	1.98	2.06
Chlorophyll *a*	µg/L			-	-	-	-	-	-	-	-
Major Ions											
Bicarbonate	mg/L			72	59	60	60	33	48	60	59
Calcium (total)	mg/L			13.10	11.30	11.70	11.20	7.04	9.24	12.10	11.70
Calcium (extractable)	mg/L			13.90	11.60	11.40	12.70	6.74	9.35	12.20	12.80
Calcium (dissolved)	mg/L			12.60	10.80	11.20	10.90	6.62	8.73	11.70	10.80
Chloride	mg/L		<250	119.0	96.8	97.8	96.6	50.5	76.3	95.2	95.8
Magnesium (total)	mg/L			9.51	9.03	9.33	9.77	5.38	7.40	9.94	10.10
Magnesium (extractable)	mg/L			11.60	9.63	9.12	9.95	5.46	7.40	9.93	9.97
Magnesium (dissolved)	mg/L			9.31	8.94	9.06	9.52	5.04	7.00	9.58	9.28
Potassium (total)	mg/L			4.210	3.580	3.870	3.910	2.250	2.920	4.010	4.040
Potassium (extractable)	mg/L			4.9	3.8		3.8	1.9	3.0		3.8
Potassium (dissolved)	mg/L			4.11	3.54	3.71	3.79	2.08	2.75	3.86	3.71
Sodium (total)	mg/L			51.90	50.60	52.00	54.70	27.80	39.80	54.90	56.40
Sodium (extractable)	mg/L			72.6	54.5	56.5	54.3	27.8	42.4	56.5	54.6
Sodium (dissolved)	mg/L			51.90	50.09	50.80	53.90	26.30	37.80	53.40	52.00
Sulfate	mg/L		<500	10	10	4	7	9	5	4	4
Anions	meq/L			4.77	3.91	3.84	3.85	2.16	3.05	3.77	3.75
Cations	meq/L			4.93	3.84	3.87	3.91	2.04	2.99	3.98	3.93
Ionic Balance	N/A			1.03	0.98	1.01	1.02	0.95	0.98	1.06	1.05
Total Metals											
Aluminum	µg/L	5, 100		14.0	59.7	**107**	69.8	**159**	**112**	46.6	57.9
Antimony	µg/L		6	0.074	0.061	0.067	0.061	0.036	0.049	0.064	0.124
Arsenic	µg/L	5	10	0.698	0.603	0.825	0.651	0.284	0.456	0.757	0.658
Barium	µg/L		1000	2.67	2.45	3.22	2.76	3.01	3.00	2.61	3.11
Beryllium	µg/L			<0.003	<0.003	0.005	<0.003	0.005	0.004	<0.003	0.005
Bismuth	µg/L			<0.001	<0.001	<0.001	0.004	0.002	0.002	0.004	0.007
Boron	µg/L		5000	57.30	47.80	48.40	47.30	25.40	37.40	52.60	48.50
Cadmium	µg/L	0.007 - 0.055	5	<0.002	0.004	0.002	0.004	0.004	<0.002	<0.002	**0.036**
Chromium	µg/L	1 or 16	50	0.27	0.19	0.44	0.31	0.39	0.30	0.31	0.35
Cobalt	µg/L			0.009	0.027	0.037	0.024	0.057	0.057	0.018	0.028
Copper	µg/L	2 - 4	<1000	0.35	0.97	0.84	1.02	0.97	0.92	0.83	1.04
Iron	µg/L	300	<300	13.5	47.5	79.2	46.4	121	166	44.4	49.1
Lead	µg/L	1 - 7	10	<0.001	0.039	0.084	0.048	0.072	0.157	0.023	0.247
Manganese	µg/L		<50	1.1	2.2	3.2	2.4	1.9	5.1	1.5	2.8
Mercury	ng/L	26	1000	<0.6	<0.6	<0.6	<0.6	1.4	<0.6	<0.6	<0.6
Molybdenum	µg/L	73		0.748	0.613	0.683	0.643	0.346	0.498	0.674	0.656
Nickel	µg/L	25 - 150		0.052	0.192	0.005	0.127	0.373	0.219	0.005	0.174
Selenium	µg/L	1	10	0.5	0.4	**2.3**	**1.3**	0.6	0.3	**2.2**	**1.3**
Silver	µg/L	0.1		0.0041	<0.0005	<0.0005	0.0021	0.0011	0.0006	0.0036	0.0032
Strontium	µg/L			70.0	57.9	59.6	56.9	32.7	46.5	61.4	59.2
Thallium	µg/L	0.8		0.0011	0.0026	0.0070	0.0050	0.0027	0.0040	0.0069	0.0042
Tin	µg/L			0.15	<0.03	<0.03	0.04	<0.03	0.97	<0.03	<0.03
Uranium	µg/L		20	0.2110	0.1830	0.1940	0.1770	0.0993	0.1050	0.2020	0.1980
Vanadium	µg/L			<0.01	0.056	0.124	0.126	0.259	0.173	0.023	0.055
Zinc	µg/L	30, 13 - 198	<5000	<0.1	3.43	0.51	0.70	0.76	0.86	0.22	3.90
Dissolved Metals											
Aluminum	µg/L			1.9	3.1	6.5	4.9	39.4	3.9	8.3	6.7
Antimony	µg/L			0.073	0.060	0.067	0.061	0.035	0.049	0.063	0.123
Arsenic	µg/L			0.640	0.544	0.693	0.588	0.261	0.344	0.653	0.545
Barium	µg/L			2.41	1.93	2.09	1.98	1.62	1.70	2.07	2.17
Beryllium	µg/L			<0.003	<0.003	0.003	<0.003	0.003	<0.003	<0.003	0.005
Boron	µg/L			53.80	47.80	47.30	46.10	23.20	34.60	50.10	44.40
Cadmium	µg/L			<0.002	<0.002	<0.002	0.004	0.003	<0.002	<0.002	0.025
Chromium	µg/L			0.27	0.19	0.42	0.31	0.33	0.16	0.31	0.34
Cobalt	µg/L			0.009	0.004	0.011	0.006	0.026	0.004	0.014	0.007
Copper	µg/L			0.34	0.96	0.83	0.77	0.96	0.70	0.82	0.78
Iron	µg/L			8.5	<2	<2	<2	29.3	8.7	9.6	<2
Lead	µg/L			<0.001	0.007	0.004	<0.001	0.021	0.007	0.008	0.021
Manganese	µg/L			0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.4
Molybdenum	µg/L			0.741	0.607	0.673	0.637	0.310	0.460	0.661	0.632
Nickel	µg/L			0.052	0.190	0.005	0.092	0.253	0.160	0.005	0.107
Selenium	µg/L			0.5	2.0	0.4	1.2	0.5	<0.1	1.8	1.2
Silver	µg/L			0.0027	<0.0005	<0.0005	0.0012	<0.0005	<0.0005	0.0010	0.0009
Strontium	µg/L			68.6	56.3	57.9	55.5	30.9	43.5	58.5	54.0
Uranium	µg/L			0.1990	0.1720	0.1770	0.1710	0.0814	0.0801	0.1800	0.1730
Vanadium	µg/L			<0.01	<0.01	0.016	0.099	0.131	<0.01	0.023	0.055
Zinc	µg/L			<0.05	0.52	0.51	0.60	0.75	0.46	0.22	2.45
Radionuclides											
Radium-226	Bq/L			<0.005	0.007	<0.005	<0.005	<0.005	<0.005	0.008	<0.005
Other											
Cyanide	mg/L		0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.10	0.09	0.08	0.09	0.04	0.07	0.08	0.09
Sulphide	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

Appendix B5. Analytical results for freshwater water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	CDWG - Drinking Water[a]	Wolverine Lake			
				23-May-08	14-Jul-08	15-Aug-08	10-Sep-08
Physical							
Alkalinity (Total as $CaCO_3$)	mg/L			117	32.1	36.6	36.5
Hardness (Total as $CaCO_3$)	mg/L			181.0	48.9	57.8	58.0
Specific Conductivity (lab)	µS/cm			999	300	246	348
Field pH	pH Unit	6.5 - 9.0	6.5 - 8.5	6.7	7.8	8.3	7.9
Total Dissolved Solids	mg/L		<500	**560.0**	147.0	171.0	164.0
Total Suspended Solids	mg/L			5	5	<1	2
True Colour	TCU		<15	**15**	11	8	**20**
Nutrients							
Total Phosphorus	µg/L			35	15	19	11
Total Kjeldahl Nitrogen	mg/L			0.88	0.33	0.33	0.37
Ammonia - N	mg/L	0.2 - 122.4		0.009	0.011	0.004	0.006
Nitrite+Nitrate - N	mg/L			0.011	0.014	0.005	<0.005
Nitrite - N	mg/L	0.06	3.2	0.006	<0.001	<0.001	<0.001
Nitrate - N (calculated)	mg/L	2.9	10	0.005	0.014	0.005	<0.005
Organics							
Organic Carbon (particulate)	mg/L			1.05	0.21	0.37	0.18
Dissolved Organic Carbon	mg/L			9.7	4.9	5.8	5.2
Total Organic Carbon	mg/L			10.75	5.11	6.17	5.38
Chlorophyll *a*	µg/L			-	1.48	1.55	1.88
Major Ions							
Bicarbonate	mg/L			142	39	45	44
Calcium (total)	mg/L			24.40	7.23	8.29	8.02
Calcium (extractable)	mg/L			25.80	7.05	8.50	8.39
Calcium (dissolved)	mg/L			24.20	6.86	8.00	7.79
Chloride	mg/L		<250	**275.0**	72.0	83.5	81.6
Magnesium (total)	mg/L			25.00	7.85	9.23	8.83
Magnesium (extractable)	mg/L			28.40	7.59	8.88	9.01
Magnesium (dissolved)	mg/L			24.75	7.50	8.94	8.47
Potassium (total)	mg/L			6.000	2.020	2.360	2.070
Potassium (extractable)	mg/L			6.5		2.2	2.1
Potassium (dissolved)	mg/L			5.98	1.92	2.27	1.97
Sodium (total)	mg/L			147.26	37.70	46.50	42.90
Sodium (extractable)	mg/L			150.0	36.9	44.2	39.2
Sodium (dissolved)	mg/L			143.09	36.20	45.40	41.60
Sulfate	mg/L		<500	4	<3	<3	<3
Anions	meq/L			10.20	2.72	3.13	3.08
Cations	meq/L			10.30	2.63	3.13	2.92
Ionic Balance	N/A			1.01	0.97	1.00	0.95
Total Metals							
Aluminum	µg/L	5, 100		**205**	67.0	46.5	87.2
Antimony	µg/L		6	0.077	0.016	0.012	0.010
Arsenic	µg/L	5	10	1.820	0.490	0.738	0.521
Barium	µg/L		1000	18.00	4.56	4.22	4.35
Beryllium	µg/L			0.005	<0.003	<0.003	<0.003
Bismuth	µg/L			0.004	<0.001	<0.001	0.002
Boron	µg/L		5000	49.80	16.70	20.90	19.40
Cadmium	µg/L	0.007 - 0.055	5	0.005	**0.020**	0.004	<0.002
Chromium	µg/L	1 or 16	50	0.67	0.22	0.16	0.28
Cobalt	µg/L			0.437	0.059	0.030	0.032
Copper	µg/L	2 - 4	<1000	0.31	1.09	0.62	0.65
Iron	µg/L	300	<300	**729**	178	91.4	81.9
Lead	µg/L	1 - 7	10	0.081	0.231	0.023	0.038
Manganese	µg/L		<50	**565.0**	32.2	13.1	6.6
Mercury	ng/L	26	1000	<0.6	2.3	1.3	<0.6
Molybdenum	µg/L	73		0.067	0.066	0.084	0.083
Nickel	µg/L	25 - 150		0.863	0.426	0.285	0.525
Selenium	µg/L	1	10	0.9	0.6	**1.5**	1.0
Silver	µg/L	0.1		0.0132	<0.0005	<0.0005	<0.0005
Strontium	µg/L			137.0	36.3	42.5	42.0
Thallium	µg/L	0.8		0.0033	<0.0003	0.0025	0.0045
Tin	µg/L			0.55	<0.03	0.03	0.07
Uranium	µg/L		20	0.0475	0.0254	0.0279	0.0265
Vanadium	µg/L			0.170	0.081	0.039	0.145
Zinc	µg/L	30, 13 - 198	<5000	0.18	2.92	0.30	3.53
Dissolved Metals							
Aluminum	µg/L			1.1	8.6	7.4	10.8
Antimony	µg/L			0.076	0.016	0.012	0.010
Arsenic	µg/L			1.750	0.427	0.627	0.414
Barium	µg/L			15.40	3.68	3.35	3.30
Beryllium	µg/L			<0.003	<0.003	<0.003	<0.003
Boron	µg/L			44.90	15.50	19.80	17.90
Cadmium	µg/L			0.002	0.007	<0.002	<0.002
Chromium	µg/L			0.66	0.22	0.16	0.28
Cobalt	µg/L			0.342	0.011	0.012	0.013
Copper	µg/L			0.30	0.83	0.62	0.51
Iron	µg/L			121.0	26.9	8.6	17.5
Lead	µg/L			<0.001	0.038	0.001	0.002
Manganese	µg/L			527.0	1.5	0.2	0.2
Molybdenum	µg/L			0.060	0.057	0.077	0.082
Nickel	µg/L			0.702	0.335	0.260	0.309
Selenium	µg/L			0.9	0.5	1.1	0.7
Silver	µg/L			<0.0005	<0.0005	<0.0005	<0.0005
Strontium	µg/L			132.0	35.2	40.9	39.9
Uranium	µg/L			0.0336	0.0178	0.0268	0.0210
Vanadium	µg/L			0.016	0.032	0.019	0.086
Zinc	µg/L			0.17	1.27	0.30	0.05
Radionuclides							
Radium-226	Bq/L			<0.005	<0.005	<0.005	<0.005
Other							
Cyanide	mg/L		0.2	0.001	<0.001	<0.001	<0.001
Fluoride	mg/L		1.5	0.14	0.08	0.07	0.06
Sulphide	mg/L			0.001	<0.001	<0.001	<0.001

[a]Guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

APPENDIX B6

FRESHWATER EXCEEDENCES OF WATER QUALITY AND DRINKING WATER GUIDELINES, 2003 - 2008

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Aimaokatalok Lake Site 4	17-Aug-06	Top	7.0	11.3			0.006										
	24-May-07	Top	7.0	15.1			0.024			2.3							
	24-May-07	Bottom	7.0	14.4			0.009	1.2									
	21-Jul-07	Top	6.0	12.3		31.7											
	19-Aug-07	Top	6.2	12.4		43.7											
	8-Sep-07	Top	6.0	13.2		42.9											
Aimaokatalok Lake Site 6	3-Jun-06	Bottom	-	17.6		192											
	20-Jul-07	Top	6.0	12.1		36.2											
	19-Aug-07	Top	6.1	12.4		48.1											
	8-Sep-07	Top	6.1	13.5		59.8											
Fickle Duck Lake	18-Jul-06	Top	7.0	17.8		122					364						
	17-Aug-06	Top	8.0	22.6							501						
	10-Sep-06	Top	7.7	25.5		172					532						
	24-May-07	Top	6.9	104				1.8		2.6	2810	187					
	22-Jul-07	Top	7.3	21.1		114					357						
	20-Aug-07	Top	6.8	26.5		155					317						
	9-Sep-07	Top	6.6	29.0		112				2.3							
	18-Jul-08	Top	7.5	16.3		126					401						
	14-Aug-08	Top	7.6	25.0		153					371						
	9-Sep-08	Top	7.7	30.7		142											
Reference lake	3-Jun-06	Bottom	6.9	14.7		191					402						
	18-Jul-06	Top	6.4	12.5		173											
	17-Aug-06	Top	7.4	15.9		101					301						
	11-Sep-06	Top	7.7	20.6		156											
	26-May-07	Top	6.7	86.1				1.2		2.5	1790	125					
	21-Jul-07	Top	6.8	14.0		211					340						
	20-Aug-07	Top	-	19.2						3.1							
Stickleback Lake	2-Jun-06	Bottom	6.9	42.2								94.8					
	24-May-07	Top	7.3	202							574	957				2.0	
Doris Lake	5-Jun-04	Top	7.5	41.0			0.066										
	19-Jul-05	Top	7.1	41.2												1.1	
	19-Jul-05	Bottom	7.1	40.5		108	0.233			5.66			1.83		28.3	1.1	
	20-Aug-05	Top	7.7	41.0												1.5	
	20-Aug-05	Bottom	7.7	40.3												1.1	
	31-May-06	Under ice	6.5	52.6								83.9				1.9	
	31-May-06	Bottom	6.5	55.0												2.1	
	14-Jul-06	Top	6.9	42.5												1.1	
	14-Jul-06	Bottom	6.9	41.5												1.1	
	11-Aug-06	Top	-	43.3												1.2	
	11-Aug-06	Bottom	-	42.3												1.2	
	13-Sep-06	Top	8.1	43.8												1.5	
	13-Sep-06	Bottom	8.1	43.8												1.2	
	22-May-07	Top	7.8	53.1												1.1	
	22-May-07	Bottom	7.8	53.3						2.2						1.4	
	15-Jul-07	Bottom	6.7	49.6								90.9				1.2	
	16-Aug-07	Top	6.9	42.9						2.1							
	24-May-08	Top	6.1	56.3		7.1											
	24-May-08	Bottom	6.1	54.6		14.3											
	17-Aug-08	Top	8.0	44.9												1.2	
	17-Aug-08	Bottom	8.0	45.3												1.1	
	11-Sep-08	Top	8.0	46.4													
	11-Sep-08	Bottom	8.0	46.0													
Little Roberts Lake	16-Aug-04	Top	7.6	41.0		582					462						
	19-Aug-04	Top	-	-		321											
	13-Sep-04	Top	6.2	45.0		134											
	19-Aug-05	Top	7.6	36.8												1.6	
	30-May-06	Top	7.7	29.6		245											
	11-Aug-06	Top	6.7	44.0												1.1	
	13-Sep-06	Top	7.8	49.7												1.5	
	24-May-07	Top	6.7	192	613	112			306	2.4	1700	639				6.6	
	18-Aug-07	Top	6.9	44.0		117				2.5							
	25-May-08	Top	6.4	108		12					484						
	14-Jul-08	Top	7.3	39.8		122											
	18-Aug-08	Top	7.7	44.0												1.1	
	12-Sep-08	Top	7.8	44.6												1.1	

