TABLES AND FIGURES

Table 1. Location ID and UTMs of water and sediment quality sampling sites in the Lalor Lake Study Area.

Sample Location	Location ID	UTM		
		Zone	Easting	Northing
Lalor Lake	LL 1	14 U	425863	6081913
	LL 2	14 U	425739	6081521
	LL 3	14 U	425727	6081029
Maw Lake	ML 1	14 U	425537	6082938
	ML 2	14 U	425673	6082802
	ML 3	14 U	425727	6082570
Unnamed Creek 1	UC1-1	14 U	425554	6086134
Varnson Lake	VL 1*	14 U	426309	6088098
	VL 2	14 U	425972	6087790
	VL 3*	14 U	425630	6086974
Cook Lake	CL 1	14 U	424719	6081859
	CL 2	14 U	424524	6079957
	CL 3	14 U	424121	6079008
Unnamed Lake 1	UL1-2B	14 U	425450	6080604
Squall Lake	SL 1	14 U	429026	6089092
	SL 2	14 U	429952	6087792
	SL 3	14 U	430565	6088808
	SL 4	14 U	431910	6089959
Snow Creek	SC 1	14 U	428715	6084809
	SC 2	14 U	428784	6083477
Snow Lake Narrows	SLN 1	14 U	429370	6082800
	SLN 2	14 U	431108	6083255
	SLN 3	14 U	432505	6082716
Tern Creek	TC 1	14 U	428823	6081516
Tern Ditch	TD 1	14 U	430036	6079892
Tern Lake	TL 2B	14 U	430340	6081866

*sites VL 1 and VL 3 were not sampled for sediment quality.

Table 2. Water quality parameters measured in the Lalor Lake Study Area.

Parameter
Routine Parameters
Acidity (as $CaCO_3$)
Hardness (Total) $CaCO_3$
Total Organic Carbon
Total Inorganic Carbon
Ammonia Nitrogen-N
Nitrate and Nitrite-N
Nitrite-N
Total Kjeldahl Nitrogen
Total Phosphorus
Dissolved phosphorus
pH, Laboratory
Conductivity
Total Dissolved Solids
Total Suspended Solids
Turbidity
True Color
Total Alkalinity $CaCO_3$
Bicarbonate Alkalinity HCO_3
Carbonate Alkalinity CO_3
Hydroxide Alkalinity OH
Metals and Major Ions
Total Metals and Major Ions
Dissolved Metals and Major Ions
Total Mercury
Dissolved Mercury
Biological
Chlorophyll *a* (and pheophytin)

Table 3. Water chemistry and physical parameters measured *in situ* in the Lalor Lake Study Area, September 2007.

Sample Location	Location ID	Sample Date	Sample Time	Water Depth	Measurement Depth	Temperature	pH	Dissolved Oxygen		Specific Conductance	Conductivity	Turbidity	Secchi Depth	Ke	z_t
				(m)	(m)	(°C)		(mg/L)	(% Saturation)	(µS/cm)	(µS/cm)	(NTU)	(m)	(m^{-1})	(m)
Lalor Lake	LL 1	09/08/07	10:45	1.6	0.0	13.3	7.90	9.28	90	132.4	103.0	0.44	-	-	-
					0.5	13.3	7.84	9.02	88	132.5	102.9	0.39	-	-	-
					1.0	13.3	7.82	9.25	90	133.5	103.6	0.53	-	-	-
					1.5	13.3	7.80	9.42	92	132.9	103.0	0.47	-	-	-
	LL 2	09/08/07	11:35	1.3	0.0	13.2	7.97	9.82	96	132.2	103.2	0.41	-	-	-
					0.5	13.3	7.97	9.46	92	133.2	103.2	0.41	-	-	-
					1.0	13.2	8.06	9.58	93	133.2	103.2	0.42	-	-	-
	LL 3	09/08/07	12:45	1.2	0.0	13.5	8.16	9.70	95	133.5	103.6	0.38	-	-	-
					0.5	13.5	8.16	9.65	94	133.2	103.9	0.41	-	-	-
					1.0	13.5	8.16	9.66	95	132.4	103.1	0.35	-	-	-
Maw Lake	ML 1	09/09/07	11:15	1.0	0.0	12.7	8.44	10.13	98	95.6	73.4	0.29	-	-	-
					0.5	12.6	8.15	10.07	97	95.8	73.1	0.20	-	-	-
					0.8	12.5	8.09	10.44	100	95.4	72.9	0.22	-	-	-
	ML 2	09/09/07	11:40	1.3	0.0	12.8	8.20	10.21	99	95.2	73.0	0.13	-	-	-
					0.5	12.8	8.06	10.04	97	95.4	72.8	0.12	-	-	-
					1.0	12.6	8.04	10.02	96	95.2	72.5	0.14	-	-	-
	ML 3	09/09/07	12:15	1.0	0.0	12.7	8.11	10.17	98	95.9	74.2	0.25	-	-	-
					0.5	12.7	8.03	9.92	96	95.9	73.7	0.32	-	-	-
					0.8	12.1	7.95	9.78	93	95.2	73.7	0.29	-	-	-
Unnamed Creek 1	UC1-1	15/9/2007	9:40	1.5	0.0	7.1	8.50	5.12	44	122.1	80.0	-	-	-	-
Varnson Lake	VL 1	09/10/07	13:25	1.7	0.0	13.0	7.48	9.86	95	86.4	66.6	0.20	-	-	-
					0.5	13.0	7.60	9.68	94	86.4	66.6	0.21	-	-	-
					1.0	13.0	7.56	9.56	93	86.4	66.6	0.22	-	-	-
					1.5	13.0	7.56	9.71	94	86.2	66.6	0.52	-	-	-
	VL 2	09/10/07	13:40	1.6	0.0	13.0	7.65	9.82	95	86.8	66.7	0.41	-	-	-
					0.5	13.0	7.66	9.78	95	86.7	66.6	0.45	-	-	-
					1.0	13.0	7.65	9.73	94	86.5	66.6	0.54	-	-	-
					1.5	13.0	7.67	9.72	94	86.7	66.6	0.41	-	-	-
	VL 3	09/10/07	14:30	0.9	0.0	12.7	7.60	9.70	93	89.5	61.5	0.10	-	-	-
					0.5	12.7	7.53	9.48	91	89.8	69.3	0.02	-	-	-