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Roberts Lake	27-Jul-03	Top	7.6	33.0			0.020										
	17-Jul-04	Top	-	33.0		128											
	17-Jul-04	Bottom	-	34.0		137											
	13-Sep-04	Top	-	38.0		127								71			
	13-Sep-04	Bottom	-	39.0		110											
	20-Jul-05	Top	7.1	32.8		248											
	20-Jul-05	Bottom	7.1	32.8		238											
	13-Sep-05	Top	7.4	39.1		140											
	13-Sep-05	Bottom	7.5	39.8		147											
	30-May-06	Under ice	7.6	43.0												2.1	
	14-Jul-06	Top	6.7	35.5		130											
	14-Jul-06	Bottom	6.7	35.0		137											
	10-Aug-06	Top	6.8	38.0												1.2	
	10-Aug-06	Bottom	6.8	37.1												1.2	
	11-Sep-06	Bottom	7.8	36.9						3.78						1.1	
	24-May-07	Top	7.3	48.3		153										1.2	
	24-May-07	Bottom	7.3	51.4		153										1.6	
	15-Jul-07	Top	6.1	28.5		128											
	18-Aug-07	Top	6.9	37.2		139											
	18-Aug-07	Bottom	6.9	37.0		125				2.1							
	15-Jul-08	Top	7.5	32.0		162											
	15-Jul-08	Bottom	7.5	32.6		170											
	18-Aug-08	Top	7.9	38.8						7.3							
	12-Sep-08	Top	7.8	40.1		108											
	12-Sep-08	Bottom	7.8	40.4		135	0.03			2.1							
Tail Lake	5-Jun-04	Top	-	-									23.6				
	18-Aug-04	Top	7.6	32.0		147											
	18-Aug-04	Bottom	7.6	32.0		141											
	31-May-06	Middle	7.3	42.1												1.9	
	20-Jul-06	Top	7.3	31.0			0.094										
Glenn Lake	24-May-07	Top	7.4	87.7						3.0						1.7	
	24-May-07	Bottom	7.4	87.0						2.9						2.0	
	16-Jul-07	Top	7.3	57.1		112				2.2						1.1	
	16-Jul-07	Bottom	7.3	80.8		125				2.8						1.9	
	17-Aug-07	Top	7.2	67.9		457				3.1	327					1.1	
	18-Aug-07	Bottom	7.2	68.9		458				2.8	325					1.2	
	15-Sep-07	Top	-	71.6		650		1.1		3.8	436						
	15-Sep-07	Bottom	-	69.7		593				3.7	391						
	15-Jul-08	Top	7.6	63.9		250				2.7							
	15-Jul-08	Bottom	7.6	76.7		219				3							
	18-Aug-08	Top	8.2	68.3		715		1.24		2.9	443					1.4	
	18-Aug-08	Bottom	8.2	69.1		831		1.34		3.4	571					1.5	
	13-Sep-08	Top	8.5	68.6		1010		1.82		3.8	821					1.1	
	13-Sep-08	Bottom	8.5	68.7		983		1.64		3.5	776					1.1	
Ogama Lake	1-Jun-06	top	6.5	46.3		495				2.2	728	58.4				1.7	
	1-Jun-06	bottom	6.5	110		120				3	823	261				3.6	
	21-Jul-06	top	7.3	39.1		186											
	21-Jul-06	bottom	7.3	38.8		263											
	15-Aug-06	top	8.3	43.2		117										1.9	
	15-Aug-06	bottom	8.3	43.3		139										1.7	
	8-Sep-06	top	8.0	45.0		172										1.4	
	8-Sep-06	bottom	8.0	45.5		184										1.4	
	22-May-07	Top	7.1	98.7						2.5		82.4				3.1	
	16-Jul-07	Top	7.0	42.5		200					319	61.6					
	16-Aug-07	Top	7.1	46.3		336											
	16-Aug-07	Bottom	7.1	45.7		375				2.2	320						
	11-Sep-07	Top	7.1	46.2		306											
	11-Sep-07	Bottom	7.1	46.1		305				2.6							
	24-May-08	Top	6.9	121						2.5							
	15-Jul-08	Top	7.5	31.3		200					365						
	15-Jul-08	Bottom	7.5	30.9		193					352						
	17-Aug-08	Top	8.0	37.6		230										1.1	
	17-Aug-08	Bottom	8.0	37.7		217											
	10-Sep-08	Top	7.9	40.2		378					323						
	10-Sep-08	Bottom	7.9	40.6		403					345						

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Patch Lake	2-Jun-06	Bottom	6.8	86.6						2.2						1.8	
	23-Jul-06	Top	7.0	58.5		138											
	15-Aug-06	Top	-	60.7										44		1.6	
	16-Aug-06	Bottom	-	60.4												1.8	
	8-Sep-06	Top	8.1	59.1												1.3	
	8-Sep-06	Bottom	8.1	58.1												1.8	
	23-May-07	Top	7.4	86.2												1.9	
	23-May-07	Bottom	7.4	96.9												2.1	
	17-Jul-07	Top	7.1	74.3												1.4	
	17-Jul-07	Bottom	7.1	92.7												1.6	
	15-Aug-07	Top	7.0	61.4		306				2.2						1.2	
	15-Aug-07	Bottom	7.0	60.7		351				3.8						1.3	
	11-Sep-07	Top	-	59.5		195											
	11-Sep-07	Bottom	-	59.3		179											
	17-Jul-08	Top	7.7	46.6		194											
	17-Jul-08	Bottom	7.7	52.2		104											
	15-Aug-08	Top	8.0	62.8												1.3	
	15-Aug-08	Bottom	8.0	62.8		101										1.5	
	10-Sep-08	Top	7.9	64.7		273										1.1	
	10-Sep-08	Bottom	7.9	65.6		240										1.3	
Pelvic Lake	1-Jun-06	Top	6.5	43.3						2.7						1.5	
	1-Jun-06	Bottom	6.5	51.9							407	346				2.0	
	21-Jul-06	Top	8.6	32.8													
	21-Jul-06	Bottom	8.6	32.2						2.4							
	16-Aug-06	Top	8.2	34.4												1.5	
	16-Aug-06	Bottom	8.2	34.1												1.5	
	9-Sep-06	Top	8.2	35.7		103										1.9	
	9-Sep-06	Bottom	6.8	34.1		133				2.3						1.6	
	23-May-07	Top	7.7	47.7												2.1	
	23-May-07	Bottom	7.7	52.1							1100	1160				2.0	
	16-Jul-07	Top	6.9	31.5		186										1.1	
	16-Jul-07	Bottom	6.9	42.1		111					2760	642				1.1	
	16-Aug-07	Top	6.7	34.4		201											
	16-Aug-07	Bottom	6.7	36.0		178				3.0	429	120					
	13-Sep-07	Top	-	35.0		258											
	13-Sep-07	Bottom	-	35.2		262											
	15-Jul-08	Top	7.3	30.4		191											
	15-Jul-08	Bottom	7.3	44.7		139					1950	268					
	17-Aug-08	Top	8.0	33.1		141					329						
	17-Aug-08	Bottom	8.0	33.6		145					327						
	11-Sep-08	Top	7.6	34.4		239											
	11-Sep-08	Bottom	7.6	35.1		246											
P.O. Lake	23-Jul-06	Top	7.4	51.2		106											
	15-Aug-06	Top	8.3	55.9		115										1.5	
	8-Sep-06	Top	8.3	56.3		176										2.2	
	17-Jul-07	Top	7.4	51.9		121										1.3	
	15-Aug-07	Top	7.0	57.4		369										1.3	
	11-Sep-07	Top	7.1	55.0		527					314					1.2	
	14-Jul-08	Top	7.7	38.2		158											
	17-Aug-08	Top	7.8	49.3		394										1.2	
	10-Sep-08	Top	7.9	53.4		923		1.54			581					1.3	
Windy Lake	2-Jun-06	Top	6.7	76.0												1.7	
	2-Jun-06	Bottom	6.7	77.4												1.6	
	24-Jul-06	Top	6.9	69.2												1.1	
	24-Jul-06	Bottom	6.9	67.9												1.3	
	18-Aug-06	Top	8.2	68.7												1.5	
	18-Aug-06	Bottom	8.2	68.6												1.7	
	9-Sep-06	Top	8.1	70.0												2.1	
	9-Sep-06	Bottom	8.1	69.4												2.3	
	24-May-07	Top	7.5	80.7												2.2	
	24-May-07	Bottom	7.5	80.7												2.3	
	18-Jul-07	Bottom	7.3	78.7												1.6	
	20-Aug-07	Top	6.4	67.2		89.7										1.1	
	20-Aug-07	Bottom	6.4	65.3		93.3											
	15-Sep-07	Top	-	70.0		110											
	15-Sep-07	Bottom	-	70.4		146											
	19-Aug-08	Top	8.4	65.5												2	
	19-Aug-08	Bottom	8.4	66.0		107										2.3	
	14-Sep-08	Top	8.1	72.9												1.2	
	14-Sep-08	Bottom	8.1	72.7												1.3	

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Wolverine lake	1-Jun-06	Bottom	6.6	35.8			0.016										
	22-Jul-06	Top	8.1	55.4												1.1	
	22-Jul-06	Bottom	8.1	55.9												1.3	
	12-Aug-06	Top	7.7	57.1												1.5	
	8-Sep-06	Top	8.3	58.1												1.4	
	23-May-07	Top	7.3	148												4.4	
	17-Jul-07	Top	7.8	53.2												1.3	
	15-Aug-07	Top	6.8	58.5		168										1.1	
	23-May-08	Top	6.7	181	560	205			275		729	565					
	14-Jul-08	Top	7.8	48.9													
	15-Aug-08	Top	8.3	57.8												1.5	
Aimaokatalok Inflow	23-Jun-06		7.4	14.0		176					450						
	16-Jul-06		7.2	16.1		135	0.010				417						
	13-Aug-06		7.2	18.8							544						
	10-Sep-06		7.1	26.1		120					573						
	23-Jun-07		-	13.1		728	0.007	1.4			1020	63.9					
	20-Jul-07		6.6	19.5							521						
	20-Aug-07		6.5	21.6		206					393						
	10-Sep-07		6.1	24.2		144					329						
	24-Jun-08		6.6	11.0		836		1.3			887						
	19-Jul-08		7.3	16.4		123	0.026				517						
	13-Aug-08		7.2	19.6		196					643						
	8-Sep-08		8.4	21.2		302					425						
Aimaokatalok Outflow	23-Jun-06		-	12.7			0.008										
	23-Jun-07		6.1	13.7		27.3											
	20-Jul-07		6.2	12.4		30.5	0.009										
	19-Aug-07		6.2	12.4		42.7											
	10-Sep-07		6.0	13.1		59.8											
	24-Jun-08		6.6	12.9		122											
Aimaokatalok River	23-Jun-06		-	6.8			0.004										
	13-Aug-06		6.9	10.0													26.1
	23-Jun-07		6.0	10.3		153					375						
	21-Jul-07		6.3	15.3		16.3											
	9-Sep-07		6.3	12.9		20.3											
	24-Jun-08		6.7	7.3		155											
	15-Aug-08		7.5	7.97							350						
	15-Sep-08		7.3	11.1						3.7							
Fickle Duck Outflow	24-Jun-06		7.1	15.3		275					605						
	17-Jul-06		6.5	26.7		666	0.011	1.2			2760						
	13-Aug-06		6.3	22.7		407					1630						
	10-Sep-06		6.7	25.7		158					671			55			
	23-Jun-07		6.2	16.6		80.4											
	20-Jul-07		6.0	32.8		274					3460	139					
	20-Aug-07		6.5	26.3		125					312						
	26-Jun-08		6.4	14.5		327					509						
	18-Jul-08		6.9	16.8							505						
	14-Aug-08		7.3	25.8		108					366						
	15-Sep-08		7.3	30.7		328				2.3	540						
Koignuk River	2-Jul-07		6.5	13.1		317					313						
	19-Jul-07		6.6	14.3		112											
	18-Aug-07		6.8	21.6		650	0.024				523						
	16-Sep-07		6.9	20.5		403					366						
	23-Jun-08		7.1	15.9		1360		2.2			1160						
	17-Jul-08		7.3	12.7		238											
	19-Aug-08		7.8	16.2		297											
	14-Sep-08		8.0	17.5		353	0.165	3.1			315						
Reference Outflow	23-Jun-06		7.5	11.1		178											
	18-Jul-06		6.6	15.3							324						
	13-Aug-06		7.8	13.3		154					369						
	10-Sep-06		7.2	20.2		118											
	23-Jun-07		6.1	15.1		173					356						
	20-Jul-07		6.7	14.1		160					506						
	9-Sep-07		6.4	18.9		54.2											
	24-Jun-08		6.7	9.07		290					350						
	18-Jul-08		7.0	11.4							366						
Stickleback outflow	17-Jul-06		6.9	69.6		116					602	82.8					
	13-Aug-06		-	72.3								60.6					
	10-Sep-06		6.3	75.8		13.6					1030	166					
	23-Jun-07		6.0	9.7		30.2						152					

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Doris Outflow	27-Jun-05		6.9	35.3		145											
	5-Aug-05		7.0	42.7			0.002										
	20-Aug-05		7.6	44.2		774	0.005	1.4		2.1	888						
	1-Sep-05		7.6	40.9				1.3								1.1	
	18-Jun-06		7.4	36.4		106											
	30-Jun-06		7.6	38.5													
	7-Jul-06		7.3	38.8												1.4	
	13-Jul-06		6.5	41.3												1.2	
	28-Jul-06		6.2	44.2		59.9											
	4-Aug-06		7.4	43.2												1.3	
	11-Aug-06		6.2	44.7		41.9										1.1	
	18-Aug-06		7.9	47.5												1.6	
	26-Aug-06		7.9	44.6												1.7	
	1-Sep-06		8.0	45.9		146					356	64.2				1.6	
	9-Sep-06		7.7	48.2												1.4	
	9-Sep-06		7.6	46.0												1.6	
	20-Jun-07		7.1	55.1						3.3							
	7-Jul-07		6.1	34.5		78.5											
	14-Jul-07		6.8	50.0												1.2	
	27-Jul-07		5.7	45.6		50.3										1.3	
	12-Aug-07		6.2	45.1		67.0											
	31-Aug-07		-	42.2		159											
	22-Jun-08		7.0	41.8		414				2.1	664						
	14-Aug-08		8.0	45.1												1.1	
	12-Sep-08		7.5	46.2													
Little Roberts Outflow	20-Jun-04		-	43.0		243											
	16-Jul-04		-	38.0		114											
	19-Aug-04		-	-		191											
	12-Sep-04		-	44.0		140											
	22-Sep-04		-	43.0		151											
	28-Jun-05		7.0	36.2		498					656						
	19-Aug-05		7.5	40.2												1.34	
	31-Aug-05		7.4	41.8		156		1.4									
	14-Sep-05		7.5	34.9												1.35	
	18-Jun-06		7.6	30.9		379		1.1			318						
	13-Jul-06		6.7	38.9												1	
	10-Aug-06		7.4	42.9												1.3	
	9-Sep-06		7.6	49.2												1.9	
	20-Jun-07		6.8	37.2		155						74.4				1.2	
	14-Jul-07		6.8	35.9			0.034										
	12-Aug-07		6.9	47.2		179											
	19-Jun-08		6.8	41.5		563					672						
	17-Jul-08		7.7	43.3		119											
	14-Aug-08		7.8	44.4												1.1	
	12-Sep-08		7.8	43.0												1.1	
Roberts Outflow	20-Jun-04		-	35.0		147											
	17-Jul-04		-	33.0		153											
	19-Aug-04		-	-		315											
	12-Sep-04		-	38.0		108											
	22-Sep-04		-	36.0		141											
	28-Jun-05		6.9	29.0		813		1.3			656						
	17-Jul-05		7.1	34.9		102											
	5-Aug-05		7.0	35.7		104											
	31-Aug-05		7.4	35.1		169		1.3									
	13-Sep-05		7.4	40.8		126											
	18-Jun-06		7.5	28.6		383		1.1			313						
	13-Jul-06		7.4	35.2		228										1.1	
	10-Aug-06		7.1	36.9												1.2	
	9-Sep-06		7.9	36.2												1.2	
	20-Jun-07		7.0	33.6		241										1.4	
	12-Aug-07		6.7	37.7		241	0.027			2.4							
	16-Sep-07		7.0	41.1		104											
	19-Jun-08		6.8	30.9		668		1.1			663						
	17-Jul-08		8.6	32.9		133											
	12-Sep-08		8.1	40.7		117											

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Tail Outflow	21-Aug-05		7.2	37.0							732						
	20-Jul-06		7.3	35.2							358						
	28-Jul-06		6.0	39.6		12.1											
	4-Aug-06		6.3	44.0		16.8					301						
	11-Aug-06		6.0	59.2		16.9					507					1.2	
	18-Aug-06		7.0	73.3							634					1.5	
	26-Aug-06		6.9	79.7							853					2.0	
	1-Sep-06		6.9	92.2							1150					2.2	
	9-Sep-06		6.9	74.6							1070					1.9	
	7-Jul-07		5.8	36.0		30.2	0.016										
	27-Jul-07		6.2	36.7		15.1											
	12-Aug-07		6.2	38.9		10.2											
	18-Aug-07		6.4	37.8		23.4											
	25-Aug-07		6.3	34.2		15.8											
	9-Sep-07		6.1	36.1		21.9											
	14-Aug-08		7.1	38.1							935						
Glenn Outflow	22-Jun-07		6.9	56.1		195				2.6						1.5	
	19-Jul-07		7.5	55.3		611		1.2		2.4	550					1.4	
	12-Aug-07		7.1	68.9		570				2.9	357					1.3	
	15-Sep-07		-	75.9		694		1.2		4.1	457						
	19-Jun-08		6.8	47.3		267				2.4							
	17-Jul-08		7.8	61.0		700		1.16		2.9	535						
	19-Aug-08		8.1	70.9		605				3.1	427					1.7	
	13-Sep-08		8.3	69.2		858		1.5		3.5	675					1.1	
Ogama Outflow	19-Jun-06		6.6	37.8		290					323						
	21-Jul-06		7.7	40.7		181											
	12-Aug-06		7.5	42.9												1.3	
	9-Sep-06		7.5	45.2		119										2.0	
	22-Jun-07		6.9	45.3		150						90.8				1.6	
	17-Jul-07		7.3	42.1		198					368	62.5				1.1	
	12-Aug-07		6.9	45.7		258											
	17-Sep-07		6.8	46.8		221											
	23-Jun-08		6.8	35.0		385					641						
	17-Jul-08		7.5	33.5		240					437	62.5					
	19-Aug-08		8.0	35.7		203										1.1	
	14-Sep-08		8.3	40.4		338					333						
Patch outflow	19-Jun-06		6.6	29.4		135											
	22-Jul-06		7.7	59.7		253										1.4	
	12-Aug-06		6.8	60.2		441					376					1.5	
	9-Sep-06		7.6	62.0												1.2	
	22-Jun-07		5.6	12.1		320				3.0	497	141.0					
	12-Aug-07		6.8	59.3		763		1.2			491					1.3	
	17-Sep-07		6.9	64.7		214											
	17-Jul-08		7.6	55.3		199											
	19-Aug-08		8.2	62.8		144										1.6	
	10-Sep-08		8.0	68.6		159										1.1	
Pelvic Outflow	19-Jun-06		6.6	30.4		119						55.1					
	21-Jul-06		8.8	33.1		135											
	16-Aug-06		7.9	35.2		143										1.6	
	22-Jun-07		6.5	15.1												1.3	
	19-Jul-07		7.5	14.1		128										1.1	
	18-Aug-07		7.0	17.5		380					421						
	16-Sep-07		6.7	18.9		220											
	21-Jun-08		7.1	18.4		195					321						
	17-Jul-08		7.4	30.6		186					504						
	19-Aug-08		8.7	31.1		236										1.1	
	11-Sep-08		7.8	33.6		394					362	54.9					
P.O. Outflow	19-Jun-06		6.6	24.3		192											
	24-Jul-06		7.1	50.6		115											
	15-Aug-06		8.2	54.1												2.0	
	9-Sep-06		7.7	59.7		113										1.8	
	22-Jun-07		5.6	23.4		275					346	92.9					
	19-Jul-07		7.3	53.1		106										1.1	
	12-Aug-07		7.2	56.3		318					479					1.2	
	17-Sep-07		6.8	52.3		321											
	21-Jun-08		7.4	52.6		226											
	17-Jul-08		7.6	37.2		564		1.09			483						
	19-Aug-08		8.1	48.3		299										1.4	
	10-Sep-08		7.9	53.6		718		1.13			440					1.3	

Appendix B6. Freshwater Exceedences of Water Quality and Drinking Water Guidelines, 2003 - 2008

Site	Date	Strata	Field pH	Total Hardness (mg $CaCO_3$/L)	TDS (mg/L)	Total Aluminum (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Chloride (µg/L)	Total Copper (µg/L)	Total Iron (µg/L)	Total Manganese (µg/L)	Total Lead (µg/L)	Trace Mercury (ng/L)	Total Nickel (µg/L)	Total Selenium (µg/L)	Total Zinc (µg/L)
			CWQG[a] 6.5 - 9.0	-	-	CWQG 5 or 100 µg/L	CWQG 0.003-0.055 µg/L	CWQG 1 µg/L or USEPA 16 ug/L	-	CWQG 2-4 µg/L	CWQG 300 µg/L	-	CWQG 1-7 µg/L	CWQG 26 ng/L	CWQG 25-150 µg/L	CWQG 1 µg/L	CWQG 30 µg/L or USEPA 13-198 µg/L
			CDWG[a] 6.5 - 8.5	-	CDWG <500 mg/L	-	CDWG 5 µg/L	CDWG 50 µg/L	CDWG <250 ug/L	CDWG <1000 µg/L	CDWG <300 µg/L	CDWG <50 µg/L	CDWG 10 µg/L	CDWG 1000 ng/L	-	CDWG 10 µg/L	CDWG <5000 µg/L
Windy Outflow	19-Jun-06		7.0	69.1												**1.5**	
	23-Jul-06		7.5	68.7												**1.2**	
	12-Aug-06		7.5	67.7												**1.8**	
	16-Aug-06		-	35.3		**204**										**1.7**	
	9-Sep-06		6.9	68.2												**2.0**	
	22-Jun-07		7.2	24.9						**2.2**							
	19-Jul-07		6.9	54.4												**1.3**	
	22-Jun-08		7.5	39.3		**159**											
	17-Jul-08		7.5	53.8		**112**											
	19-Aug-08		8.0	71.3												**2.2**	
	14-Sep-08		8.0	73.0			**0.036**									**1.3**	

Notes:

True Colour Canadian Drinking Water Aesthetic Objective exceedences were not included due to most samples exceeding these values

[a] All guidelines are explained in Appendix B1.

Exceedances - Aquatic Life

Exceedances - Drinking Water

Exceedances - Aquatic Life and Drinking Water

APPENDIX B7

ANALYTICAL RESULTS FOR MARINE WATER QUALITY SAMPLES

Appendix B7. Analytical results for marine water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	Hope Bay Top			Hope Bay Bottom		
			16-Jul-08	19-Aug-08	13-Sep-08	16-Jul-08	19-Aug-08	13-Sep-08
Physical								
Alkalinity (Total as CaCO3)	mg/L		11	28	68	95	80	76
Specific Conductivity (lab)	µS/cm		4000	27000	27000	41000	30000	30000
Total Dissolved Solids	mg/L		2200	15000	15000	27000	19000	19000
Total Suspended Solids	mg/L		<4	11	11	11	11	11
Hardness (Total as CaCO3)	mg/L		264	3640	3640	4950	3160	3160
Hardness (Dissolved as CaCO3)	mg/L		283	3810	3810	5080	3200	3200
Field pH	pH Unit	7.0 - 8.7	7.6	7.9	8.1	7.6	7.9	8.1
Nutrients								
Total Phosphorus	mg/L		0.006	<0.05	0.061	0.029	<0.05	<0.05
Total Kjeldahl Nitrogen	mg/L		0.14	0.13	0.13	0.13	0.1	0.1
Total Nitrogen	mg/L		0.14	0.13	0.13	0.13	0.1	0.1
Ammonia - N	mg/L		0.008	0.017	0.017	0.041	0.02	0.02
Nitrite+Nitrate as N	mg/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrite as N	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate	mg/L	3.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Organics								
Organic Carbon (dissolved)	mg/L		2.9	2.4	2.4	0.8	2.2	2.2
Organic Carbon (total)	mg/L		3.3	2.6	2.6	1.2	3	3
Chlorophyll a	µg/L		0.41	0.3	0.44			
Major Ions								
Bicarbonate	mg/L		14	83	83	120	92	92
Carbonate	mg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium (total)	mg/L		20.1	270	269	366	235	235
Calcium (dissolved)	mg/L		21.7	285	267	377	241	241
Chloride	mg/L		1100	9100	9100	14000	9900	9900
Magnesium (total)	mg/L		52	721	729	980	625	625
Magnesium (dissolved)	mg/L		55.5	752	703	1010	632	632
Potassium (total)	µg/L		16.7	221	220	328	192	192
Potassium (dissolved)	µg/L		18	220	233	348	193	193
Sodium (total)	µg/L		419	6110	6190	8620	5350	5350
Sodium (dissolved)	µg/L		461	6380	5980	8910	5340	5340
Sulfate	mg/L		160			2000		
Total Metals								
Aluminum	µg/L		98	20	19	22	26	26
Antimony	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	12.5	1.2	1.2	1.3	2.6	1.1	1.1
Barium	µg/L		3	7	7	11	6	6
Beryllium	µg/L		<0.1	<1	<1	<0.1	<1	<1
Bismuth	µg/L		<1	<1	<1	<1	<1	<1
Boron	µg/L		206	2200	2160	2930	1950	1950
Cadmium	µg/L	0.12	0.02	<0.05	0.06	***0.15***	<0.05	<0.05
Chromium	µg/L		<1	0.9	0.8	<1	0.7	0.7
Cobalt	µg/L		<0.5	<0.1	<0.1	<0.5	<0.1	<0.1
Copper	µg/L		1.1	0.8	0.9	0.8	1	1
Iron	µg/L		210	59	60	33	66	66
Lead	µg/L		<0.2	<0.1	<0.1	<0.2	<0.1	<0.1
Manganese	µg/L		6	3	2.9	5	3.1	3.1
Mercury	ng/L	16	1.5	1	<0.6	0.8	<0.6	<0.6
Molybdenum	µg/L		<1	6	6	9	5	5
Nickel	µg/L		<1	0.7	0.6	<1	0.7	0.7
Selenium	µg/L		0.3	0.7	0.8	0.6	0.7	0.7
Silver	µg/L		0.05	<0.05	<0.05	<0.02	<0.05	<0.05
Strontium	µg/L		308	4050	4040	6010	3600	3600
Thallium	µg/L		<0.05	<0.1	<0.1	<0.05	<0.1	<0.1
Titanium	µg/L		7	<10	<10	<5	<10	<10
Tin	µg/L		<5	<1	<1	<5	<1	<1
Uranium	µg/L		0.1	1.72	1.67	2.4	1.52	1.52
Vanadium	µg/L		<5	<10	<10	<5	<10	<10
Zinc	µg/L		<5	1	1	<5	<1	<1
Zirconium	µg/L		<0.5			<0.5		
Dissolved Metals								
Aluminum	µg/L		10	<10	<10	5	<10	<10
Antimony	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L		0.4	0.7	0.9	2.4	0.7	0.7
Barium	µg/L		2	7	7	11	7	7
Beryllium	µg/L		<0.1	<1	<1	<0.1	<1	<1
Bismuth	µg/L		<1	<1	<1	<1	<1	<1
Boron	µg/L		197	2160	2240	2990	2000	2000
Cadmium	µg/L		0.01	0.05	<0.05	0.12	<0.05	<0.05
Chromium	µg/L		<1	0.8	0.7	<1	0.7	0.7
Cobalt	µg/L		<0.5	<0.1	<0.1	<0.5	<0.1	<0.1
Copper	µg/L		0.8	1	0.9	0.9	0.9	0.9
Iron	µg/L		28	5	5	<5	7	7
Lead	µg/L		<0.2	<0.1	<0.1	<0.2	<0.1	<0.1
Manganese	µg/L		4	1.1	1.1	5	1.3	1.3
Molybdenum	µg/L		<1	6	6	9	5	5
Nickel	µg/L		<1	0.6	0.5	<1	0.5	0.5
Selenium	µg/L		<0.1	0.8	1.1	0.4	<0.5	<0.5
Silver	µg/L		<0.02	<0.05	<0.05	0.05	<0.05	<0.05
Strontium	µg/L		321	4150	4350	6230	3690	3690
Thallium	µg/L		<0.05	<0.1	<0.1	<0.05	<0.1	<0.1
Tin	µg/L		<5	<1	<1	<5	<1	<1
Titanium	µg/L		<5	<10	<10	<5	<10	<10
Uranium	µg/L		<0.1	1.62	1.69	2.5	1.46	1.46
Vanadium	µg/L		<5	<10	<10	<5	<10	<10
Zinc	µg/L		<5	2	2	<5	2	2
Zirconium	µg/L		<0.5			<0.5		
Radionuclides								
Radium-226	Bq/L		<0.005	0.008	<0.005	<0.05	<0.005	<0.005
Other								
Cyanide	mg/L							
Fluoride	mg/L							
Sulphide	mg/L		0.007	0.006	0.006	0.009	0.006	0.006
Silicon (total)	mg/L		354	595	600	515	583	583
Silicon (dissolved)	mg/L		278	514	527	761	532	532
Sulphur (total)	mg/L		52	607	607	813	529	529
Sulphur (dissolved)	mg/L		46	598	636	823	530	530

Notes: Bq/L = Becquerel per litre; NTU = nephlometric turbidity units.

[a]Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life (CCME 1999, 2007).

Exceedances - Aquatic Life

Appendix B7. Analytical results for marine water quality samples, 2008

Parameter	Units	CWQG - Aquatic Life[a]	Roberts Bay Top			Roberts Bay Bottom		
			16-Jul-08	19-Aug-08	13-Sep-08	16-Jul-08	19-Aug-08	13-Sep-08
Physical								
Alkalinity (Total as CaCO3)	mg/L		25	63	82	26	61	83
Specific Conductivity (lab)	µS/cm		10000	33000	33000	11000	33000	33000
Total Dissolved Solids	mg/L		5400	21000	21000	6300	21000	21000
Total Suspended Solids	mg/L		5	27	25	4	7	7
Hardness (Total as CaCO3)	mg/L		1050	4550	4550	1120	4630	4630
Hardness (Dissolved as CaCO3)	mg/L		1070	4680	4680	1090	4880	4880
Field pH	pH Unit	7.0 - 8.7	7.4	8.0	8.1	7.4	8.0	8.1
Nutrients								
Total Phosphorus	mg/L		0.008	<0.05	<0.05	0.008	<0.05	<0.05
Total Kjeldahl Nitrogen	mg/L		0.1	0.08	0.08	0.11	0.06	0.06
Total Nitrogen	mg/L		0.1	0.08	0.08	0.11	0.06	0.06
Ammonia - N	mg/L		0.008	0.02	0.02	0.016	0.02	0.02
Nitrite+Nitrate as N	mg/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrite as N	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate	mg/L	3.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Organics								
Organic Carbon (dissolved)	mg/L		1.3	1.7	1.7	1.3	<0.5	<0.5
Organic Carbon (total)	mg/L		1.5	1.5	1.5	1.2	1.9	1.9
Chlorophyll a	µg/L		0.47	0.47	0.36			
Major Ions								
Bicarbonate	mg/L		31	99	99	32	100	100
Carbonate	mg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium (total)	mg/L		77.6	336	336	82.3	336	336
Calcium (dissolved)	mg/L		79.6	346	346	82	360	360
Chloride	mg/L		3200	11000	11000	3300	12000	12000
Magnesium (total)	mg/L		207	901	901	222	919	919
Magnesium (dissolved)	mg/L		212	928	928	215	966	966
Potassium (total)	µg/L		69.1	275	275	74.3	280	280
Potassium (dissolved)	µg/L		70.2	289	289	72	299	299
Sodium (total)	µg/L		1780	7730	7730	1910	7890	7890
Sodium (dissolved)	µg/L		1820	7920	7920	1840	8250	8250
Sulfate	mg/L		430			470		
Total Metals								
Aluminum	µg/L		106	26	26	123	21	21
Antimony	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L	12.5	1.3	1.4	1.4	1.7	1.4	1.4
Barium	µg/L		4	8	8	5	8	8
Beryllium	µg/L		<0.1	<1	<1	<0.1	<1	<1
Bismuth	µg/L		<1	<1	<1	<1	<1	<1
Boron	µg/L		826	2580	2580	883	2640	2640
Cadmium	µg/L	0.12	0.05	0.06	0.06	0.05	0.05	0.05
Chromium	µg/L		<1	1	1	<1	0.8	0.8
Cobalt	µg/L		<0.5	<0.1	<0.1	<0.5	<0.1	<0.1
Copper	µg/L		1	0.8	0.8	0.9	0.7	0.7
Iron	µg/L		182	57	57	181	46	46
Lead	µg/L		<0.2	<0.1	<0.1	<0.2	<0.1	<0.1
Manganese	µg/L		7	3.2	3.2	6	2.8	2.8
Mercury	ng/L	16	0.9	<0.6	<0.6	1.1	0.7	0.8
Molybdenum	µg/L		2	7	7	2	8	8
Nickel	µg/L		<1	0.8	0.8	<1	0.7	0.7
Selenium	µg/L		0.4	<0.5	<0.5	0.8	<0.5	<0.5
Silver	µg/L		<0.02	<0.05	<0.05	<0.02	<0.05	<0.05
Strontium	µg/L		1250	5000	5000	1380	5070	5070
Thallium	µg/L		<0.05	<0.1	<0.1	<0.05	<0.1	<0.1
Titanium	µg/L		7	12	12	13	15	15
Tin	µg/L		<5	<1	<1	<5	<1	<1
Uranium	µg/L		0.5	2.07	2.07	0.5	2.13	2.13
Vanadium	µg/L		<5	<10	<10	<5	<10	<10
Zinc	µg/L		<5	2	2	<5	<1	<1
Zirconium	µg/L		<0.5			<0.5		
Dissolved Metals								
Aluminum	µg/L		7	40	40	8	29	29
Antimony	µg/L		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/L		0.9	1	1	0.9	1	1
Barium	µg/L		4	9	9	4	9	9
Beryllium	µg/L		<0.1	<1	<1	<0.1	<1	<1
Bismuth	µg/L		<1	<1	<1	<1	<1	<1
Boron	µg/L		843	2650	2650	840	2760	2760
Cadmium	µg/L		0.02	0.07	0.07	0.03	0.07	0.07
Chromium	µg/L		<1	0.7	0.7	<1	0.8	0.8
Cobalt	µg/L		<0.5	<0.1	<0.1	<0.5	<0.1	<0.1
Copper	µg/L		0.7	0.6	0.6	0.6	0.7	0.7
Iron	µg/L		8	<2	<2	14	<2	<2
Lead	µg/L		<0.2	<0.1	<0.1	<0.2	<0.1	<0.1
Manganese	µg/L		3	1.1	1.1	3	0.8	0.8
Molybdenum	µg/L		2	7	7	2	8	8
Nickel	µg/L		<1	0.6	0.6	<1	0.5	0.5
Selenium	µg/L		0.4	<0.5	<0.5	0.4	<0.5	<0.5
Silver	µg/L		<0.02	<0.05	<0.05	0.04	<0.05	<0.05
Strontium	µg/L		1230	5370	5370	1280	5450	5450
Thallium	µg/L		<0.05	<0.1	<0.1	<0.05	<0.1	<0.1
Tin	µg/L		<5	<1	<1	<5	<1	<1
Titanium	µg/L		<5	<10	<10	<5	<10	<10
Uranium	µg/L		0.4	2.1	2.1	0.4	2.15	2.15
Vanadium	µg/L		<5	<10	<10	<5	<10	<10
Zinc	µg/L		<5	<1	<1	<5	<1	<1
Zirconium	µg/L		<0.5			<0.5		
Radionuclides								
Radium-226	Bq/L							
Other								
Cyanide	mg/L							
Fluoride	mg/L							
Sulphide	mg/L		0.005	0.006	0.006	0.007	0.005	0.005
Silicon (total)	mg/L		447	566	566	443	587	587
Silicon (dissolved)	mg/L		339	509	509	314	558	558
Sulphur (total)	mg/L		172	761	761	185	757	757
Sulphur (dissolved)	mg/L		183	775	775	190	805	805

Notes: Bq/L = Becquerel per litre; NTU = nephlometric turbidity units.

[a]Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life (CCME 1999, 2007).