Table 3. - Continued -

Sample Location	Location ID	Sample Date	Sample Time	Water Depth	Measurement Depth	Temperature	pH	Dissolved Oxygen		Specific Conductance	Conductivity	Turbidity	Secchi Depth	Ke	z_1
				(m)	(m)	(°C)		(mg/L)	(% Saturation)	(µS/cm)	(µS/cm)	(NTU)	(m)	(m^{-1})	(m)
Cook Lake	CL 1	09/12/07	13:30	6.5	0.0	13.1	7.65	9.94	96	114.2	88.0	1.72	2.3	0.58	7.43
					0.5	13.1	7.59	9.81	95	114.0	88.3	1.71	-	-	-
					1.0	13.2	7.58	9.79	95	114.4	88.1	1.70	-	-	-
					1.5	13.2	7.59	9.68	94	113.9	88.0	1.56	-	-	-
					2.0	13.2	7.59	9.72	94	113.7	88.1	1.58	-	-	-
					2.5	13.2	7.59	9.71	94	113.7	88.1	1.74	-	-	-
					3.0	13.2	7.60	9.70	94	113.7	88.0	1.67	-	-	-
					3.5	13.2	7.60	9.61	93	113.7	88.1	1.70	-	-	-
					4.0	13.2	7.60	9.70	94	113.7	88.1	1.47	-	-	-
					4.5	13.2	7.59	9.71	94	113.7	88.1	1.76	-	-	-
					5.0	13.2	7.61	9.66	94	113.7	88.0	1.58	-	-	-
					5.5	13.2	7.60	9.71	94	113.7	88.0	1.60	-	-	-
					6.0	13.2	7.60	9.74	95	113.6	88.0	1.56	-	-	-
	CL 2	09/12/07	14:25	7.5	0.0	13.3	7.76	9.78	95	114.0	88.4	1.94	2.1	0.63	6.77
					0.5	13.3	7.72	9.68	94	113.8	88.3	1.77	-	-	-
					1.0	13.4	7.73	9.52	93	113.8	88.4	2.04	-	-	-
					1.5	13.4	7.70	9.55	93	113.8	88.3	1.79	-	-	-
					2.0	13.4	7.71	9.47	92	113.9	88.3	1.69	-	-	-
					2.5	13.3	7.71	9.48	92	113.8	88.4	2.26	-	-	-
					3.0	13.4	7.70	9.45	92	113.6	88.4	1.71	-	-	-
					3.5	13.4	7.70	9.53	93	113.6	88.4	1.71	-	-	-
					4.0	13.4	7.69	9.53	93	113.6	88.4	1.73	-	-	-
					4.5	13.4	7.69	9.44	92	113.6	88.4	1.77	-	-	-
					5.0	13.4	7.68	9.39	92	113.5	88.4	1.93	-	-	-
					5.5	13.4	7.68	9.45	92	113.5	88.4	1.91	-	-	-
					6.0	13.4	7.66	9.56	93	113.3	88.7	2.04	-	-	-
					6.5	13.4	7.67	9.50	93	113.9	88.6	1.95	-	-	-
	CL 3	09/12/07	15:00	5.5	0.0	12.5	7.86	10.23	98	113.6	86.3	2.37	1.9	0.70	6.11
					0.5	12.6	7.85	10.08	97	113.5	86.4	2.07	-	-	-
					1.0	12.6	7.84	9.90	95	113.5	86.4	2.32	-	-	-
					1.5	12.6	7.82	9.96	96	113.6	86.4	1.92	-	-	-
					2.0	12.6	7.82	9.78	94	113.2	86.5	1.84	-	-	-
					2.5	12.6	7.82	9.84	95	113.3	86.4	2.07	-	-	-
					3.0	12.6	7.80	9.69	93	113.2	86.4	1.92	-	-	-
					3.5	12.6	7.80	9.73	93	113.2	86.4	1.81	-	-	-
					4.0	12.6	7.81	9.75	94	113.1	86.4	2.03	-	-	-
					4.5	12.5	7.78	9.73	93	113.1	86.3	2.00	-	-	-
					5.0	12.0	7.77	9.66	92	113.0	85.4	2.17	-	-	-

Table 3. - Continued –

Sample Location	Location ID	Sample Date	Sample Time	Water Depth	Measurement Depth	Temperature	pH	Dissolved Oxygen		Specific Conductance	Conductivity	Turbidity	Secchi Depth	Ke	z_1
				(m)	(m)	(°C)		(mg/L)	(% Saturation)	(µS/cm)	(µS/cm)	(NTU)	(m)	(m^{-1})	(m)
Unnamed Lake 1	UL1-2B	13/9/2007	10:15	1.5	0.0	7.7	7.88	11.40	99	82.1	54.8	1.03	-	-	-
					0.5	7.7	7.54	11.22	98	82.2	54.9	1.07	-	-	-
					1.0	7.6	7.40	11.23	98	82.0	54.8	1.02	-	-	-
Squall Lake	SL 1	13/9/2007	13:15	9.3	0.0	12.4	7.84	10.36	99	85.7	65.2	3.76	1.7	0.76	5.61
					0.5	12.4	7.83	10.24	98	85.8	65.3	4.04	-	-	-
					1.0	12.4	7.81	10.26	98	85.7	65.4	3.36	-	-	-
					1.5	12.4	7.81	10.36	99	85.5	65.5	3.73	-	-	-
					2.0	12.4	7.81	10.38	99	85.7	65.2	3.55	-	-	-
					2.5	12.4	7.79	10.38	99	85.7	65.2	3.34	-	-	-
					3.0	12.4	7.78	10.32	99	85.7	65.2	3.65	-	-	-
					3.5	12.4	7.76	10.40	99	85.7	65.3	3.83	-	-	-
					4.0	12.4	7.75	10.40	99	85.7	65.2	3.72	-	-	-
					4.5	12.4	7.74	10.41	99	85.7	65.2	3.52	-	-	-
					5.0	12.4	7.74	10.40	99	85.7	65.2	3.59	-	-	-
					5.5	12.4	7.73	10.39	99	85.8	65.4	3.64	-	-	-
					6.0	12.3	7.72	10.60	101	86.2	65.3	4.01	-	-	-
					6.5	12.3	7.72	10.64	101	86.0	65.3	4.28	-	-	-
	SL 2	13/9/2007	13:40	8.2	0.0	12.2	7.90	10.48	100	85.8	65.6	3.67	1.6	0.84	5.12
					0.5	12.2	7.88	10.44	99	86.0	65.6	3.53	-	-	-
					1.0	12.2	7.82	10.37	99	85.8	65.6	3.73	-	-	-
					1.5	12.2	7.89	10.53	100	85.8	65.6	3.80	-	-	-
					2.0	12.2	7.80	10.44	99	85.8	65.7	4.16	-	-	-
					2.5	12.2	7.86	10.47	100	85.8	65.6	3.37	-	-	-
					3.0	12.2	7.84	10.52	100	85.7	65.6	4.26	-	-	-
					3.5	12.2	7.78	10.51	100	85.8	65.6	3.87	-	-	-
					4.0	12.2	7.82	10.52	100	85.8	65.6	3.97	-	-	-
					4.5	12.2	7.79	10.51	100	85.8	65.6	3.44	-	-	-
					5.0	12.2	7.79	10.57	101	85.6	65.6	3.73	-	-	-
					5.5	12.2	7.79	10.63	101	85.6	65.6	3.65	-	-	-
					6.0	12.2	7.80	10.61	101	85.7	65.6	3.98	-	-	-
					6.5	12.1	7.78	10.75	102	85.8	65.5	4.07	-	-	-
	SL 3	13/9/2007	12:45	9.4	0.0	12.7	7.78	10.24	98	85.9	65.2	3.22	1.8	0.74	5.78
					0.5	12.8	7.79	10.26	99	85.9	65.3	3.12	-	-	-
					1.0	12.8	7.79	10.21	98	85.9	64.9	2.96	-	-	-
					1.5	12.8	7.76	10.25	99	86.3	65.5	2.97	-	-	-
					2.0	12.7	7.76	10.27	99	85.8	65.3	3.33	-	-	-
					2.5	12.7	7.73	10.34	99	86.0	65.3	3.33	-	-	-
					3.0	12.7	7.73	10.32	99	85.9	65.3	3.46	-	-	-
					3.5	12.7	7.70	10.32	99	86.1	65.1	3.31	-	-	-