Exceedances - Aquatic Life

APPENDIX B8

MARINE WATER QUALITY GUIDELINE EXCEEDENCES

Appendix B8. Marine Water Quality Guideline Exceedances, 2004 to 2008

Site	Date	Strata	pH	Total Hardness (mg CaCO3/L)	Total Arsenic (µg/L)	Total Cadmium (µg/L)
			CWQG 7.0-8.7		CWQG 12.5 ug/L	CWQG 0.12 ug/L
Hope Bay	16-Jul-08	Bottom	7.6	4950		0.15
Roberts Bay	14-Aug-04	-	7.7	2660	15.2	
Roberts Bay	16-Aug-04	-	-	-	13.1	
Roberts Bay	9-Sep-04	-	7.8	3250	22.3	
Roberts Bay	18-Aug-05	Top	-	-	22.1	
Roberts Bay	14-Sep-05	Top	7.77	2600	21.2	
Roberts Bay	31-May-06	Middle	7.74	2750	15.2	
Roberts Bay	20-Jul-06	Top	7.86	2870	13.3	
Roberts Bay	20-Jul-06	Bottom	7.88	2780	11.4	
Roberts Bay	12-Aug-06	Top	7.89	3440	25.6	
Roberts Bay	12-Aug-06	Bottom	7.87	3520	27.2	
Roberts Bay	11-Sep-06	Top	7.90	4490	23.7	
Roberts Bay	11-Sep-06	Bottom	7.93	4550	21.6	

Note: No exceedences in 2007; No exceedences in Roberts Bay 2007; Hope Bay not sampled prior to 2007

APPENDIX C1

RAW FISH CAPTURE DATA

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
2	SLSC	54								BP	15-Jul-08	KRBP-02	Koignuk River			C	
3	SLSC	46								BP	15-Jul-08	KRBP-02	Koignuk River			C	
8	NNST	63								BP	15-Jul-08	KRBP-04	Koignuk River			C	
9	NNST	57								BP	15-Jul-08	KRBP-04	Koignuk River			C	
10	SLSC	69								BP	15-Jul-08	KRBP-04	Koignuk River			C	
11	SLSC	67								BP	15-Jul-08	KRBP-04	Koignuk River			C	
12	SLSC	68								BP	15-Jul-08	KRBP-04	Koignuk River			C	
13	SLSC	46								BP	15-Jul-08	KRBP-04	Koignuk River			C	
14	SLSC	45								BP	15-Jul-08	KRBP-04	Koignuk River			C	
15	SLSC	46								BP	15-Jul-08	KRBP-04	Koignuk River			C	
16	SLSC	45								BP	15-Jul-08	KRBP-04	Koignuk River			C	
17	SLSC	55								BP	15-Jul-08	KRBP-04	Koignuk River			C	
18	NNST	52								BP	15-Jul-08	KRBP-05	Koignuk River			C	
19	NNST	73								BP	15-Jul-08	KRBP-05	Koignuk River			C	
20	NNST	42								BP	15-Jul-08	KRBP-05	Koignuk River			C	
21	NNST	44								BP	15-Jul-08	KRBP-05	Koignuk River			C	
22	NNST	61								BP	15-Jul-08	KRBP-05	Koignuk River			C	Parasite on head
23	NNST	42								BP	15-Jul-08	KRBP-05	Koignuk River			C	
24	NNST	43								BP	15-Jul-08	KRBP-05	Koignuk River			C	
25	NNST	37								BP	15-Jul-08	KRBP-05	Koignuk River			C	
26	NNST	39								BP	15-Jul-08	KRBP-05	Koignuk River			C	
27	NNST	30								BP	15-Jul-08	KRBP-05	Koignuk River			C	
28	NNST	36								BP	15-Jul-08	KRBP-05	Koignuk River			C	
30	SLSC	45								BP	16-Jul-08	KRBP-06	Koignuk River			C	
31	SLSC	63								BP	16-Jul-08	KRBP-06	Koignuk River			C	
32	SLSC	40								BP	16-Jul-08	KRBP-06	Koignuk River			C	
33	SLSC	26								BP	16-Jul-08	KRBP-06	Koignuk River			C	
34	ARGR	60								BP	16-Jul-08	KRBP-06	Koignuk River			C	
35	NNST	70								BP	16-Jul-08	KRBP-06	Koignuk River			C	
36	NNST	57								BP	16-Jul-08	KRBP-06	Koignuk River			C	
37	NNST	56								BP	16-Jul-08	KRBP-06	Koignuk River			C	
38	NNST	55								BP	16-Jul-08	KRBP-06	Koignuk River			C	
39	NNST	39								BP	16-Jul-08	KRBP-06	Koignuk River			C	
40	NNST	30								BP	16-Jul-08	KRBP-06	Koignuk River			C	
41	NNST	29								BP	16-Jul-08	KRBP-06	Koignuk River			C	
42	NNST	21								BP	16-Jul-08	KRBP-06	Koignuk River			C	
43	NNST	40								BP	16-Jul-08	KRBP-07	Koignuk River			C	
44	NNST	52								BP	16-Jul-08	KRBP-07	Koignuk River			C	
45	NNST	27								BP	16-Jul-08	KRBP-07	Koignuk River			C	
46	NNST	28								BP	16-Jul-08	KRBP-07	Koignuk River			C	
47	NNST	30								BP	16-Jul-08	KRBP-07	Koignuk River			C	
48	NNST	25								BP	16-Jul-08	KRBP-07	Koignuk River			C	
49	NNST	36								BP	16-Jul-08	KRBP-07	Koignuk River			C	
50	NNST	30								BP	16-Jul-08	KRBP-07	Koignuk River			C	
51	NNST	29								BP	16-Jul-08	KRBP-07	Koignuk River			C	
52	NNST	38								BP	16-Jul-08	KRBP-07	Koignuk River			C	
53	NNST	51								BP	16-Jul-08	KRBP-07	Koignuk River			C	
54	BURB	468	750	0.73						BP	16-Jul-08	KRBP-07	Koignuk River			C	Skinny
55	SLSC	40								BP	16-Jul-08	KRBP-08	Koignuk River			C	
56	SLSC	54								BP	16-Jul-08	KRBP-08	Koignuk River			C	
57	SLSC	46								BP	16-Jul-08	KRBP-08	Koignuk River			C	
59	NNST	30								BP	16-Jul-08	KRBP-09	Koignuk River			C	
60	NNST	21								BP	16-Jul-08	KRBP-09	Koignuk River			C	
61	NNST	42								BP	16-Jul-08	KRBP-09	Koignuk River			C	
62	ARGR	59								BP	16-Jul-08	KRBP-10	Koignuk River			M	Preserved
63	NNST	59								BP	16-Jul-08	KRBP-10	Koignuk River			C	
64	NNST	45								BP	16-Jul-08	KRBP-10	Koignuk River			C	
65	NNST	53								BP	16-Jul-08	KRBP-10	Koignuk River			C	
66	ARGR	59								BP	16-Jul-08	KRBP-10	Koignuk River			C	
67	NNST	64								BP	16-Jul-08	KRBP-10	Koignuk River			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
68	NNST	32								BP	16-Jul-08	KRBP-10	Koignuk River			C	
69	ARGR	64								BP	16-Jul-08	KRBP-10	Koignuk River			C	
70	ARGR	53								BP	16-Jul-08	KRBP-10	Koignuk River			C	
71	ARGR	50								BP	16-Jul-08	KRBP-10	Koignuk River			C	
72	SLSC	43								BP	16-Jul-08	KRBP-10	Koignuk River			C	
73	SLSC	44								BP	16-Jul-08	KRBP-10	Koignuk River			C	
74	NNST	60								BP	16-Jul-08	KRBP-10	Koignuk River			C	
75	NNST	47								BP	16-Jul-08	KRBP-10	Koignuk River			C	
76	NNST	45								BP	16-Jul-08	KRBP-10	Koignuk River			C	
77	NNST	40								BP	16-Jul-08	KRBP-10	Koignuk River			C	
78	NNST	35								BP	16-Jul-08	KRBP-10	Koignuk River			C	
82	LKTR	805	5845	1.12						GN	19-Jul-08	PLGN-01	Patch Lake			C	Wedge cut out of left pelvic fin
83	LKWH	409	1040	1.52						GN	19-Jul-08	PLGN-01	Patch Lake			C	
84	LKWH	448	1435	1.60						GN	19-Jul-08	PLGN-01	Patch Lake			C	
85	LKWH	388	870	1.49						GN	19-Jul-08	PLGN-02	Patch Lake			C	
86	LKWH	390	800	1.35						GN	19-Jul-08	PLGN-02	Patch Lake			C	
87	LKWH	346	580	1.40						GN	19-Jul-08	PLGN-03	Patch Lake			C	
88	LKWH	334	425	1.14						GN	19-Jul-08	PLGN-03	Patch Lake			C	
89	LKWH	411	1015	1.46						GN	19-Jul-08	PLGN-03	Patch Lake			C	
90	LKWH	353	540	1.23						GN	19-Jul-08	PLGN-04	Patch Lake			C	
91	LKWH	299	340	1.27						GN	19-Jul-08	PLGN-04	Patch Lake			C	
92	LKWH	368	730	1.46						GN	19-Jul-08	PLGN-04	Patch Lake			C	
93	LKWH	325	445	1.30						GN	19-Jul-08	PLGN-04	Patch Lake			C	
94	CISC	267								GN	19-Jul-08	PLGN-04	Patch Lake			C	
95	LKWH	379	624	1.15						GN	20-Jul-08	PLGN-05	Patch Lake			C	
96	LKWH	404	861	1.31						GN	20-Jul-08	PLGN-05	Patch Lake			C	
97	CISC	279	235	1.08						GN	20-Jul-08	PLGN-05	Patch Lake			C	
98	CISC	257	188	1.11						GN	20-Jul-08	PLGN-05	Patch Lake			C	
99	CISC	225	120	1.05						GN	20-Jul-08	PLGN-05	Patch Lake			C	
100	LSCS	200	119	1.49						GN	20-Jul-08	PLGN-05	Patch Lake			C	
101	CISC	256	165	0.98						GN	20-Jul-08	PLGN-05	Patch Lake			M	
102	CISC	254	130	0.79						GN	20-Jul-08	PLGN-05	Patch Lake			M	
103	CISC	191	43	0.62						GN	20-Jul-08	PLGN-05	Patch Lake			C	
104	LKTR	660	2384	0.83			Green	3900	985121001832634	GN	20-Jul-08	PLGN-06	Patch Lake			C	
105	LKTR	861	5701	0.89			Green	3901	985121002025405	GN	20-Jul-08	PLGN-06	Patch Lake			C	
106	LKWH	312	340	1.12						GN	20-Jul-08	PLGN-06	Patch Lake			C	
107	LKWH	413	830	1.18						GN	20-Jul-08	PLGN-06	Patch Lake			C	
108	CISC	268	185	0.96						GN	20-Jul-08	PLGN-06	Patch Lake			C	
109	LKWH	338	463	1.20						GN	20-Jul-08	PLGN-06	Patch Lake			C	
110	LKWH	382	680	1.22						GN	20-Jul-08	PLGN-06	Patch Lake			C	
111	CISC	294	290	1.14						GN	20-Jul-08	PLGN-06	Patch Lake			C	
112	CISC	239	105	0.77						GN	20-Jul-08	PLGN-06	Patch Lake			C	
113	CISC	258	146	0.85						GN	20-Jul-08	PLGN-06	Patch Lake			C	
114	CISC	273	170	0.84						GN	20-Jul-08	PLGN-06	Patch Lake			C	
115	LKWH	287	204	0.86						GN	20-Jul-08	PLGN-06	Patch Lake			C	
116	LKWH	241	92	0.66						GN	20-Jul-08	PLGN-06	Patch Lake			C	
117	LKWH	299	268	1.00						GN	20-Jul-08	PLGN-06	Patch Lake			M	
118	CISC	248	104	0.68						GN	20-Jul-08	PLGN-06	Patch Lake			M	
119	CISC	251	140	0.89						GN	20-Jul-08	PLGN-06	Patch Lake			C	
120	CISC	240	93	0.67						GN	20-Jul-08	PLGN-06	Patch Lake			M	
121	CISC	236	93	0.71						GN	20-Jul-08	PLGN-06	Patch Lake			M	Eaten by LKTR
122	CISC	289	227	0.94						GN	20-Jul-08	PLGN-06	Patch Lake			M	
123	CISC	256	117	0.70						GN	20-Jul-08	PLGN-06	Patch Lake			M	
124	CISC	251	105	0.66						GN	20-Jul-08	PLGN-06	Patch Lake			M	
125	CISC	230	49	0.40						GN	20-Jul-08	PLGN-06	Patch Lake			M	Skinny
126	CISC	235	104	0.80						GN	20-Jul-08	PLGN-06	Patch Lake			M	
127	CISC	277	178	0.84						GN	20-Jul-08	PLGN-06	Patch Lake			M	
128	CISC	223	47	0.42						GN	20-Jul-08	PLGN-06	Patch Lake			M	Skinny
129	CISC	244	89	0.61						GN	20-Jul-08	PLGN-06	Patch Lake			M	
130	CISC	301	230	0.84						GN	20-Jul-08	PLGN-06	Patch Lake			M	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
131	CISC	251								GN	20-Jul-08	PLGN-06	Patch Lake			M	
132	CISC	283	163	0.72						GN	20-Jul-08	PLGN-06	Patch Lake			M	
133	CISC	193	84	1.17						GN	20-Jul-08	PLGN-07	Patch Lake			C	
134	CISC	198	121	1.56						GN	20-Jul-08	PLGN-07	Patch Lake			C	
135	CISC	197	91	1.19						GN	20-Jul-08	PLGN-07	Patch Lake			C	
136	CISC	181	100	1.69						GN	20-Jul-08	PLGN-07	Patch Lake			C	
137	CISC	170	83	1.69						GN	20-Jul-08	PLGN-07	Patch Lake			C	
138	CISC	299	131	0.49						GN	20-Jul-08	PLGN-07	Patch Lake			C	
139	CISC	232	145	1.16						GN	20-Jul-08	PLGN-07	Patch Lake			C	
140	CISC	199	96	1.22						GN	20-Jul-08	PLGN-07	Patch Lake			C	
141	CISC	302	325	1.18						GN	20-Jul-08	PLGN-07	Patch Lake			C	
142	LKTR	780	4274	0.90			Green	3902	985121001692428	GN	20-Jul-08	PLGN-07	Patch Lake			C	
143	LKTR	637	2827	1.09			Green	3904	985121001830337	GN	20-Jul-08	PLGN-07	Patch Lake			C	
144	LKWH	268	256	1.33						GN	20-Jul-08	PLGN-07	Patch Lake			M	
145	CISC	230	168	1.38						GN	20-Jul-08	PLGN-07	Patch Lake			M	
146	CISC	212	138	1.45						GN	20-Jul-08	PLGN-07	Patch Lake			M	
147	CISC	166	69	1.51						GN	20-Jul-08	PLGN-07	Patch Lake			M	
148	CISC	215	129	1.30						GN	20-Jul-08	PLGN-07	Patch Lake			M	Partially eaten in net
149	LKTR	820	6335	1.15			Green	3905	985121001921779	GN	22-Jul-08	PLGN-10	Patch Lake			C	Pit tag scar but reader would not read, new tag
150	LKWH	352	510	1.17						GN	22-Jul-08	PLGN-10	Patch Lake			C	
151	LKWH	354	540	1.22						GN	22-Jul-08	PLGN-10	Patch Lake			C	
152	CISC	287	270	1.14						GN	22-Jul-08	PLGN-10	Patch Lake			M	
154	LKWH	385	550	0.96						GN	22-Jul-08	PLGN-11	Patch Lake			C	
155	CISC	265	190	1.02						GN	22-Jul-08	PLGN-11	Patch Lake			M	
156	CISC	210	89	0.96						GN	22-Jul-08	PLGN-11	Patch Lake			M	
158	LKTR	665	2940	1.00			Green	3906	985121002037314	GN	22-Jul-08	PLGN-12	Patch Lake			C	
159	LKWH	419	990	1.35						GN	22-Jul-08	PLGN-12	Patch Lake			C	
160	CISC	224								GN	22-Jul-08	PLGN-12	Patch Lake			C	
161	LKTR	700	3945	1.15			Green	3907	985121001830485	GN	22-Jul-08	PLGN-12	Patch Lake			C	
162	CISC	226	86	0.75						GN	22-Jul-08	PLGN-12	Patch Lake			C	
163	LKTR	372	390	0.76	M	IM				GN	22-Jul-08	PLGN-12	Patch Lake			M	Kept for Heidi
168	LKTR	669	2239	0.75			Green	3908	985121001835648	GN	23-Jul-08	PLGN-13	Patch Lake			R	Old adipose clip
169	LKWH	355	476	1.06						GN	23-Jul-08	PLGN-13	Patch Lake			C	
170	LKWH	344	374	0.92						GN	23-Jul-08	PLGN-13	Patch Lake			C	
171	CISC	326	348	1.00						GN	23-Jul-08	PLGN-13	Patch Lake			C	
172	CISC	325								GN	23-Jul-08	PLGN-13	Patch Lake			M	
173	LKTR	727	2540	0.66			Green	3909	985121002039819	GN	23-Jul-08	PLGN-14	Patch Lake			C	Very skinny
174	LKTR	650	2324	0.85			Green	3910	985121001827918	GN	23-Jul-08	PLGN-14	Patch Lake			C	Gill injury
175	LKTR	671	3380	1.12			Green	0010	985121001918305	GN	23-Jul-08	PLGN-14	Patch Lake			R	
176	LKTR	535	1633	1.07			Green	3911	985121001907226	GN	23-Jul-08	PLGN-14	Patch Lake			C	
177	CISC	269	194	1.00						GN	23-Jul-08	PLGN-14	Patch Lake			C	
178	LSCS	246	113	0.76						GN	23-Jul-08	PLGN-14	Patch Lake			C	
179	CISC	228	89	0.75						GN	23-Jul-08	PLGN-14	Patch Lake			C	
180	CISC	269	182	0.94						GN	23-Jul-08	PLGN-14	Patch Lake			C	
181	LKWH	380	596	1.09						GN	23-Jul-08	PLGN-14	Patch Lake			M	
182	CISC	290			F	M				GN	23-Jul-08	PLGN-14	Patch Lake			M	
183	LSCS	220	58	0.54	M					GN	23-Jul-08	PLGN-14	Patch Lake			M	Skinny
184	LSCS	224	71	0.63	M					GN	23-Jul-08	PLGN-14	Patch Lake			M	Cysts on stomach
185	LSCS	234	58	0.45						GN	23-Jul-08	PLGN-14	Patch Lake			M	
186	CISC	294	167	0.66						GN	23-Jul-08	PLGN-15	Patch Lake			C	
187	LKWH	390	753	1.27						GN	23-Jul-08	PLGN-15	Patch Lake			C	
188	LKTR	825	7544	1.34			Green	3912	985120031629252	GN	23-Jul-08	PLGN-15	Patch Lake			R	
189	LKTR	935	11000	1.35			Green	3914	985121001872765	GN	23-Jul-08	PLGN-15	Patch Lake			C	
190	LKTR	750	4713	1.12			Green	3915	985120031624571	GN	23-Jul-08	PLGN-16	Patch Lake			R	Fish in belly, could see tail
191	LKTR	664	2592	0.89			Green	3916	985120031455598	GN	23-Jul-08	PLGN-16	Patch Lake			R	
192	LKWH	311	357	1.19						GN	23-Jul-08	PLGN-17	Patch Lake			C	
193	LKWH	293	316	1.26						GN	23-Jul-08	PLGN-17	Patch Lake			C	
195	LKTR	815	4761	0.88			Green	3917	985121002047871	GN	25-Jul-08	PLGN-20	Patch Lake			C	
196	LKWH	449	1165	1.29						GN	25-Jul-08	PLGN-20	Patch Lake			C	

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Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
197	CISC	234	168	1.31						GN	25-Jul-08	PLGN-20	Patch Lake			M	Eaten by LKTR
198	CISC	231	173	1.40						GN	25-Jul-08	PLGN-20	Patch Lake			M	Eaten by LKTR
199	LKWH	390	852	1.44						GN	25-Jul-08	PLGN-20	Patch Lake			C	
200	LKWH	402	863	1.33						GN	25-Jul-08	PLGN-19	Patch Lake			C	
201	LKTR	263	186	1.02						GN	25-Jul-08	PLGN-18	Patch Lake			C	Did not tag: not doing well
202	LKWH	404	740	1.12						GN	25-Jul-08	PLGN-21	Patch Lake			C	
203	LKWH	407	837	1.24						GN	25-Jul-08	PLGN-21	Patch Lake			C	
204	LKWH	308	357	1.22						GN	25-Jul-08	PLGN-21	Patch Lake			C	
205	CISC	229	129	1.07						GN	25-Jul-08	PLGN-21	Patch Lake			C	
206	LKTR	740	3936	0.97			Green	3919	985121001229914	GN	25-Jul-08	PLGN-21	Patch Lake			C	
207	LKTR	744	3761	0.91			Green	3920	985121002039941	GN	25-Jul-08	PLGN-21	Patch Lake			C	
208	LKWH	403	805	1.23	F					GN	25-Jul-08	PLGN-21	Patch Lake			M	
209	LKWH	431	909	1.14						GN	25-Jul-08	PLGN-21	Patch Lake			M	Stomach full of sand
210	CISC	190	75	1.09						GN	25-Jul-08	PLGN-22	Patch Lake			C	
211	CISC	210	85	0.92						GN	25-Jul-08	PLGN-22	Patch Lake			C	
212	LKWH	360	550	1.18						GN	25-Jul-08	PLGN-22	Patch Lake			C	
213	CISC	213	78	0.81						GN	25-Jul-08	PLGN-23	Patch Lake			C	
214	CISC	224	96	0.85						GN	25-Jul-08	PLGN-23	Patch Lake			C	
215	CISC	208	74	0.82						GN	25-Jul-08	PLGN-23	Patch Lake			C	
216	CISC	207	80	0.90						GN	25-Jul-08	PLGN-23	Patch Lake			C	
217	CISC	224	96	0.85						GN	25-Jul-08	PLGN-23	Patch Lake			C	
218	CISC	197	69	0.90						GN	25-Jul-08	PLGN-23	Patch Lake			C	
219	CISC	183	51	0.83						GN	25-Jul-08	PLGN-23	Patch Lake			C	
220	LKWH	465	1104	1.10						GN	25-Jul-08	PLGN-23	Patch Lake			C	
221	LKTR	763	4520	1.02			Green	2922	985120031630249	GN	25-Jul-08	PLGN-23	Patch Lake			R	
222	LKWH	420	891	1.20	M					GN	25-Jul-08	PLGN-23	Patch Lake			M	Fat; stomach full of isopods, gammarus, chironomids
223	CISC	264	201	1.09						GN	25-Jul-08	PLGN-23	Patch Lake			M	
224	CISC	199	61	0.77						GN	25-Jul-08	PLGN-23	Patch Lake			M	
225	CISC	214	81	0.83						GN	25-Jul-08	PLGN-23	Patch Lake			M	
226	CISC	244	150	1.03						GN	25-Jul-08	PLGN-24	Patch Lake			C	
227	LKWH	420	916	1.24						GN	25-Jul-08	PLGN-25	Patch Lake			C	
228	LKTR	695	3277	0.98			Green	2923	985120031581270	GN	25-Jul-08	PLGN-25	Patch Lake			R	
229	LKWH	402								GN	26-Jul-08	PLGN-26	Patch Lake			C	
230	LKWH	405								GN	26-Jul-08	PLGN-26	Patch Lake			C	
231	LKWH	389								GN	26-Jul-08	PLGN-26	Patch Lake			C	
232	LKWH	366								GN	26-Jul-08	PLGN-27	Patch Lake			C	
233	CISC	268								GN	26-Jul-08	PLGN-27	Patch Lake			C	
234	LKTR	696	3017	0.89			Green	3924		GN	26-Jul-08	PLGN-28	Patch Lake			R	Pit reader not working; has PIT scar
235	LKTR	767	4261	0.94			Green	3926		GN	26-Jul-08	PLGN-28	Patch Lake			R	Pit reader not working; has PIT scar; old bite marks
236	LKTR	740	3932	0.97			Green	3927		GN	26-Jul-08	PLGN-28	Patch Lake			R	Pit reader not working; has PIT scar
237	LKWH	361	578	1.23	M					GN	26-Jul-08	PLGN-28	Patch Lake			M	Cysts on stomach
238	CISC	273	236	1.16	F					GN	26-Jul-08	PLGN-28	Patch Lake			M	Cysts on stomach
239	LKWH	406	835	1.25						GN	26-Jul-08	PLGN-29	Patch Lake			C	
240	LKWH	378	669	1.24						GN	26-Jul-08	PLGN-29	Patch Lake			C	
241	LKWH	423	1042	1.38						GN	26-Jul-08	PLGN-29	Patch Lake			C	
242	LKWH	450	1130	1.24						GN	1-Aug-08	ALGN-02	Aimaokatalok Lake			C	
243	LKTR	545	1269	0.78			Green	3928		GN	1-Aug-08	ALGN-02	Aimaokatalok Lake			C	Skinny
244	CISC	173	63	1.22						GN	1-Aug-08	ALGN-03	Aimaokatalok Lake			C	
245	LKTR	866	5955	0.92			Green	3929		GN	1-Aug-08	ALGN-06	Aimaokatalok Lake			R	Old adipose clip

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
246	NNST	36								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
247	NNST	36								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
248	NNST	37								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
249	NNST	35								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
250	NNST	35								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
251	NNST	29								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
252	NNST	36								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
253	NNST	37								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
254	NNST	35								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
255	NNST	38								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
256	NNST	31								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
257	NNST	34								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
258	NNST	42								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
259	NNST	37								DN	1-Aug-08	ALDN-01	Aimaokatalok Lake			C	
260	LKTR	523	1406	0.98			Green	3930		GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			C	
261	LKTR	544	1565	0.97			Green	3931		GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			C	
262	LKTR	743	4544	1.11			Green	3932		GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			C	
263	CISC	180	54	0.93						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
264	CISC	169	56	1.16						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			C	
265	LSCS	184	60	0.96						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
266	LSCS	195	72	0.97						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
267	LSCS	181	57	0.96						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
268	LKWH	191	79	1.13						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
269	CISC	233	139	1.10						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
270	CISC	210	81	0.87						GN	1-Aug-08	ALGN-07	Aimaokatalok Lake			M	
271	NNST	59								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
272	NNST	44								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
273	NNST	52								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
274	NNST	46								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
275	NNST	43								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
276	NNST	41								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
277	NNST	45								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
278	NNST	40								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
279	NNST	45								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
280	NNST	20								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
281	NNST	20								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
282	NNST	24								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
283	NNST	21								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
284	NNST	22								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
285	NNST	24								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
286	NNST	24								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
287	NNST	21								BP	2-Aug-08	ALBP-01	Aimaokatalok Lake			C	
288	LKWH	466	1360	1.34						GN	2-Aug-08	ALGN-10	Aimaokatalok Lake			C	
289	LKTR	483	1204	1.07			Green	3933	985121002038034	GN	2-Aug-08	ALGN-11	Aimaokatalok Lake			C	
290	LKWH	435	1130	1.37						GN	2-Aug-08	ALGN-11	Aimaokatalok Lake			C	
291	LKWH	443	1254	1.44						GN	2-Aug-08	ALGN-11	Aimaokatalok Lake			C	
292	NNST	50								BP	2-Aug-08	ALBP-02	Aimaokatalok Lake			C	
293	NNST	21								BP	2-Aug-08	ALBP-02	Aimaokatalok Lake			C	
294	NNST	20								BP	2-Aug-08	ALBP-02	Aimaokatalok Lake			C	
295	LKWH	419	1113	1.51						GN	2-Aug-08	ALGN-11	Aimaokatalok Lake			C	
296	LKTR	465	1313	1.31					985121002604989	GN	2-Aug-08	ALGN-11	Aimaokatalok Lake			C	Fat; full stomach
297	Coregonid spp	39								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	Kept for identification
298	Coregonid spp	24								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	Kept for identification
299	Coregonid spp	32								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	Kept for identification
300	NNST	45								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	
301	NNST	49								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	
302	NNST	40								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	
303	NNST	21								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
304	NNST	33								SN	2-Aug-08	ALBS-01	Aimaokatalok Lake			C	
305	NNST	42								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
306	NNST	54								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
307	NNST	45								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
308	NNST	45								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
309	NNST	46								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
310	NNST	44								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
311	NNST	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
312	NNST	45								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			C	
313	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
314	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
315	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
316	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
317	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
318	Coregonid spp	28								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
319	Coregonid spp	33								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
320	Coregonid spp	36								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
321	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
322	Coregonid spp	33								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
323	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
324	Coregonid spp	31								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
325	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
326	Coregonid spp	24								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
327	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
328	Coregonid spp	31								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
329	Coregonid spp	26								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
330	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
331	Coregonid spp	28								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
332	Coregonid spp	26								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
333	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
334	Coregonid spp	28								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
335	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
336	Coregonid spp	31								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
337	Coregonid spp	22								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
338	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
339	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
340	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
341	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
342	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
343	Coregonid spp	33								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
344	Coregonid spp	37								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
345	Coregonid spp	27								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
346	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
347	Coregonid spp	25								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
348	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
349	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
350	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
351	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
352	Coregonid spp	36								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
353	Coregonid spp	24								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
354	Coregonid spp	25								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
355	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
356	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
357	Coregonid spp	31								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
358	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
359	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
360	Coregonid spp	25								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
361	Coregonid spp	27								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
362	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
363	Coregonid spp	25								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
364	Coregonid spp	32								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
365	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
366	Coregonid spp	33								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
367	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
368	Coregonid spp	34								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
369	Coregonid spp	31								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
370	Coregonid spp	41								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
371	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
372	Coregonid spp	34								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
373	Coregonid spp	24								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
374	Coregonid spp	29								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
375	Coregonid spp	35								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
376	Coregonid spp	30								SN	2-Aug-08	ALBS-02	Aimaokatalok Lake			M	
493	NNST	53								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	Parasite in belly
494	NNST	51								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
495	NNST	40								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			M	
496	NNST	38								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
497	NNST	37								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
498	NNST	39								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
499	NNST	58								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
500	NNST	56								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
501	NNST	39								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
502	NNST	36								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
503	NNST	49								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
504	NNST	50								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
505	NNST	37								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
506	NNST	36								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
507	NNST	37								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
508	NNST	41								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
509	NNST	34								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
510	NNST	37								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
511	NNST	38								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
512	NNST	42								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
513	NNST	58								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
514	NNST	37								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
515	NNST	35								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
516	NNST	43								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
517	NNST	33								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
518	NNST	42								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
519	NNST	45								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
520	NNST	42								BP	2-Aug-08	ALBP-03	Aimaokatalok Lake			C	
572	LSCS	240	141	1.02						GN	3-Aug-08	ALGN-12	Aimaokatalok Lake			C	
573	LSCS	202	105	1.27						GN	3-Aug-08	ALGN-12	Aimaokatalok Lake			C	
574	LSCS	200	105	1.31	F	IM				GN	3-Aug-08	ALGN-12	Aimaokatalok Lake			M	
575	LKTR	188	62	0.93					985121001687019	GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
576	LKWH	390	520	0.88						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
577	LKWH	467	1498	1.47						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
578	LKWH	425	983	1.28						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
579	LKWH	424	910	1.19						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
580	LKWH	375	623	1.18						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
581	LKWH	358	572	1.25						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
582	LKWH	465	1146	1.14						GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			C	
583	LKTR	530	1774	1.19			Green	3936	985121002023179	GN	3-Aug-08	ALGN-13	Aimaokatalok Lake			R	Old adipose clip
584	LKWH	475	1319	1.23						GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			C	
585	LKWH	403	761	1.16						GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			C	
586	LKWH	392	749	1.24						GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
587	LKWH	426	889	1.15						GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			C	
588	LKWH	421	968	1.30						GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			M	
589	LKTR	662	3009	1.04			Green	3937	985121001925327	GN	3-Aug-08	ALGN-14	Aimaokatalok Lake			C	
590	LKTR	900	6652	0.91			Green	3938	985121002027229	GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
591	LKTR	293	253	1.01					985121002040929	GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
592	LKTR	863	6706	1.04			Green	3939	985121002002824	GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
593	LKTR	636	2018	0.78			Green	3940	985121002024029	GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
594	LKWH	398	788	1.25						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
595	LKWH	427	957	1.23						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
596	LKWH	413	807	1.15						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
597	LKWH	430	1068	1.34						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
598	LKWH	369	654	1.30						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
599	LKWH	409	958	1.40						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
600	LKWH	410	898	1.30						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
601	LKWH	418	1076	1.47						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
602	LKWH	378	787	1.46						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
603	LSCS	196	89	1.18						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
604	LKWH	445	1178	1.34						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
605	CISC	209	75	0.82						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
606	LSCS	189	67	0.99						GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			C	
607	LSCS	181	66	1.11	F	M				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
608	LSCS	195	74	1.00	F	M				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
609	LSCS	184	61	0.98	F	M				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
610	LSCS	178	60	1.06	F	M				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
611	LSCS	202	77	0.93	F	M				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
612	CISC	203	86	1.03	M	IM				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	Pale liver
613	CISC	234	132	1.03	F	IM				GN	3-Aug-08	ALGN-15	Aimaokatalok Lake			M	
614	LKTR	793	3021	0.61			Green	3941	985121002040001	DN	3-Aug-08	ALDN-02	Aimaokatalok Lake			R	Old adipose clip
616	LKWH	455								GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			C	Weight could be off

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
617	LKWH	406	958	1.43						GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			C	
618	LKWH	481	1168	1.05	M					GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			M	Granular organs
619	LKWH	401	798	1.24	F					GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			M	
621	LKTR	508	1508	1.15			Green	3942	985121002044688	GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			C	
622	LKTR	883	5973	0.87			Green	3943	985121002046763	GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			R	Old adipose clip
623	LKTR	785	4863	1.01			Green	3944	985121001872133	GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			C	
624	LKTR	643	2057	0.77			Green	3945	985121001921189	GN	3-Aug-08	ALGN-16	Aimaokatalok Lake			C	
625	LKTR	465	1039	1.03	F	M				GN	3-Aug-08	ALGN-18	Aimaokatalok Lake	Otoliths	14+	M	tomach full of inverts; tapewor
626	LKTR	306	298	1.04						GN	3-Aug-08	ALGN-20	Aimaokatalok Lake			C	Not tagged; not doing well
627	LKWH	479	1390	1.26						GN	4-Aug-08	ALGN-22	Aimaokatalok Lake			C	Open wound on left side
628	LKTR	674	2330	0.76			Green	3946	985121001691637	GN	4-Aug-08	ALGN-22	Aimaokatalok Lake			C	
629	LKWH	461	1860	1.90						GN	4-Aug-08	ALGN-23	Aimaokatalok Lake			C	Big fish
630	LKTR	716	3992	1.09			Green	3948	985121002608325	GN	4-Aug-08	ALGN-23	Aimaokatalok Lake			C	
631	LKTR	600	2237	1.04			Green	3949	985121002038648	GN	4-Aug-08	ALGN-23	Aimaokatalok Lake			C	
632	LKTR	717	3827	1.04			Green	4750	985121001907616	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
633	LKWH	413	814	1.16						GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
634	LKWH	499	1552	1.25						GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
635	LKTR	757	3931	0.91			Green	4751	985121001872783	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
636	LKTR	729	3510	0.91			Green	4752	985121001200098	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
637	LKTR	794	6352	1.27			Green	4753	985121001869695	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	Had large whitefish in belly
638	LKTR	490	1223	1.04			Green	4754	985121002039583	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
639	LKTR	445	1015	1.15					985121002040331	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
640	LKWH	477	1303	1.20	M	M				GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			M	
641	LKTR	542	1566	0.98			Green	4755	985121001827319	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			C	
642	LKWH	472	1392	1.32						GN	4-Aug-08	ALGN-29	Aimaokatalok Lake			C	
643	LKWH	466	1237	1.22						GN	4-Aug-08	ALGN-29	Aimaokatalok Lake			C	
644	LKWH	444	1186	1.35	M	M				GN	4-Aug-08	ALGN-28	Aimaokatalok Lake	Scales		M	
645	LKWH	501	1540	1.22						GN	4-Aug-08	ALGN-28	Aimaokatalok Lake			C	
646	LKTR	794	6352	1.27			Green	4753	985121001869695	GN	4-Aug-08	ALGN-24	Aimaokatalok Lake			R	Same net; same day recap

Appendix C1. Data for Individual Fish Captured, 2008

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647	LKTR	198	86	1.11						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
648	LKTR	718	3363	0.91			Green	4756	985121001831716	GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
649	LKWH	475	1345	1.25						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
650	LKWH	448	1173	1.30						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
651	LKWH	254	199	1.21						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
652	LKWH	313	372	1.21						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
653	LKWH	313	369	1.20						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
654	LSCS	180	56	0.96						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
655	LSCS	181	51	0.86						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
656	LKWH	350	539	1.26						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
657	LSCS	186	51	0.79						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			C	
658	LSCS	196	71.1	0.94						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	Preserved
659	CISC	204	90.5	1.07						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	Preserved
660	CISC	193	65	0.90						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	Preserved
661	CISC	170	50.9	1.04						GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	Preserved
662	LKWH	316	394	1.25	F	IM				GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	
663	LKWH	321	399	1.21	F	IM				GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	
664	LKWH	399	763	1.20	F	IM				GN	5-Aug-08	ALGN-31	Aimaokatalok Lake			M	
665	LKTR	450	902	0.99					985121001905275	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake			C	
666	LKTR	600	2217	1.03			Green	4757	985121002003255	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake			C	
667	LKTR	427	802	1.03					985121002003876	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake			C	
668	LKTR	518	1293	0.93			Green	4758	985121002026458	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake			C	
675	LKTR	525	1367	0.94			Green	4759	985121001690823	GN	5-Aug-08	ALGN-33	Aimaokatalok Lake			C	
676	LKTR	743	3515	0.86			Green	4760	985121001688833	GN	5-Aug-08	ALGN-33	Aimaokatalok Lake			C	
682	NNST	59								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	
683	NNST	35								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	
684	SLSC	33								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	
685	NNST	56								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	
686	NNST	50								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
687	SLSC	69								BP	5-Aug-08	ALBP-04	Aimaokatalok Lake			C	
688	LSCS	63	1.7	0.68						SN	5-Aug-08	WVBS-01	Wolverine Lake			M	Preserved
689	LSCS	49	0.7	0.59						SN	5-Aug-08	WVBS-01	Wolverine Lake			M	Preserved
690	LSCS	36	0.6	1.29						SN	5-Aug-08	WVBS-01	Wolverine Lake			M	Preserved
691	LSCS	46	0.7	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
692	LSCS	49	0.7	0.59						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
693	LSCS	48	0.7	0.63						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
694	LSCS	61	1.6	0.70						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
695	LSCS	63	1.7	0.68						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
696	LSCS	48	0.8	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
697	LSCS	49	0.8	0.68						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
698	LSCS	52	0.9	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
699	LSCS	56	1.2	0.68						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
700	LSCS	48	0.8	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
701	LSCS	49	0.8	0.68						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
702	LSCS	58	1.5	0.77						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
703	LSCS	66	1.9	0.66						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
704	LSCS	51	0.9	0.68						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Preserved
705	LSCS	48	0.8	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
706	LSCS	48	0.7	0.63						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
707	LSCS	47	0.7	0.67						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
708	LSCS	48	0.7	0.63						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
709	LSCS	48	0.7	0.63						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
710	LSCS	47	0.8	0.77						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
711	LSCS	50	0.9	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
712	LSCS	50	0.8	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
713	LSCS	50	0.8	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
714	LSCS	49	0.7	0.59						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
715	LSCS	47	0.6	0.58						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
716	LSCS	50	0.8	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
717	LSCS	47	0.7	0.67						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
718	LSCS	47	0.6	0.58						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
719	LSCS	49	0.7	0.59						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
720	LSCS	50	0.8	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
721	LSCS	48	0.8	0.72						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
722	LSCS	49	0.7	0.59						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
723	LSCS	48	0.7	0.63						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
724	LSCS	52	0.9	0.64						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	Kept for Heidi
725	NNST	42	0.7	0.94						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	
726	NNST	43	0.6	0.75						SN	5-Aug-08	WVBS-02	Wolverine Lake			M	
1047	NNST	53								BP	6-Aug-08	WLBP-01	Windy Lake			C	
1048	NNST	26								BP	6-Aug-08	WLBP-01	Windy Lake			C	
1049	NNST	19								BP	6-Aug-08	WLBP-01	Windy Lake			C	
1050	NNST	29								BP	6-Aug-08	WLBP-01	Windy Lake			C	
1051	NNST	24								BP	6-Aug-08	WLBP-01	Windy Lake			C	
1052	LKTR	531	1019	0.68			Green	4761	985121001827341	GN	6-Aug-08	WLGN-01	Windy Lake			C	
1053	LKTR	870	10500	1.59			Green	4762	985121002026862	GN	6-Aug-08	WLGN-03	Windy Lake			C	
1054	LKTR	374	564	1.08					985121001926695	GN	6-Aug-08	WLGN-01	Windy Lake			C	
1055	LKTR	358	483	1.05					985121001919648	GN	6-Aug-08	WLGN-01	Windy Lake			C	
1056	CISC	310	279	0.94						GN	6-Aug-08	WLGN-01	Windy Lake			C	
1057	CISC	278	227	1.06						GN	6-Aug-08	WLGN-01	Windy Lake			C	
1058	CISC	330	388	1.08						GN	6-Aug-08	WLGN-01	Windy Lake			C	
1059	CISC	323	382	1.13						GN	6-Aug-08	WLGN-02	Windy Lake			C	
1060	CISC	339	449	1.15						GN	6-Aug-08	WLGN-02	Windy Lake			C	
1061	CISC	281	231	1.04						GN	6-Aug-08	WLGN-02	Windy Lake			C	
1062	CISC	327	403	1.15	F	M				GN	6-Aug-08	WLGN-02	Windy Lake			M	Cysts on stomach
1063	CISC	285	284	1.23	F	M				GN	6-Aug-08	WLGN-03	Windy Lake			M	
1064	CISC	252	173	1.08	M	IM				GN	6-Aug-08	WLGN-03	Windy Lake			M	
1065	CISC	302	305	1.11	M	M				GN	6-Aug-08	WLGN-03	Windy Lake			M	Cysts on stomach