Table 3. - Continued –

Sample Location	Location ID	Sample Date	Sample Time	Water Depth	Measurement Depth	Temperature	pH	Dissolved Oxygen		Specific Conductance	Conductivity	Turbidity	Secchi Depth	Ke	z_1
				(m)	(m)	(°C)		(mg/L)	(% Saturation)	(µS/cm)	(µS/cm)	(NTU)	(m)	(m^{-1})	(m)
	SL 3				4.0	12.7	7.69	10.33	99	85.9	65.3	3.45	-	-	-
					4.5	12.7	7.69	10.31	99	85.7	65.1	3.62	-	-	-
					5.0	12.7	7.68	10.35	99	86.0	65.0	3.50	-	-	-
					5.5	12.7	7.65	10.33	99	85.7	65.0	3.66	-	-	-
					6.0	12.6	7.62	10.38	100	86.2	65.3	3.34	-	-	-
					6.5	12.6	7.63	10.36	99	86.0	65.0	3.11	-	-	-
	SL 4	13/9/2007	12:10	6.9	0.0	12.5	7.54	10.26	98	85.6	64.7	3.25	1.9	0.68	6.27
					0.5	12.5	7.56	10.13	97	85.6	64.7	3.28	-	-	-
					1.0	12.5	7.58	10.19	98	85.7	64.8	3.47	-	-	-
					1.5	12.5	7.57	10.13	97	85.6	64.7	3.51	-	-	-
					2.0	12.6	7.60	10.19	98	85.7	64.8	3.65	-	-	-
					2.5	12.5	7.61	10.15	97	85.6	64.7	3.26	-	-	-
					3.0	12.5	7.60	10.18	97	85.5	64.7	3.23	-	-	-
					3.5	12.5	7.60	10.17	97	85.6	64.7	3.90	-	-	-
					4.0	12.5	7.58	10.21	98	85.9	64.7	3.72	-	-	-
					4.5	12.5	7.59	10.19	98	85.6	64.7	3.30	-	-	-
					5.0	12.5	7.58	10.13	97	85.6	64.7	3.43	-	-	-
					5.5	12.5	7.57	10.18	97	85.8	64.7	3.37	-	-	-
					6.0	12.5	7.46	10.29	98	85.8	64.7	3.08	-	-	-
					6.5	12.5	7.44	10.37	99	85.6	64.6	3.06	-	-	-
Snow Creek	SC 1	15/9/2007	10:45	-	0.0	8.1	7.59	9.08	80	116.5	78.9	31	-	-	-
	SC 2	15/9/2007	13:50	1.5	0.0	9.4	7.60	9.76	88	127.2	89.3	3.03	-	-	-
					0.5	9.4	7.60	10.11	91	126.4	88.6	2.77	-	-	-
					1.0	8.9	7.45	9.83	87	126.5	86.4	3.03	-	-	-
					1.3	8.3	7.43	9.81	86	126.5	86.4	3.16	-	-	-
Snow Lake Narrows	SLN 1	15/9/2007	14:15	9.8	0.0	12.5	7.56	8.93	85	101.9	77.6	2.89	-	-	-
					0.5	12.5	7.46	8.91	85	101.8	77.6	2.83	-	-	-
					1.0	12.4	7.46	8.89	85	101.8	77.5	2.50	-	-	-
					1.5	12.4	7.49	8.85	84	101.9	77.3	2.66	-	-	-
					2.0	12.4	7.48	8.77	84	101.8	77.3	2.61	-	-	-
					2.5	12.3	7.46	8.71	83	101.9	77.2	2.52	-	-	-
					3.0	12.2	7.47	8.72	83	101.5	76.3	2.71	-	-	-
					3.5	12.1	7.46	8.57	81	101.7	76.6	2.49	-	-	-
					4.0	12.0	7.42	8.53	81	101.9	76.6	2.54	-	-	-
					4.5	12.0	7.42	8.50	80	101.9	76.6	2.36	-	-	-
					5.0	12.0	7.42	8.59	81	101.9	76.6	2.37	-	-	-
					5.5	12.0	7.39	8.54	81	101.9	76.6	2.49	-	-	-

Table 3. - Continued –

Sample Location	Location ID	Sample Date	Sample Time	Water Depth	Measurement Depth	Temperature	pH	Dissolved Oxygen		Specific Conductance	Conductivity	Turbidity	Secchi Depth	Ke	z_1
				(m)	(m)	(°C)		(mg/L)	(% Saturation)	(µS/cm)	(µS/cm)	(NTU)	(m)	(m^{-1})	(m)
	SLN 1				6.0	12.0	7.39	8.74	83	101.8	76.6	2.65	-	-	-
					6.5	12.0	7.38	8.78	83	101.8	76.6	2.41	-	-	-
	SLN 2	15/9/2007	14:45	5.3	0.0	12.0	7.70	9.96	94	102.5	77.1	2.33	-	-	-
					0.5	12.1	7.63	9.69	92	102.4	77.1	2.89	-	-	-
					1.0	12.1	7.63	9.66	92	102.3	77.1	2.83	-	-	-
					1.5	12.1	7.58	9.72	92	102.5	77.0	2.58	-	-	-
					2.0	11.9	7.58	9.54	90	102.5	76.6	2.88	-	-	-
					2.5	11.8	7.57	9.48	89	102.4	76.6	2.66	-	-	-
					3.0	11.8	7.56	9.46	89	102.4	76.6	2.40	-	-	-
					3.5	11.8	7.54	9.45	89	102.4	76.6	2.70	-	-	-
					4.0	11.8	7.52	9.53	90	102.3	76.5	2.60	-	-	-
					4.5	11.8	7.53	9.56	90	102.3	76.5	2.74	-	-	-
					5.0	11.7	7.52	9.34	88	102.7	76.5	3.00	-	-	-
	SLN 3	15/9/2007	15:05	4.8	0.0	12.8	7.69	9.75	94	107.9	82.8	3.10	-	-	-
					0.5	12.8	7.70	9.65	93	108.0	82.7	3.32	-	-	-
					1.0	12.7	7.68	9.66	93	107.8	82.5	3.13	-	-	-
					1.5	12.6	7.67	9.63	92	107.7	82.1	3.33	-	-	-
					2.0	12.5	7.65	9.62	92	107.8	82.2	2.92	-	-	-
					2.5	12.4	7.65	9.53	91	107.8	81.9	3.24	-	-	-
					3.0	12.4	7.65	9.64	92	107.7	81.7	3.63	-	-	-
					3.5	12.4	7.61	9.65	92	107.7	81.7	3.06	-	-	-
					4.0	12.4	7.63	9.72	93	107.5	81.6	3.27	-	-	-
					4.5	12.4	7.62	9.73	93	107.7	81.6	3.27	-	-	-
Tern Creek	TC 1	15/9/2007	11:20	-	0.0	6.5	7.48	6.44	55	131.7	85.4	not detected	-	-	-
Tern Ditch	TD 1	15/9/2007	12:00	-	0.0	7.0	7.18	8.01	69	192.3	127.7	16.10	-	-	-
Tern Lake	TL 2B	09/11/07	16:26	1.6	0.0	11.2	7.40	10.53	98	120.9	89.0	1.36	-	-	-
					0.5	11.3	7.40	10.29	96	121.0	89.1	1.33	-	-	-
					1.0	11.3	7.40	10.27	96	120.7	89.2	1.40	-	-	-
					1.5	11.2	7.40	10.21	95	120.9	89.0	1.44	-	-	-

Table 4. Detailed results of routine laboratory water chemistry data from the Lalor Lake Study Area: Fall 2007.

Sample Location	Location ID	Lab ID	Sample Date	Alkalinity				Nitrogen						
				as Bicarbonate (HCO_3^-) (mg/L)	Total as $CaCO_3$ (mg/L)	as Carbonate (CO_3^{2-}) (mg/L)	as Hydroxide (OH^-) (mg/L)	Dissolved Ammonia (mg/L N)	Dissolved Nitrate/ nitrite (mg/L N)	Dissolved Nitrite (mg/L N)	TKN (mg/L)	Organic Nitrogen [1] (mg/L N)	Total Nitrogen [2] (mg/L)	Dissolved Inorganic Nitrogen [3] (mg/L N)
Analytical Detection Limit				2	1	0.6	0.4	0.003	0.005	0.01	0.2	-	-	-
Lalor Lake	LL 1	LL-1-S	8/9/2007	93	77	<0.6	<0.4	0.036	0.036	<0.01	1.1	1.1	1.1	0.072
	LL 2	LL-2-S [5]	8/9/2007	94	77	<0.6	<0.4	0.040	0.045	<0.01	1.1	1.1	1.2	0.085
		LL-2-B	8/9/2007	93	76	<0.6	<0.4	0.045	0.057	<0.01	1.1	1.1	1.2	0.102
	LL 3	LL-3-S	8/9/2007	93	76	<0.6	<0.4	0.040	0.041	<0.01	1.1	1.1	1.1	0.081
Maw Lake	ML 1	ML-1-S	9/9/2007	67	55	<0.6	<0.4	0.042	0.006	<0.01	1.0	1.0	1.0	0.048
	ML 2	ML-2-S	9/9/2007	67	55	<0.6	<0.4	0.050	0.008	<0.01	1.0	1.0	1.0	0.058
	ML 3	ML-3-S	9/9/2007	68	56	<0.6	<0.4	0.034	0.008	<0.01	1.0	1.0	1.0	0.042
Unnamed Creek 1	UC1-1	UC1-1-S	15/9/2007	86	70	<0.6	<0.4	0.025	0.016	<0.01	0.7	0.7	0.7	0.041
Varnson Lake	VL 1	VL-1-S	10/9/2007	59	48	<0.6	<0.4	0.011	0.018	<0.01	0.9	0.9	0.9	0.029
	VL 2	VL-2-S	10/9/2007	59	48	<0.6	<0.4	0.008	0.012	<0.01	0.8	0.8	0.8	0.020
	VL 3	VL-3-S	10/9/2007	61	50	<0.6	<0.4	0.014	0.012	<0.01	0.7	0.7	0.7	0.026
Cook Lake	CL 1	CL-1-S	12/9/2007	81	66	<0.6	<0.4	0.005	0.007	<0.01	0.7	0.7	0.7	0.012
		CL-1-B	12/9/2007	79	65	<0.6	<0.4	0.005	0.013	<0.01	0.7	0.7	0.7	0.018
	CL 2	CL-2-S	12/9/2007	78	64	<0.6	<0.4	0.007	0.009	<0.01	0.7	0.7	0.7	0.016
		CL-2-B	12/9/2007	78	64	<0.6	<0.4	0.004	0.021	<0.01	0.7	0.7	0.7	0.025
	CL 3	CL-3-S	12/9/2007	78	64	<0.6	<0.4	0.006	0.032	<0.01	0.7	0.7	0.7	0.038
		CL-3-B [5]	12/9/2007	73	68	<0.6	<0.4	0.006	0.019	<0.01	0.7	0.7	0.7	0.025
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	57	47	<0.6	<0.4	0.035	0.009	<0.01	0.9	0.9	0.9	0.044
Squall Lake	SL 1	SL-1-S	13/9/2007	61	50	<0.6	<0.4	0.029	0.016	<0.01	0.6	0.6	0.6	0.045
	SL 2	SL-2-S	13/9/2007	59	49	<0.6	<0.4	0.031	0.017	<0.01	0.6	0.6	0.6	0.048
	SL 3	SL-3-S	13/9/2007	61	50	<0.6	<0.4	0.005	0.009	<0.01	0.6	0.6	0.6	0.014
	SL 4	SL-4-S	13/9/2007	61	50	<0.6	<0.4	0.017	0.010	<0.01	0.6	0.6	0.6	0.027
Snow Creek	SC 1	SC-1	15/9/2007	76	62	<0.6	<0.4	0.028	0.013	<0.01	0.7	0.7	0.7	0.041
	SC 2	SC-2	15/9/2007	87	72	<0.6	<0.4	0.042	0.027	<0.01	0.8	0.8	0.8	0.069
Snow Lake Narrows	SLN 1	SLN-1	15/9/2007	70	57	<0.6	<0.4	0.063	0.012	<0.01	0.8	0.7	0.8	0.075
	SLN 2	SLN-2	15/9/2007	66	54	<0.6	<0.4	0.037	0.010	<0.01	0.8	0.8	0.8	0.047
	SLN 3	SLN-3	15/9/2007	68	56	<0.6	<0.4	0.045	0.017	<0.01	0.7	0.7	0.7	0.062
Tern Creek	TC 1	TC-1	15/9/2007	86	70	<0.6	<0.4	0.011	0.012	<0.01	0.7	0.7	0.7	0.023
Tern Ditch	TD 1	TD-1	15/9/2007	118	97	<0.6	<0.4	0.113	0.071	0.01	1.9	1.8	2.0	0.184
Tern Lake	TL 2B	TL-1-S	11/9/2007	72	59	<0.6	<0.4	0.011	0.045	<0.01	1.0	1.0	1.0	0.056