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
1066	CISC	330	426	1.19						GN	6-Aug-08	WLGN-03	Windy Lake			M	
1067	CISC	320	350	1.07	M	M				GN	6-Aug-08	WLGN-03	Windy Lake			M	
1068	LKTR	384	574	1.01	F	IM				GN	6-Aug-08	WLGN-03	Windy Lake	Otoliths	11+	M	
1069	LKTR	140	28.9	1.05						BP	6-Aug-08	WLBP-02	Windy Lake			C	
1070	LKTR	80	4.7	0.92						BP	6-Aug-08	WLBP-02	Windy Lake			C	
1071	LKTR	68	3.2	1.02						BP	6-Aug-08	WLBP-02	Windy Lake			C	
1072	LKTR	70	3.3	0.96						BP	6-Aug-08	WLBP-02	Windy Lake			C	
1073	NNST	56	1.1	0.63						BP	6-Aug-08	WLBP-02	Windy Lake			C	
1074	CISC	309	314	1.06						GN	6-Aug-08	WLGN-04	Windy Lake			C	
1075	CISC	316	352	1.12						GN	6-Aug-08	WLGN-04	Windy Lake			C	
1076	CISC	320	318	0.97						GN	6-Aug-08	WLGN-05	Windy Lake			C	
1077	CISC	300	318	1.18						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1078	CISC	341	511	1.29						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1079	CISC	304	305	1.09						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1080	CISC	300	301	1.11						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1081	CISC	276	231	1.10						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1082	CISC	290	254	1.04						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1083	CISC	273	231	1.14						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1084	CISC	298	322	1.22						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1085	CISC	274	214	1.04						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1086	CISC	301	282	1.03						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1087	CISC	287	260	1.10						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1088	CISC	309	317	1.07						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1089	CISC	276	254	1.21						GN	7-Aug-08	WLGN-05	Windy Lake			C	
1090	LKTR	376	562	1.06	F	M				GN	7-Aug-08	WLGN-05	Windy Lake	Otoliths	13+	M	Stomach full of gammarus
1091	LKTR	383	564	1.00	M	IM				GN	7-Aug-08	WLGN-05	Windy Lake	Otoliths	14+	M	Gravel in stomach
1092	CISC	314	302	0.98						GN	7-Aug-08	WLGN-06	Windy Lake			C	
1093	CISC	305	390	1.37						GN	7-Aug-08	WLGN-06	Windy Lake			C	
1094	LKTR	783	6000	1.25			Green	4763	985121001870348	GN	7-Aug-08	WLGN-06	Windy Lake			C	
1095	LKTR	355	556	1.24					985121002040926	GN	7-Aug-08	WLGN-07	Windy Lake			C	
1096	CISC	276	242	1.15						GN	7-Aug-08	WLGN-07	Windy Lake			C	
1097	CISC	279	252	1.16						GN	7-Aug-08	WLGN-07	Windy Lake			C	
1098	CISC	276	230	1.09	M	IM				GN	7-Aug-08	WLGN-07	Windy Lake			M	
1099	CISC	225	119	1.04	F	IM				GN	7-Aug-08	WLGN-07	Windy Lake			M	
1100	CISC	272	242	1.20	M	M				GN	7-Aug-08	WLGN-07	Windy Lake			M	Cysts on stomach
1101	CISC	274	226	1.10	F	M				GN	7-Aug-08	WLGN-07	Windy Lake			M	stomach full of mysids
1102	CISC	312	383	1.26	F	M				GN	7-Aug-08	WLGN-07	Windy Lake			M	Fat
1103	CISC	312	298	0.98	M	M				GN	7-Aug-08	WLGN-07	Windy Lake			M	Skinny
1104	CISC	344	551	1.35	F	M				GN	7-Aug-08	WLGN-07	Windy Lake			M	Full of eggs
1105	CISC	330	336	0.93						GN	7-Aug-08	WLGN-08	Windy Lake			C	
1106	CISC	311	332	1.10						GN	7-Aug-08	WLGN-08	Windy Lake			C	
1107	CISC	318	339	1.05						GN	7-Aug-08	WLGN-08	Windy Lake			C	
1108	CISC	290	266	1.09						GN	7-Aug-08	WLGN-08	Windy Lake			C	
1109	CISC	306	367	1.28	M	IM				GN	7-Aug-08	WLGN-08	Windy Lake			M	Cysts on stomach
1110	CISC	244	176	1.21	F	M				GN	7-Aug-08	WLGN-08	Windy Lake			M	
1111	CISC	309	308	1.04						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1112	CISC	314	312	1.01						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1113	CISC	299	302	1.13						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1114	CISC	320	352	1.07						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1115	CISC	286	276	1.18						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1116	CISC	278	268	1.25						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1117	CISC	286	263	1.12						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1118	CISC	347	337	0.81						GN	7-Aug-08	WLGN-09	Windy Lake			C	
1119	CISC	309	312	1.06	F	M				GN	7-Aug-08	WLGN-09	Windy Lake			M	
1120	CISC	250	151	0.97						GN	7-Aug-08	WLGN-10	Windy Lake			C	
1121	CISC	291	235	0.95						GN	7-Aug-08	WLGN-10	Windy Lake			C	
1122	CISC	293	282	1.12						GN	7-Aug-08	WLGN-10	Windy Lake			C	
1123	CISC	281	285	1.28	M	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	
1124	CISC	300	277	1.03	M	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	
1125	CISC	273	242	1.19	M	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	Cysts on stomach

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
1126	CISC	306	264	0.92	M	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	Skinny
1127	CISC	309	328	1.11	F	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	
1128	CISC	297	324	1.24	M	M				GN	7-Aug-08	WLGN-10	Windy Lake			M	
1129	CISC	280	250	1.14	M	IM				GN	7-Aug-08	WLGN-10	Windy Lake			M	Cysts on organs
1130	CISC	302	336	1.22	M	IM				GN	7-Aug-08	WLGN-10	Windy Lake			M	
1131	CISC	320	342	1.04						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1132	CISC	298	297	1.12						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1133	CISC	325	346	1.01						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1134	CISC	270	244	1.24						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1135	CISC	299	311	1.16						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1136	CISC	320	299	0.91						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1137	CISC	277	267	1.26						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1138	CISC	333	388	1.05						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1139	CISC	174	48	0.91						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1140	CISC	314	355	1.15						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1141	CISC	298	310	1.17						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1142	CISC	282	252	1.12						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1143	CISC	283	335	1.48						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1144	CISC	241	159	1.14						GN	7-Aug-08	WLGN-11	Windy Lake			C	
1145	CISC	290	279	1.14	M					GN	7-Aug-08	WLGN-11	Windy Lake			M	
1146	CISC	275	213	1.02						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1147	CISC	258	189	1.10						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1148	CISC	300	339	1.26						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1149	CISC	295	317	1.23						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1150	CISC	302	313	1.14						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1151	CISC	295	308	1.20						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1152	CISC	298	317	1.20						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1153	CISC	286	261	1.12						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1154	CISC	283	260	1.15						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1155	CISC	295	305	1.19						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1156	CISC	278	262	1.22						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1157	CISC	315	335	1.07						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1158	CISC	336	363	0.96						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1159	CISC	303	325	1.17						GN	7-Aug-08	WLGN-12	Windy Lake			C	
1161	CISC	296	301	1.16	F	M				GN	7-Aug-08	WLGN-12	Windy Lake			M	
1162	CISC	308	325	1.11	F					GN	7-Aug-08	WLGN-12	Windy Lake			M	Ripe
1163	CISC	320	381	1.16	F					GN	7-Aug-08	WLGN-12	Windy Lake			M	Ripe
1164	CISC	274	268	1.30	M					GN	7-Aug-08	WLGN-12	Windy Lake			M	Dark discoloured gonads
1165	LKTR	1000	11500	1.15			Green		985121001904538	GN	7-Aug-08	WLGN-13	Windy Lake	Fin clip		C	
1166	LKTR	378	342	0.63					985121002004740	GN	7-Aug-08	WLGN-13	Windy Lake			C	
1167	CISC	285	296	1.28						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1168	CISC	281	249	1.12						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1169	CISC	270	214	1.09						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1170	CISC	293	318	1.26						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1171	CISC	266	203	1.08						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1172	CISC	265	215	1.16						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1173	CISC	314	339	1.09						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1174	CISC	194	79	1.08						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1175	CISC	268	230	1.19						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1176	CISC	255	193	1.16						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1177	CISC	211	93	0.99						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1178	CISC	242	145	1.02						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1179	CISC	296	294	1.13						GN	7-Aug-08	WLGN-13	Windy Lake			C	
1180	CISC	249	152	0.98	M	IM				GN	7-Aug-08	WLGN-13	Windy Lake			M	
1181	CISC	246	170	1.14	F	M				GN	7-Aug-08	WLGN-13	Windy Lake			M	
1182	CISC	316	374	1.19	F					GN	7-Aug-08	WLGN-13	Windy Lake			M	Stomach full of mysids; ripe
1183	CISC	264	223	1.21	F	M				GN	7-Aug-08	WLGN-13	Windy Lake			M	Cysts on stomach
1184	CISC	300	274	1.01	M	IM				GN	7-Aug-08	WLGN-13	Windy Lake			M	
1185	CISC	289	255	1.06	M	M				GN	7-Aug-08	WLGN-13	Windy Lake			M	
1186	LKTR	895	8750	1.22			Green	4765	985121001690974	GN	7-Aug-08	WLGN-14	Windy Lake			C	

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
1187	CISC	306	372	1.30						GN	7-Aug-08	WLGN-14	Windy Lake			C	
1188	CISC	296	347	1.34						GN	7-Aug-08	WLGN-14	Windy Lake			C	
1189	CISC	319	370	1.14						GN	7-Aug-08	WLGN-14	Windy Lake			C	
1191	LKTR	405	554	0.83					985121001830941	GN	7-Aug-08	WLGN-15	Windy Lake			C	
1192	LKTR	346	439	1.06					985121001904817	GN	7-Aug-08	WLGN-15	Windy Lake			C	
1193	CISC	288	247	1.03						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1194	CISC	315	318	1.02						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1195	CISC	259	166	0.96						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1196	CISC	298	311	1.18						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1197	CISC	265	228	1.23						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1198	CISC	301	290	1.06						GN	7-Aug-08	WLGN-15	Windy Lake			C	Eaten by isopods
1199	CISC	256	189	1.13						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1200	CISC	339	374	0.96						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1201	CISC	281	259	1.17						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1202	CISC	276	237	1.13						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1203	CISC	276	252	1.20						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1204	CISC	293	298	1.18						GN	7-Aug-08	WLGN-15	Windy Lake			C	
1205	LKTR	243	138	0.96					985121002041105	GN	7-Aug-08	WLGN-15	Windy Lake			C	
1206	CISC	278	254	1.18	F	M				GN	7-Aug-08	WLGN-15	Windy Lake			M	
1207	CISC	283	263	1.16	M	M				GN	7-Aug-08	WLGN-15	Windy Lake			M	
1208	CISC	295	323	1.26						GN	7-Aug-08	WLGN-15	Windy Lake			M	
1209	CISC	289	274	1.14	M	M				GN	7-Aug-08	WLGN-15	Windy Lake			M	
1210	CISC	295	297	1.16	F	M				GN	7-Aug-08	WLGN-15	Windy Lake			M	
1211	CISC	285	263	1.14	F					GN	7-Aug-08	WLGN-15	Windy Lake			M	Eaten by LKTR; ripe
1212	CISC	295	293	1.14	M	M				GN	7-Aug-08	WLGN-15	Windy Lake			M	Worms in stomach
1213	LKTR	603	905		F	M				GN	7-Aug-08	WLGN-15	Windy Lake	Otoliths	28+	M	Dark liver
1214	LKTR	880	8250	1.21			Green	4766	985121001871558	GN	7-Aug-08	WLGN-16	Windy Lake			C	
1215	CISC	290	277	1.14						GN	7-Aug-08	WLGN-16	Windy Lake			C	
1216	CISC	310	404	1.36						GN	7-Aug-08	WLGN-16	Windy Lake			C	Fat
1217	CISC	295	291	1.13						GN	7-Aug-08	WLGN-16	Windy Lake			C	
1218	CISC	297	294	1.12	M	M				GN	7-Aug-08	WLGN-16	Windy Lake			M	
1219	CISC	294	239	0.94						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1220	CISC	316	256	0.81						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1221	CISC	287	254	1.07						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1222	CISC	301	278	1.02						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1223	CISC	314	278	0.90						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1224	CISC	285	261	1.13						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1225	CISC	294	280	1.10						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1226	CISC	283	253	1.12						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1227	CISC	300	243	0.90						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1228	CISC	316	239	0.76						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1229	CISC	311	319	1.06						GN	8-Aug-08	WLGN-17	Windy Lake			C	
1230	CISC	317	311	0.98	F	M				GN	8-Aug-08	WLGN-17	Windy Lake			M	
1231	CISC	270	202	1.03						GN	8-Aug-08	WLGN-18	Windy Lake			C	
1232	CISC	294	302	1.19						GN	8-Aug-08	WLGN-18	Windy Lake			C	
1233	CISC	318	359	1.12						GN	8-Aug-08	WLGN-18	Windy Lake			C	
1234	CISC	290	257	1.05						GN	8-Aug-08	WLGN-18	Windy Lake			C	
1235	CISC	289	272	1.13						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1236	CISC	300	310	1.15						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1237	CISC	276	226	1.07						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1238	CISC	277	230	1.08						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1239	CISC	304	323	1.15						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1240	CISC	304	269	0.96						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1241	CISC	313	347	1.13						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1242	CISC	286	263	1.12						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1243	CISC	310	374	1.26						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1244	CISC	294	302	1.19						GN	8-Aug-08	WLGN-19	Windy Lake			C	
1245	LKTR	362	453	0.95					985121001925528	GN	8-Aug-08	WLGN-19	Windy Lake			C	
1246	CISC	315	356	1.14	F					GN	8-Aug-08	WLGN-19	Windy Lake			M	Ripe
1247	CISC	302	281	1.02	F					GN	8-Aug-08	WLGN-19	Windy Lake			M	Ripe

Appendix C1. Data for Individual Fish Captured, 2008

Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
1248	CISC	294	286	1.13						GN	8-Aug-08	WLGN-20	Windy Lake			C	
1249	CISC	332	260	0.71						GN	8-Aug-08	WLGN-20	Windy Lake			C	
1250	LKTR	322	362	1.08					985121001024237	GN	8-Aug-08	WLGN-20	Windy Lake			C	
1251	CISC	181	56	0.94	M	IM				GN	8-Aug-08	WLGN-20	Windy Lake			M	
1252	CISC	260	194	1.10	F	IM				GN	8-Aug-08	WLGN-20	Windy Lake			M	Cysts on stomach
1253	CISC	332								GN	8-Aug-08	WLGN-21	Windy Lake			C	
1254	CISC	170	43	0.88						GN	8-Aug-08	WLGN-21	Windy Lake			C	
1255	LKTR	631	3100	1.23			Green	4767	985121002023842	GN	8-Aug-08	WLGN-21	Windy Lake			C	
1256	CISC	260	192	1.09	M	IM				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1257	CISC	263	150	0.82	M	M				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1258	CISC	247	196	1.30	F	IM				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1259	CISC	243	154	1.07	F	IM				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1260	CISC	291	307	1.25	F	M				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1261	CISC	266	185	0.98	F	M				GN	8-Aug-08	WLGN-21	Windy Lake			M	
1262	LKTR	351	453	1.05	M	IM				GN	8-Aug-08	WLGN-21	Windy Lake	Otoliths	12+	M	Stomach full of inverts
1263	CISC	270	196	1.00						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1264	CISC	280	277	1.26						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1265	CISC	308	341	1.17						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1266	CISC	292	328	1.32						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1267	CISC	244	163	1.12						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1268	CISC	265	295	1.59						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1269	CISC	310	322	1.08						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1270	CISC	292	261	1.05						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1271	CISC	287	262	1.11						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1272	CISC	278	228	1.06						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1273	CISC	306	278	0.97						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1274	CISC	283	250	1.10						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1275	CISC	277	225	1.06						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1276	CISC	287	276	1.17						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1277	CISC	315	341	1.09						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1278	CISC	235	134	1.03						GN	8-Aug-08	WLGN-22	Windy Lake			C	
1279	LKTR	845	8500	1.41			Green	4768	985121001894105	GN	8-Aug-08	WLGN-22	Windy Lake			C	
1280	CISC	291	303	1.23	M	M				GN	8-Aug-08	WLGN-22	Windy Lake			M	
1281	CISC	278	230	1.07	M	M				GN	8-Aug-08	WLGN-22	Windy Lake			M	
1282	CISC	296	289	1.11	F	M				GN	8-Aug-08	WLGN-22	Windy Lake			M	
1283	CISC	300	304	1.13	F					GN	8-Aug-08	WLGN-22	Windy Lake			M	Ripe
1284	CISC	299	321	1.20	F	M				GN	8-Aug-08	WLGN-22	Windy Lake			M	Cysts on stomach
1285	CISC	283	219	0.97	F	IM				GN	8-Aug-08	WLGN-22	Windy Lake			M	Cysts on stomach
1286	CISC	300	331	1.23	F	M				GN	8-Aug-08	WLGN-22	Windy Lake			M	Pale eggs
1287	CISC	280	214	0.97	F	IM				GN	8-Aug-08	WLGN-22	Windy Lake			M	
1288	LKTR	430	820	1.03	F	M				GN	8-Aug-08	WLGN-22	Windy Lake	Otoliths	16+	M	Stomach full of inverts
1289	LKTR	870	10500	1.59			Green	4762	985121002026862	GN	8-Aug-08	WLGN-22	Windy Lake			R	Recapture from August 7
1290	CISC	305	303	1.07						GN	8-Aug-08	WLGN-23	Windy Lake			C	
1291	CISC	281	259	1.17						GN	8-Aug-08	WLGN-23	Windy Lake			C	
1292	CISC	263	200	1.10						GN	8-Aug-08	WLGN-23	Windy Lake			C	
1293	CISC	301	267	0.98						GN	8-Aug-08	WLGN-23	Windy Lake			C	
1294	CISC	245	165	1.12						GN	8-Aug-08	WLGN-23	Windy Lake			C	
1295	LKTR	284	221	0.96					985121001687040	GN	8-Aug-08	WLGN-23	Windy Lake			C	
1296	CISC	284	255	1.11	M	M				GN	8-Aug-08	WLGN-23	Windy Lake			M	
1297	CISC	244	169	1.16	M	M				GN	8-Aug-08	WLGN-23	Windy Lake			M	
1298	CISC	279	253	1.16	M	M				GN	8-Aug-08	WLGN-23	Windy Lake			M	Cysts on stomach
1299	LKTR	892	8400	1.18			Green	4769	985121001689365	GN	8-Aug-08	WLGN-24	Windy Lake			C	
1300	CISC	308	315	1.08						GN	8-Aug-08	WLGN-24	Windy Lake			C	
1301	CISC	298	321	1.21						GN	8-Aug-08	WLGN-24	Windy Lake			C	
1302	CISC	281	258	1.16						GN	8-Aug-08	WLGN-24	Windy Lake			C	
1303	CISC	297	302	1.15	F	M				GN	8-Aug-08	WLGN-24	Windy Lake			M	
1304	CISC	303	330	1.19	M	M				GN	8-Aug-08	WLGN-24	Windy Lake			M	
1305	LKTR	388	628	1.08					985121001907224	GN	8-Aug-08	WLGN-25	Windy Lake			C	
1306	CISC	336	442	1.17						GN	8-Aug-08	WLGN-25	Windy Lake			C	
1307	CISC	338	436	1.13						GN	8-Aug-08	WLGN-25	Windy Lake			C	