Table 4. - Continued –

Sample Location	Location ID	Lab ID	Sample Date	Phosphorus			N:P Molar Ratios			Carbon			TDS	Conductivity
				Dissolved (mg/L)	Total (mg/L)	Dissolved Fraction (%)	TN:TP	DIN:DP	DIN:TP	TOC (mg/L)	TIC (mg/L)	TC[4] (mg/L)	(mg/L)	(µmhos/cm)
Analytical Detection Limit				0.001	0.001	-	-	-	-	1	1		5	0.4
Lalor Lake	LL 1	LL-1-S	8/9/2007	0.004	0.008	50	314	40	20	20	19	39	110	148
	LL 2	LL-2-S[5]	8/9/2007	0.006	0.009	60	291	38	22	20	18	38	123	148
		LL-2-B	8/9/2007	0.005	0.008	63	320	45	28	20	18	38	120	147
	LL 3	LL-3-S	8/9/2007	0.004	0.009	44	280	45	20	20	18	38	120	147
Maw Lake	ML 1	ML-1-S	9/9/2007	0.005	0.010	50	222	21	11	23	13	36	78	108
	ML 2	ML-2-S	9/9/2007	0.005	0.011	45	203	26	12	23	12	35	110	107
	ML 3	ML-3-S	9/9/2007	0.006	0.010	60	223	15	9	22	12	34	110	108
Unnamed Creek 1	UC1-1	UC1-1-S	15/9/2007	0.003	0.007	43	226	30	13	24	13	37	84	137
Varnson Lake	VL 1	VL-1-S	10/9/2007	0.004	0.010	40	203	16	6	20	11	31	84	97
	VL 2	VL-2-S	10/9/2007	0.006	0.013	46	138	7	3	19	10	29	98	98
	VL 3	VL-3-S	10/9/2007	0.004	0.012	33	131	14	5	19	11	30	100	102
Cook Lake	CL 1	CL-1-S	12/9/2007	0.007	0.024	29	65	4	1	14	15	29	72	137
		CL-1-B	12/9/2007	0.008	0.022	36	72	5	2	14	14	28	52	137
	CL 2	CL-2-S	12/9/2007	0.009	0.023	39	68	4	2	13	14	27	78	138
		CL-2-B	12/9/2007	0.006	0.024	25	66	9	2	13	14	27	74	138
	CL 3	CL-3-S	12/9/2007	0.006	0.031	19	52	14	3	16	13	29	82	137
		CL-3-B[5]	12/9/2007	0.008	0.021	37	77	7	3	15	13	28	77	138
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	0.003	0.008	38	251	32	12	24	9	33	98	92.5
Squall Lake	SL 1	SL-1-S	13/9/2007	0.005	0.018	28	76	20	6	19	10	29	88	96.4
	SL 2	SL-2-S	13/9/2007	0.006	0.016	38	85	18	7	18	10	28	92	96.2
	SL 3	SL-3-S	13/9/2007	0.004	0.016	25	84	8	2	17	9	26	100	96.2
	SL 4	SL-4-S	13/9/2007	0.005	0.016	31	84	12	4	18	9	27	48	96.1
Snow Creek	SC 1	SC-1	15/9/2007	0.011	0.027	41	58	8	3	23	10	33	82	126
	SC 2	SC-2	15/9/2007	0.008	0.023	35	80	19	7	25	14	39	98	143
Snow Lake Narrows	SLN 1	SLN-1	15/9/2007	0.014	0.042	33	43	12	4	23	8	31	74	114
	SLN 2	SLN-2	15/9/2007	0.010	0.026	38	69	10	4	23	8	31	72	114
	SLN 3	SLN-3	15/9/2007	0.012	0.027	44	59	11	5	22	8	30	68	120
Tern Creek	TC 1	TC-1	15/9/2007	0.004	0.008	50	197	13	6	30	12	42	150	147
Tern Ditch	TD 1	TD-1	15/9/2007	0.011	0.074	15	59	37	5	46	15	61	210	216
Tern Lake	TL 2B	TL-1-S	11/9/2007	0.006	0.017	35	136	21	7	26	12	38	120	136

Table 4. - Continued –

Sample Location	Location ID	Lab ID	Sample Date	Water Clarity				Lab pH	Acidity (as $CaCO_3$) (mg/L)	Algal Pigments		
				Hardness as $CaCO_3$ (mg/L)	TSS (mg/L)	Turbidity (NTU)	True Colour (TCU)			Chlorophyll *a* (µg/L)	Pheophytin (µg/L)	ODb/ODa
Analytical Detection Limit				0.3	2	0.05	5	0.01	1	1	1	1.00
Lalor Lake	LL 1	LL-1-S	8/9/2007	74.9	3	1.0	15	8.21	1	<1	2	1.22
	LL 2	LL-2-S [5]	8/9/2007	74.4	<2	1.0	15	8.25	<1	<1	1	1.31
		LL-2-B	8/9/2007	73.9	<2	1.1	15	8.25	<1	<1	1	1.25
	LL 3	LL-3-S	8/9/2007	73.9	<2	1.0	10	8.24	<1	1	<1	1.38
Maw Lake	ML 1	ML-1-S	9/9/2007	55.0	<2	0.9	35	8.09	1	3	<1	1.67
	ML 2	ML-2-S	9/9/2007	54.2	2	0.8	35	8.07	1	2	<1	1.70
	ML 3	ML-3-S	9/9/2007	55.4	2	0.9	35	8.05	1	2	<1	1.56
Unnamed Creek 1	UC1-1	UC1-1-S	15/9/2007	67.6	<2	0.4	40	7.55	11	1	<1	1.43
Varnson Lake	VL 1	VL-1-S	10/9/2007	47.7	<2	0.7	40	8.09	1	3	<1	1.60
	VL 2	VL-2-S	10/9/2007	47.1	<2	0.8	40	8.09	2	4	<1	1.65
	VL 3	VL-3-S	10/9/2007	49.1	<2	0.6	40	8.05	2	4	<1	1.67
Cook Lake	CL 1	CL-1-S	12/9/2007	61.7	3	2.1	35	8.24	2	7	2	1.53
		CL-1-B	12/9/2007	63.4	2	2.0	35	8.13	2	7	2	1.56
	CL 2	CL-2-S	12/9/2007	60.5	2	2.2	35	7.75	1	10	<1	1.64
		CL-2-B	12/9/2007	60.8	2	2.5	35	7.58	2	10	2	1.60
	CL 3	CL-3-S	12/9/2007	56.3	3	2.2	35	7.90	1	10	1	1.62
		CL-3-B [5]	12/9/2007	60.1	4	2.6	35	7.67	1	9	2	1.59
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	49.7	3	1.3	60	7.89	2	5	1	1.57
Squall Lake	SL 1	SL-1-S	13/9/2007	46.3	6	2.8	35	8.05	1	11	1	1.63
	SL 2	SL-2-S	13/9/2007	48.7	6	2.6	35	8.06	2	13	1	1.63
	SL 3	SL-3-S	13/9/2007	49.2	7	2.7	40	8.06	1	13	1	1.65
	SL 4	SL-4-S	13/9/2007	49.8	5	2.5	35	8.06	2	12	2	1.62
Snow Creek	SC 1	SC-1	15/9/2007	62.5	3	10.0	60	7.82	4	1	<1	1.38
	SC 2	SC-2	15/9/2007	69.5	2	2.5	70	7.93	5	2	3	1.32
Snow Lake Narrows	SLN 1	SLN-1	15/9/2007	54.6	<2	2.4	50	7.98	3	8	3	1.51
	SLN 2	SLN-2	15/9/2007	56.4	<2	2.4	40	8.06	2	11	2	1.60
	SLN 3	SLN-3	15/9/2007	57.9	<2	2.7	40	8.08	2	10	3	1.56
Tern Creek	TC 1	TC-1	15/9/2007	72.0	3	0.4	70	7.60	7	<1	<1	1.70
Tern Ditch	TD 1	TD-1	15/9/2007	111.0	20	6.3	200	7.51	11	47	6	1.62
Tern Lake	TL 2B	TL-1-S	11/9/2007	69.0	4	1.6	80	7.99	2	11	2	1.60

[1] Organic Nitrogen estimated from: TKN - dissolved ammonia.