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Sample	Species	Length* (mm)	Weight (g)	Condition Factor	Sex	Maturity	Floy Tag Colour	Floy Tag Number	Pit Tag Number	Capture Method	Date	Site	Location	Ageing Structures	Age	Capture Code	Comments
1308	CISC	308	358	1.23						GN	8-Aug-08	WLGN-25	Windy Lake			C	
1309	CISC	305	318	1.12						GN	8-Aug-08	WLGN-25	Windy Lake			C	
1310	CISC	301	303	1.11						GN	8-Aug-08	WLGN-25	Windy Lake			C	
1311	CISC	300	297	1.10						GN	8-Aug-08	WLGN-25	Windy Lake			C	
1312	CISC	326	388	1.12	F	M				GN	8-Aug-08	WLGN-25	Windy Lake			M	

Method:
- AN Angling
- BP Backpack Electrofishing
- DN Dip Net
- GN Gill Net
- SN Beach Seine

Maturity:
- M Mature
- IM Immature

Sex: F = Female, M = Male

Capture Codes: C = first capture, M = mortality, R = re-capture

Species:
- ARCH Arctic char
- ARGR Arctic grayling
- BURB Burbot
- CISC Cisco
- LKTR Lake trout
- LKWH Lake whitefish
- LSCS Least cisco
- NNST Ninespine stickleback
- SLSC Slimy sculpin
- Coregonid spp YOY unconfirmed LKWH or CISC

Condition Factor = Weight [in g]/FL [in mm] **Length*** = Total Length for NNST
Length* = Fork Length for ARCH, ARGR, BURB, CISC, LKTR, LKWH, LSCS, SLSC

APPENDIX C2

SUMMARY STATISTICS FOR FISH CAPTURE DATA

Appendix C2. Length, weight, and condition factor summary statistics for captured fish, 2008

Waterbody	Species	Length (mm)					Total Body Weight (g)					Condition Factor				
		n	Mean	SD	Min	Max	*n*	Mean	SD	Min	Max	*n*	Mean	SD	Min	Max
Aimaokatalok Lake	Cisco	11	198	23	169	234	11	81	30	51	139	11	1.02	0.12	0.82	1.22
	Coregonid spp.	67	30	4	22	41	-	-	-	-	-	-	-	-	-	-
	Lake trout	40	601	181	188	900	40	2659	1975	62	6706	40	0.99	0.15	0.61	1.31
	Lake whitefish	50	412	62	191	501	49	958	379	79	1860	49	1.27	0.15	0.88	1.90
	Least Cisco	17	192	15	178	240	17	74	24	51	141	17	1.02	0.13	0.79	1.31
	Ninespine stickleback	79	39	10	20	59	-	-	-	-	-	-	-	-	-	-
	Slimy sculpin	2	51	-	33	69	-	-	-	-	-	-	-	-	-	-
Koignuk River	Arctic grayling Juvenile	6	56	5	50	64	-	-	-	-	-	-	-	-	-	-
	Burbot	1	468	-	-	-	1	750	-	-	-	1	0.73	-	-	-
	Ninespine stickleback	45	43	13	21	73	-	-	-	-	-	-	-	-	-	-
	Slimy sculpin	19	50	11	26	69	-	-	-	-	-	-	-	-	-	-
Patch Lake	Cisco	70	241	37	166	326	64	136	67	43	348	64	0.97	0.28	0.40	1.69
	Lake trout	27	702	138	263	935	27	3861	2189	186	11000	27	0.99	0.16	0.66	1.35
	Lake whitefish	51	372	49	241	465	47	668	286	92	1435	47	1.22	0.17	0.66	1.60
	Least Cisco	5	225	17	200	246	5	84	30	58	119	5	0.77	0.41	0.45	1.49
Windy Lake	Cisco	227	291	27	170	347	226	279	73	43	551	226	1.11	0.11	0.71	1.59
	Lake trout	31	481	272	68	1000	30	2809	3958	3	11500	30	1.08	0.21	0.63	1.59
	Ninespine stickleback	6	35	16	19	56	-	-	-	-	-	-	-	-	-	-
Wolverine Lake	Least Cisco	37	51	6	36	66	37	0.9	0.3	0.6	1.9	37	0.68	0.12	0.58	1.29
	Ninespine stickleback	2	-	-	42	43	2	-	-	0.6	0.7	2	-	-	0.75	0.94

APPENDIX C3

OBSERVED FISH DATA

Appendix C3. Observed fish data, 2008

Sample	Number of Fish	Species	Capture Method	Date	Site	Location	Capture Code	Capture Comment
1	1	NNST	BP	14-Jul-08	KRBP-01	Koignuk River	O	
4-7	4	SLSC	BP	15-Jul-08	KRBP-04	Koignuk River	O	
29	1	ARGR	AN	16-Jul-08	KRAN-08	Koignuk River	O	
58	1	NNST	BP	16-Jul-08	KRBP-09	Koignuk River	O	
79-81	3	NNST	BP	16-Jul-08	KRBP-10	Koignuk River	O	
153	1	CISC	GN	22-Jul-08	PLGN-10	Patch Lake	O	
157	1	LKTR	GN	22-Jul-08	PLGN-11	Patch Lake	O	
164	1	LKTR	GN	22-Jul-08	PLGN-12	Patch Lake	O	
165-167	3	CISC	GN	22-Jul-08	PLGN-12	Patch Lake	O	
194	1	LKWH	GN	23-Jul-08	PLGN-17	Patch Lake	O	
377-383	7	Coregonid spp	SN	2-Aug-08	ALBS-02	Aimaokatalok Lake	C	Released - no data
384-492	109	Coregonid spp	SN	2-Aug-08	ALBS-02	Aimaokatalok Lake	M	Released - no data
521-571	51	NNST	BP	2-Aug-08	ALBP-03	Aimaokatalok Lake	O	
615	1	LKWH	GN	3-Aug-08	ALGN-15	Aimaokatalok Lake	O	
620	1	LKWH	GN	3-Aug-08	ALGN-16	Aimaokatalok Lake	O	
669-670	2	LKWH	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake	C	Released - no data
671-673	3	LSCS	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake	C	Released - no data
674	1	CISC	GN	5-Aug-08	ALGN-32	Aimaokatalok Lake	C	Released - no data
677-679	3	LKWH	GN	5-Aug-08	ALGN-33	Aimaokatalok Lake	C	Released - no data
680	1	CISC	GN	5-Aug-08	ALGN-33	Aimaokatalok Lake	C	Released - no data
681	1	LKWH	GN	5-Aug-08	ALGN-33	Aimaokatalok Lake	C	Released - no data
727-750	24	NNST	SN	5-Aug-08	WVBS-02	Wolverine Lake	C	Released - no data
751-1037	287	LSCS	SN	5-Aug-08	WVBS-02	Wolverine Lake	C	Released - no data
1038-1046	9	NNST	SN	5-Aug-08	WVBS-01	Wolverine Lake	C	Released - no data
1160	1	CISC	GN	7-Aug-08	WLGN-12	Windy Lake	O	
1190	1	CISC	GN	7-Aug-08	WLGN-14	Windy Lake	O	

Method:
- AN Angling
- BP Backpack electrofishing
- GN Gill netting
- SN Beach Seining

Capture Code:
- C Captured
- M Mortality
- O Observed

Species:
- ARGR Arctic grayling
- CISC Cisco
- LKWH Lake whitefish
- LSCS Least cisco
- NNST Ninespine stickleback
- SLSC Slimy sculpin
- Coregonid spp YOY unconfirmed LKWH or CISC

APPENDIX C4 to C9

FISHING METHOD SPECIFIC LOCATIONS, EFFORT AND CPUE

Appendix C4. Angling locations, effort, catch, and CPUE, 2008

Waterbody	Site ID	Coordinate (UTM 13W NAD83)		Date	Effort			Fish Capture,CPUE ARGR	
		Easting	Northing		No. of rods	(h)	Total Effort (h)	n	CPUE
Koignuk River	KRAN-01	430287	7550050	14-Jul-08	2	0.83	1.67		
	KRAN-02	430058	7550956	14-Jul-08	2	0.33	0.67		
	KRAN-03	429594	7553020	14-Jul-08	2	0.33	0.67		
	KRAN-04	429791	7553955	15-Jul-08	2	0.33	0.67		
	KRAN-05	429634	7554648	15-Jul-08	2	0.33	0.67		
	KRAN-06	429620	7554919	15-Jul-08	2	0.33	0.67		
	KRAN-07	431527	7545534	16-Jul-08	2	0.50	1.00		
	KRAN-08	431420	7545692	16-Jul-08	2	0.50	1.00	1	1.00
	KRAN-09	431522	7545698	16-Jul-08	2	0.33	0.67		
	KRAN-10	431100	7547298	16-Jul-08	2	0.25	0.50		
	KRAN-11	430426	7549299	16-Jul-08	2	0.25	0.50		
	Total				**2**	**4.33**	**8.67**	**1**	**0.12**

n=number of fish captured

CPUE=catch per unit effort

CPUE=number of fish / hour

Appendix C5. Backpack electrofishing locations, effort, catch, and CPUE, 2008

Waterbody	Site ID	Date	Start Coordinate (UTM 13W NAD83)		End Coordinate (UTM 13W NAD83)		Effort		Fish Capture, CPUE											
									Arctic Grayling		Burbot		Lake Trout		Ninespine Stickleback		Slimy Sculpin		Total	
			Easting	Northing	Easting	Northing	(m)	(s)	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Aimaokatalok Lake	ALBP-01	02-Aug-08	441088	7500015	441126	7499749	267	627							17	2.71			17	2.71
	ALBP-02	02-Aug-08	441187	7499667			50	608							3	0.49			3	0.49
	ALBP-03	02-Aug-08	440280	7502894	440436	7503042	210	1184							28	2.36			28	2.36
	ALBP-04	05-Aug-08	440991	7505591			100	1580							4	0.25	2	0.25	6	0.38
	Total						**627**	**3999**							**52**	**1.30**	**2**	**0.05**	**54**	**1.35**
Koignuk River	KRBP-01	14-Jul-08	429852	7551181	429919	7551064	146	536											0	0.00
	KRBP-02	15-Jul-08	429793	7553952	429831	7553810	151	672									2	0.30	2	0.30
	KRBP-03	15-Jul-08	429760	7554005	429790	7553954	60	285											0	0.00
	KRBP-04	15-Jul-08	429634	7554648	429616	7554452	345	2428							2	0.08	8	0.66	10	0.82
	KRBP-05	15-Jul-08	429524	7555063	429474	7555086	383	796							11	1.38			11	1.38
	KRBP-06	16-Jul-08	431474	7545674	431418	7545692	350	2556	1	0.12					8	0.31	4	0.47	13	1.53
	KRBP-07	16-Jul-08	431180	7546825			150	484			1	0.41			11	2.27			12	4.96
	KRBP-08	16-Jul-08	430423	7549310	430428	7549299	111	429									3	0.70	3	0.70
	KRBP-09	16-Jul-08	430258	7550128	430289	7550039	96	334							3	0.90			3	0.90
	KRBP-10	16-Jul-08	430129	7550693			400	2946	5	0.51					10	0.34	2	0.20	17	1.73
	Total						**1792**	**11466**	**6**	**0.05**	**1**	**0.01**			**45**	**0.39**	**19**	**0.17**	**71**	**0.62**
Windy Lake	WLBP-01	06-Aug-08	431520	7555239	431480	7555323	140	849							5	0.59			5	0.59
	WLBP-02	06-Aug-08	431323	7554638	431360	7554707	80	1540					4	0.52	1	0.06			5	0.65
	Total						**220**	**2389**					**4**	**0.52**	**6**	**0.25**			**10**	**1.24**

n=number of fish captured

CPUE=catch per unit effort

CPUE=number of fish / 100s

Appendix C6. Beach seining locations, effort, capture, and CPUE, 2008

Waterbody	Site ID	Date	Start Coordinate (UTM 13W NAD83)		Effort	Fish Capture, CPUE							
						Coregonid spp.		Least cisco		Ninespine stickleback		Total	
			Easting	Northing	Area (m^2)	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Aimaokatalok Lake	ALBS-01	02-Aug-08	440758	7500517	980	3	0.31			5	0.51	8	0.82
	ALBS-02	02-Aug-08	440758	7500517	980	180	18.37			8	0.82	188	19.18
	Total				**1960**	**183**	**9.34**			**13**	**0.66**	**196**	**10.00**
Koignuk River	KRBS-01	14-Jul-08	429995	7551055	510							0	0.00
	KRBS-02	14-Jul-08	430044	7550968	210							0	0.00
	KRBS-03	14-Jul-08	430075	7550902	215							0	0.00
	Total				**935**							**0**	**0.00**
Windy Lake	WLBS-01	08-Aug-08	432272	7553153	560							0	0.00
	WLBS-02	08-Aug-08	432305	7553239	511							0	0.00
	Total				**560**							**0**	**0.00**
Wolverine Lake	WVBS-01	05-Aug-08	434628	7546750	665			3	0.45	9	1.35	12	1.80
	WVBS-02	05-Aug-08	434605	7546644	560			321	57.32	26	4.64	347	61.96
	Total				**1225**			**324**	**26.45**	**35**	**2.86**	**359**	**29.31**

n=number of fish captured

CPUE=catch per unit effort

CPUE=number of fish / 24h

Appendix C7. Dipnetting locations and catch, 2008

Waterbody	Site ID	Coordinate (UTM 13W NAD83)		Date	Fish Capture	
					LKTR	NNST
		Easting	Northing		n	n
Aimaokatalok Lake	ALDN-01	439998	7503518	01-Aug-08		14
	ALDN-02			03-Aug-08	1	
	Total				**1**	**14**

n=number of fish captured

Appendix C8. Gill netting locations, effort, capture, and CPUE, 2008

Waterbody	Site ID	Set No.	Coordinate (UTM 13W NAD83)		Set Date	Set Time	Pull Date	Pull Time	Maximum Water Depth (m)	Minimum Water Depth (m)	Set Period (h)	Net Area (m^2)	No. Panels	Net Units	Mesh Sizes (cm)	Fish Capture / CPUE									
																Cisco		Lake trout		Lake whitefish		Least cisco		Total	
			Easting	Northing												n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Aimaokatalok Lake	ALGN-01	1	440123	7503652	8/1/2008	09:52	8/1/2008	10:55	3.0	3.0	1.1	27.9	3	0.04	6.35, 5.08, 6.35									0	0.00
	ALGN-02	1	440209	7503671	8/1/2008	10:03	8/1/2008	11:02	7.0	3.3	1.0	27.9	3	0.03	3.81, 3.81, 5.08			1	29.19	1	29.19			2	58.38
	ALGN-03	1	440361	7503759	8/1/2008	10:18	8/1/2008	11:10	7.9	6.0	0.9	27.9	3	0.03	3.81, 6.35, 3.81	1	33.12							1	33.12
	ALGN-04	1	440343	7503231	8/1/2008	11:54	8/1/2008	12:58	2.0	1.6	1.1	27.9	3	0.04	3.81, 5.08, 3.81									0	0.00
	ALGN-05	1	440391	7503343	8/1/2008	12:02	8/1/2008	13:14	3.3	2.4	1.2	27.9	3	0.04	3.81, 5.08, 3.81									0	0.00
	ALGN-06	1	440468	7503499	8/1/2008	12:10	8/1/2008	13:19	4.0	2.4	1.2	27.9	3	0.04	3.81, 3.81, 5.08		0.00	1	24.96					1	24.96
	ALGN-07	1	440390	7503591	8/1/2008	13:05	8/1/2008	14:45	4.3	3.5	1.7	27.9	3	0.06	3.81, 6.35, 3.81	4	68.89	3	51.67	1	17.22	3	51.67	11	189.44
	ALGN-08	1	440152	7503591	8/1/2008	13:25	8/1/2008	15:15	3.5	3.0	1.8	27.9	3	0.06	3.81, 3.81, 5.08									0	0.00
	ALGN-09	1	440155	7504064	8/1/2008	13:35	8/1/2008	15:18	9.1	4.5	1.7	27.9	3	0.06	3.81, 6.35, 3.81									0	0.00
	ALGN-10	1	440970	7499998	8/2/2008	09:25	8/2/2008	10:39	2.2	2.2	1.2	27.9	3	0.04	3.81, 6.35, 3.81					1	23.27			1	23.27
	ALGN-10	2	440970	7499998	8/2/2008	10:39	8/2/2008	12:30	2.2	2.2	1.9	27.9	3	0.07	3.81, 6.35, 3.81									0	0.00
	ALGN-11	1	440839	7500159	8/2/2008	09:32	8/2/2008	10:50	2.4	1.9	13.3	27.9	3	0.46	3.81, 3.81, 5.08			1	2.16	2	4.32			3	6.47
	ALGN-11	2	440839	7500159	8/2/2008	10:50	8/2/2008	12:45	2.4	1.9	1.9	27.9	3	0.07	3.81, 3.81, 5.08			1	15.11	1	15.11			2	30.21
	ALGN-12	1	440342	7504895	8/3/2008	08:09	8/3/2008	9:16	11.0	9.1	1.1	27.9	3	0.04	3.81, 3.81, 5.08							3	77.11	3	77.11
	ALGN-13	1	440196	7504490	8/3/2008	08:17	8/3/2008	9:30	9.2	5.7	1.2	27.9	3	0.04	3.81, 6.35, 3.81			2	47.18	7	165.14			9	212.33
	ALGN-14	1	440165	7504134	8/3/2008	08:50	8/3/2008	10:45	6.8	4.0	1.9	27.9	3	0.07	6.35, 5.08, 6.35			1	14.98	5	74.88			6	89.86
	ALGN-15	1	440237	7505168	8/3/2008	09:20	8/3/2008	11:25	15.0	7.1	2.1	27.9	3	0.07	3.81, 3.81, 5.08	3	41.33	4	55.11	10	137.78	7	96.44	24	330.67
	ALGN-16	1	440230	7504540	8/3/2008	09:35	8/3/2008	12:45	9.5	4.5	3.2	27.9	3	0.11	3.81, 6.35, 3.81			4	36.26	4	36.26			8	72.51
	ALGN-17	1	440476	7504062	8/3/2008	11:07	8/3/2008	13:35	3.2	2.0	2.5	27.9	3	0.09	6.35, 5.08, 6.35									0	0.00
	ALGN-17	2	440476	7504062	8/3/2008	13:35	8/3/2008	14:35	3.2	2.0	1.0	27.9	3	0.03	6.35, 5.08, 6.35									0	0.00
	ALGN-18	1	440457	7504085	8/3/2008	13:25	8/3/2008	14:25			1.0	27.9	3	0.03	3.81, 5.08, 3.81			1	28.70					1	28.70
	ALGN-19	1	440446	7504085	8/3/2008	13:40	8/3/2008	14:40	3.5	3.5	1.0	27.9	3	0.03	6.35, 5.08, 6.35									0	0.00
	ALGN-20	1	440457	7504085	8/3/2008	14:30	8/3/2008	15:13	3.5	3.0	0.7	27.9	3	0.02	3.81, 5.08, 3.81			1	40.05					1	40.05
	ALGN-21	1	440446	7504085	8/3/2008	14:42	8/3/2008	15:20	3.6	3.5	0.6	27.9	3	0.02	3.81, 3.81, 5.08									0	0.00
	ALGN-22	1	440182	7505347	8/4/2008	10:05	8/4/2008	11:05	6.6	2.2	1.0	27.9	3	0.03	3.81, 3.81, 5.08			1	28.70	1	28.70			2	57.41
	ALGN-23	1	440199	7505375	8/4/2008	10:10	8/4/2008	11:10	7.3	6.6	1.0	27.9	3	0.03	6.35, 5.08, 6.35			2	57.41	1	28.70			3	86.11
	ALGN-24	1	440131	7505661	8/4/2008	10:15	8/4/2008	12:10	6.6	2.7	1.9	27.9	3	0.07	3.81, 6.35, 3.81			7	104.83	3	44.93			10	149.76
	ALGN-24	2	440131	7505661	8/4/2008	12:10	8/4/2008	13:18	6.6	2.7	1.1	27.9	3	0.04	3.81, 6.35, 3.81			1	26.09					1	26.09
	ALGN-25	1	440047	7505472	8/4/2008	11:28	8/4/2008	13:05	4.2	3.2	1.6	27.9	3	0.06	3.81, 3.81, 5.08									0	0.00
	ALGN-26	1	440075	7505436	8/4/2008	11:32	8/4/2008	13:06	4.3	4.2	1.6	27.9	3	0.05	6.35, 5.08, 6.35									0	0.00
	ALGN-27	1	440938	7506058	8/4/2008	13:45	8/4/2008	14:45	3.0	1.9	1.0	27.9	3	0.03	6.35, 5.08, 6.35									0	0.00
	ALGN-28	1	441423	7506063	8/4/2008	14:08	8/4/2008	14:53	3.5	1.6	0.8	27.9	3	0.03	3.81, 6.35, 3.81									0	0.00
	ALGN-28	2	441423	7506063	8/4/2008	14:53	8/4/2008	15:45	3.5	1.6	0.9	27.9	3	0.03	3.81, 6.35, 3.81					1	31.89			1	31.89
	ALGN-28	3	441423	7506063	8/4/2008	15:45	8/4/2008	16:20	3.5	1.6	0.6	27.9	3	0.02	3.81, 6.35, 3.81					1	47.84			1	47.84
	ALGN-29	1	441164	7506267	8/4/2008	14:15	8/4/2008	15:00	4.0	3.8	0.8	27.9	3	0.03	3.81, 5.08, 3.81					2	76.54			2	76.54
	ALGN-29	2	441164	7506267	8/4/2008	15:00	8/4/2008	15:54	4.0	3.8	0.9	27.9	3	0.03	3.81, 5.08, 3.81									0	0.00
	ALGN-30	1	440815	7506188	8/4/2008	14:50	8/4/2008	15:40	4.3	3.2	0.8	27.9	3	0.03	6.35, 5.08, 6.35									0	0.00
	ALGN-30	2	440815	7506188	8/4/2008	15:40	8/4/2008	16:10	4.3	3.2	0.5	27.9	3	0.02	6.35, 5.08, 6.35									0	0.00
	ALGN-31	1	440294	7505170	8/5/2008	09:30	8/5/2008	10:50	16.5	6.5	1.3	27.9	3	0.05	3.81, 5.08, 3.81	3	64.58	2	43.06	9	193.75	4	86.11	18	387.50
	ALGN-32	1	440011	7507231	8/5/2008	10:00	8/5/2008	11:25	15.5	7.4	1.4	27.9	3	0.05	6.35, 5.08, 6.35	1	20.26	4	81.05	2	40.52	3	60.78	10	202.61
	ALGN-33	1	439960	7506866	8/5/2008	10:10	8/5/2008	11:35	7.6	3.7	1.4	27.9	3	0.05	3.81, 3.81, 5.08	1	20.26	2	40.52	3	60.78			6	121.57
	Total										**64.8**			**2.26**		**13**	**5.76**	**39**	**17.28**	**55**	**24.37**	**20**	**8.86**	**127**	**56.27**
Patch Lake	PLGN-01	1	435539	7546452	7/19/2008	12:30	7/19/2008	14:35	<5		2.1	27.9	3	0.07	3.81, 5.08, 6.35			1	13.78	2	27.56			3	41.33
	PLGN-02	1	435476	7546682	7/19/2008	12:45	7/19/2008	14:07	<5		1.4	27.9	3	0.05	3.81, 3.81, 5.08					2	42.01			2	42.01
	PLGN-03	1	435620	7546752	7/19/2008	02:00	7/19/2008	15:00	<5		1.0	27.9	3	0.03	3.81, 6.35, 3.81					3	86.11			3	86.11
	PLGN-04	1	435429	7546845	7/19/2008	02:33	7/19/2008	15:58			1.4	27.9	3	0.05	3.81, 5.08, 6.35	1	20.26			4	81.05			5	101.31
	PLGN-05	1	435940	7547109	7/20/2008	12:14	7/20/2008	13:20	20.4		1.1	27.9	3	0.04	3.81, 5.08, 3.81	6	156.57			2	52.19	1	26.09	9	234.85
	PLGN-06	1	435453	7547164	7/20/2008	12:19	7/20/2008	14:10	20.6	19.9	1.9	27.9	3	0.06	3.81, 5.08, 6.35	20	310.31	2	31.03	7	108.61			29	449.95
	PLGN-07	1	435970	7547164	7/20/2008	12:22	7/20/2008	15:10	24.8	22.6	2.8	27.9	3	0.10	3.81, 3.81, 5.08	13	133.27	2	20.50	1	10.25			16	164.02
	PLGN-08	1	431525	7553996	7/20/2008	10:40	7/20/2008	12:00	2.8	1.7	1.3	27.9	3	0.05	3.81, 6.35, 3.81									0	0.00
	PLGN-09	1	435194	7548795	7/22/2008	10:55	7/22/2008	12:10	2.2	1.7	1.3	27.9	3	0.04	6.35, 5.08, 6.35									0	0.00
	PLGN-10	1	435565	7548066	7/22/2008	12:30	7/22/2008	14:10	6.5	2.5	1.7	27.9	3	0.06	6.35, 5.08, 6.35	1	17.22	1	17.22	2	34.44			4	68.89
	PLGN-11	1	435617	7548012	7/22/2008	12:40	7/22/2008	13:55	10.5	9.1	1.3	27.9	3	0.04	6.35, 5.08, 6.35	2	45.93			1	22.96			3	68.89
	PLGN-12	1	434992	7548766	7/22/2008	12:25	7/22/2008	13:40	3.9	3.0	1.3	27.9	3	0.04	3.81, 3.81, 3.81	1	22.96							1	22.96
	PLGN-12	2	434992	7548766	7/22/2008	13:40	7/22/2008	15:00	3.9	3.0	1.3	27.9	3	0.05	3.81, 3.81, 3.81	1	22.08	3	66.24	1	22.08			5	110.40
	PLGN-13	1	435255	7548979	7/23/2008	09:34	7/23/2008	10:50	8.1	2.1	1.3	27.9	3	0.04	6.35, 5.08, 6.35	2	45.32	1	22.66	2	45.32			5	113.30
	PLGN-14	1	435630	7549170	7/23/2008	09:50	7/23/2008	11:30	4.2	4.1	1.7	27.9	3	0.06	3.81, 3.81, 3.81	4	68.89	4	68.89	1	17.22	4	68.89	13	223.89
	PLGN-15	1	435445	7548760	7/23/2008	10:00	7/23/2008	12:20	4.9	4.1	2.3	27.9	3	0.08	3.81, 5.08, 3.81	1	12.30	2	24.60	1	12.30			4	49.21
	PLGN-16	1	435343	7548855	7/23/2008	14:30	7/23/2008	14:50	3.1	3.7	0.3	27.9	3	0.01	3.81, 3.81, 3.81			2	172.22					2	172.22
	PLGN-17	1	435448	7548714	7/23/2008	14:40	7/23/2008	15:40	3.7	3.2	1.0	27.9	3	0.03	3.81, 5.08, 3.81					2	57.41			2	57.41
	PLGN-18	1	434555	7549016	7/25/2008	10:05	7/25/2008	11:00	3.5	3.3	0.9	27.9	3	0.03	3.81, 3.81, 5.08			1	31.31					1	31.31
	PLGN-19	1	434531	7549054	7/25/2008	10:12	7/25/2008	11:05	4.8	1.9	0.9	27.9	3	0.03	3.81, 6.35, 3.81					1	32.49			1	32.49
	PLGN-20	1	434814	7548880	7/25/2008	10:20	7/25/2008	11:15	3.0	2.5	0.9	27.9	3	0.03	6.35, 5.08, 6.35	2	62.63	1	31.31	2	62.63			5	156.57
	PLGN-21	1	435263	7548570	7/25/2008	12:00	7/25/2008	13:10	3.5	3.3	1.2	27.9	3	0.04	3.81, 5.08, 3.81	1	24.60	2	49.21	5	123.02			8	196.83
	PLGN-22	1	435197	7548564	7/25/2008	12:05	7/25/2008	13:40	3.6	2.8	1.6	27.9	3	0.06	3.81, 3.81, 5.08	2	36.26			1	18.13			3	54.39
	PLGN-23	1	435139	7548556	7/25/2008	12:10	7/25/2008	13:50	3.4	3.1	1.7	27.9	3	0.06	3.81, 6.35, 3.81	9	155.00	1	17.22	2	34.44			12	206.67
	PLGN-24	1	435642	7549263	7/25/2008	14:25	7/25/2008	15:25	4.8	4.3	1.0	27.9	3	0.03	3.81, 3.81, 5.08	1	28.70							1	28.70
	PLGN-25	1	435612	7549246	7/25/2008	14:30	7/25/2008	15:30	4.8	4.6	1.0	27.9	3	0.03	3.81, 6.35, 3.81			1	28.70	1	28.70			2	57.41
	PLGN-26	1	435196	7550170	7/26/2008	09:45	7/26/2008	10:35	5.8	2.1	0.8	27.9	3	0.03	3.81, 6.35, 3.81					3	103.33			3	103.33
	PLGN-27	1	435158	7550136	7/26/2008	09:50	7/26/2008	10:45	5.8	4.0	0.9	27.9	3	0.03	3.81, 3.81, 5.08	1	31.31			1	31.31			2	62.63
	PLGN-28	1	435153	7549404	7/26/2008	10:00	7/26/2008	11:10	4.1	3.5	1.2	27.9	3	0.04	6.35, 5.08, 6.35	1	24.60	3	73.81	1	24.60			5	123.02
	PLGN-29	1	435025	7549485	7/26/2008	11:20	7/26/2008	12:35	3.0	2.7	1.3	27.9	3	0.04	6.35, 5.08, 6.35					3	68.89			3	68.89
	Total										**39.6**			**1.38**		**69**	**50.06**	**27**	**19.59**	**51**	**37.00**	**5**	**3.63**	**152**	**110.27**

Appendix C8. Gill netting locations, effort, capture, and CPUE, 2008

Waterbody	Site ID	Set No.	Coordinate (UTM 13W NAD83)		Set Date	Set Time	Pull Date	Pull Time	Maximum Water Depth (m)	Minimum Water Depth (m)	Set Period (h)	Net Area (m^2)	No. Panels	Net Units	Mesh Sizes (cm)	Fish Capture / CPUE									
																Cisco		Lake trout		Lake whitefish		Least cisco		Total	
			Easting	Northing												n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Windy Lake	WLGN-01	1	431457	7554670	8/6/2008	09:30	8/6/2008	10:55	4.8	3.5	1.4	27.9	3	0.05	6.35, 5.08, 6.35	3	60.78	3	60.78					6	121.57
	WLGN-02	1	431434	7554540	8/6/2008	09:35	8/6/2008	11:05	9.7	3.8	1.5	27.9	3	0.05	3.81, 3.81, 6.35	4	76.54							4	76.54
	WLGN-03	1	431372	7554424	8/6/2008	09:40	8/6/2008	11:20	5.5	5.5	1.7	27.9	3	0.06	3.81, 3.81, 5.08	5	86.11	2	34.44					7	120.56
	WLGN-04	1	431361	7554226	8/6/2008	14:00	8/6/2008	15:15	13.0	3.0	1.3	27.9	3	0.04	3.81, 6.35, 3.81	2	45.93							2	45.93
	WLGN-05	1	431338	7554125	8/6/2008	14:10	8/6/2008	15:50	11.6	5.7	1.7	27.9	3	0.06	6.35, 5.08, 6.35	14	241.11	2	34.44					16	275.56
	WLGN-06	1	431260	7554066	8/6/2008	14:17	8/6/2008	16:40	4.9	3.9	2.4	27.9	3	0.08	3.81, 3.81, 5.08	2	24.09	1	12.04					3	36.13
	WLGN-07	1	431430	7554029	8/6/2008	15:30	8/6/2008	16:50	18.9	6.5	1.3	27.9	3	0.05	3.81, 6.35, 3.81	9	193.75	1	21.53					10	215.28
	WLGN-08	1	431200	7553990	8/7/2008	08:45	8/7/2008	9:50	5.3	4.1	1.1	27.9	3	0.04	3.81. 6.35, 3.81	6	158.97							6	158.97
	WLGN-09	1	431264	7553819	8/7/2008	08:55	8/7/2008	10:15	14.5	12.0	1.3	27.9	3	0.05	3.81, 3.81, 5.08	9	193.75							9	193.75
	WLGN-10	1	431021	7553830	8/7/2008	09:05	8/7/2008	11:00	4.7	4.6	1.9	27.9	3	0.07	6.35, 5.08, 6.35	11	164.73							11	164.73
	WLGN-11	1	431214	7553655	8/7/2008	10:00	8/7/2008	12:17	13.2	9.4	2.3	27.9	3	0.08	3.81, 6.35, 3.81	15	188.56							15	188.56
	WLGN-12	1	430969	7553666	8/7/2008	10:20	8/7/2008	13:00	7.3	4.7	2.7	27.9	3	0.09	3.81, 3.81, 5.08	18	193.75							18	193.75
	WLGN-13	1	431350	7553453	8/7/2008	11:13	8/7/2008	14:00	17.2	12.4	2.8	27.9	3	0.10	6.35, 5.08, 6.35	19	195.94	2	20.63					21	216.57
	WLGN-14	1	430960	7553155	8/7/2008	12:25	8/7/2008	14:45	14.8	7.7	2.3	27.9	3	0.08	3.81, 6.35, 3.81	3	36.90	1	12.30					4	49.21
	WLGN-15	1	431055	7553001	8/7/2008	13:10	8/7/2008	15:25	18.5	17.8	2.3	27.9	3	0.08	3.81, 3.81, 5.08	19	242.39	4	51.03					23	293.42
	WLGN-16	1	431027	7553188	8/7/2008	15:00	8/7/2008	16:40	17.5	4.3	1.7	27.9	3	0.06	3.81, 6.35, 3.81	4	68.89	1	17.22					5	86.11
	WLGN-17	1	432248	7552671	8/8/2008	08:50	8/8/2008	10:20	11.2	9.8	1.5	27.9	3	0.05	3.81, 6.35, 3.81	12	229.63							12	229.63
	WLGN-18	1	432261	7552520	8/8/2008	09:00	8/8/2008	11:10			2.2	27.9	3	0.08	3.81, 3.81, 5.08	4	52.99							4	52.99
	WLGN-19	1	432226	7552375	8/8/2008	09:08	8/8/2008	11:50	12.1	10.5	2.7	27.9	3	0.09	6.35, 5.08, 6.35	12	127.57	1	10.63					13	138.20
	WLGN-20	1	432180	7552213	8/8/2008	10:30	8/8/2008	12:40	13.6	11.4	2.2	27.9	3	0.08	3.81, 6.35, 3.81	4	52.99	1	13.25					5	66.24
	WLGN-21	1	432193	7551983	8/8/2008	11:15	8/8/2008	13:15	13.8	13.4	2.0	27.9	3	0.07	3.81, 3.81, 5.08	8	114.82	2	28.70					10	143.52
	WLGN-22	1	432277	7551835	8/8/2008	11:55	8/8/2008	14:20	11.1	8.0	2.4	27.9	3	0.08	6.35, 5.08, 6.35	24	285.06	3	35.63					27	320.69
	WLGN-23	1	431805	7551989	8/8/2008	12:55	8/8/2008	15:40	17.2	12.9	2.8	27.9	3	0.10	3.81, 6.35, 3.81	8	83.50	1	10.44					9	93.94
	WLGN-24	1	431602	7551764	8/8/2008	13:45	8/8/2008	16:00	14.3	13.6	2.3	27.9	3	0.08	3.81, 3.81, 5.08	5	63.79	1	12.76					6	76.54
	WLGN-25	1	431517	7551506	8/8/2008	15:25	8/8/2008	16:57	10.1	6.4	1.5	27.9	3	0.05	6.35, 5.08, 6.35	7	131.04	1	18.72					8	149.76
	Total										**49.0**			**1.71**		**227**	**132.93**	**27**	**15.81**					**254**	**148.74**

n=number of fish captured

CPUE= catch per unit effort

1 net unit=100 m^2 of net set for 24 h

CPUE=number of fish / net unit

Appendix C9. Minnow trapping locations, effort, captures, and CPUE, 2008

Waterbody	Site ID	Set Coordinates (UTM 13W NAD83)		Set Date	Set Time	Pull Date	Pull Time	Set Period (h)	Fish Captures/CPUE	
									Total	
		Easting	Northing						n	CPUE
Windy Lake	WLMT-01	431168	7552463	08-Aug-08	8:35	12-Aug-08	9:45	97.00	0	0.00
	WLMT-02	431168	7552443	08-Aug-08	8:35	12-Aug-08	9:45	97.00	0	0.00
	Total							**194.00**	**0**	**0.00**

n=number of fish captured

CPUE=catch per unit effort

CPUE=number of fish / 24 h