[2] Total Nitrogen estimated from: TKN + dissolved nitrate/nitrite.

[3] Dissolved Inorganic Nitrogen estmated from: dissolved Ammonia+dissolved nitrate/nitrite.

[4] Total Carbon = total organic carbon + total inorganic carbon.

[5] Mean of triplicate samples

Table 5. CCME (1999) trophic categories for freshwater aquatic ecosystems based on TP (µg/L), and mean concentrations of TP measured across the Study Area.

	Lake Trophic Status (CCME 1999)					
	Ultra-oligotrophic	Oligotrophic	Mesotrophic	Meso-eutrophic	Eutrophic	Hypereutrophic
CCME Trophic Categories (1999)	<4	4 - 10	10 - 20	20 - 35	35 - 100	> 100
Lakes						
Lalor Lake		0.009				
Maw Lake			0.010			
Varnson Lake			0.012			
Cook Lake				0.024		
Unnamed Lake 1		0.008				
Squall Lake			0.017			
Snow Lake Narrows				0.032		
Tern Lake			0.017			
Streams						
Unnamed Creek 1		0.007				
Snow Creek				0.025		
Tern Creek		0.008				
Tern Ditch					0.074	

Table 6. Concentrations of metals in water samples collected in the Lalor Lake Study Area. Values in red are in exceedence of the Manitoba water quality objectives or guidelines for the protection of aquatic life.

Sample Location	Sample ID	Lab ID	Sample Date	Hardness as $CaCO_3$ (mg/L)	Aluminum Dissolved (mg/L)	Aluminum Total (mg/L)	Antimony Dissolved (mg/L)	Antimony Total (mg/L)	Arsenic Dissolved (mg/L)	Arsenic Total (mg/L)	Barium Dissolved (mg/L)	Barium Total (mg/L)	Beryllium Dissolved (mg/L)	Beryllium Total (mg/L)
Analytical Detection Limit				**0.3**	**0.002**	**0.005**	**0.001**	**0.001**	**0.0005**	**0.0005**	**0.0003**	**0.0003**	**0.001**	**0.001**
Lalor Lake	LL 1	LL-1-S	8/9/2007	74.9	<0.002	0.021	<0.001	<0.001	0.0005	0.0008	0.0123	0.0146	<0.001	<0.001
		LL-1-B	8/9/2007	74.5	<0.002	0.012	<0.001	<0.001	<0.0005	0.0006	0.0118	0.0114	<0.001	<0.001
	LL 2	LL-2-S	8/9/2007	74.9	<0.002	0.008	<0.001	<0.001	0.0005	0.0007	0.0116	0.0118	<0.001	<0.001
		LL-4-S	8/9/2007	74.5	<0.002	0.007	<0.001	<0.001	0.0005	0.0006	0.0120	0.0109	<0.001	<0.001
		LL-5-S	8/9/2007	73.7	<0.002	0.007	<0.001	<0.001	0.0005	0.0006	0.0116	0.0109	<0.001	<0.001
			Mean	*74.4*	*<0.002*	*0.007*	*<0.001*	*<0.001*	*0.0005*	*0.0006*	*0.0117*	*0.0112*	*<0.001*	*<0.001*
		LL-2-B	8/9/2007	73.9	<0.002	0.007	<0.001	<0.001	<0.0005	0.0006	0.0116	0.0111	<0.001	<0.001
	LL 3	LL-3-S	8/9/2007	73.9	<0.002	0.008	<0.001	<0.001	<0.0005	0.0006	0.0122	0.0116	<0.001	<0.001
Maw Lake	ML 1	ML-1-S	9/9/2007	55.0	0.005	0.007	<0.001	<0.001	0.0008	0.0009	0.0109	0.0116	<0.001	<0.001
	ML 2	ML-2-S	9/9/2007	54.2	0.003	0.008	<0.001	<0.001	0.0008	0.0008	0.0116	0.0122	<0.001	<0.001
	ML 3	ML-3-S	9/9/2007	55.4	0.003	0.008	<0.001	<0.001	0.0007	0.0009	0.0115	0.0116	<0.001	<0.001
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	67.6	0.004	0.012	<0.001	<0.001	<0.0005	<0.0005	0.0099	0.0130	<0.001	<0.001
Varnson Lake	VL 1	VL-1-S	10/9/2007	47.7	0.003	0.011	<0.001	<0.001	<0.0005	0.0005	0.0043	0.0073	<0.001	<0.001
	VL 2	VL-2-S	10/9/2007	47.1	0.003	0.010	<0.001	<0.001	<0.0005	0.0005	0.0072	0.0070	<0.001	<0.001
	VL 3	VL-3-S	10/9/2007	49.1	0.003	0.008	<0.001	<0.001	<0.0005	<0.0005	0.0093	0.0071	<0.001	<0.001
Cook Lake	CL 1	CL-1-S	12/9/2007	61.7	0.003	0.039	<0.001	<0.001	0.0005	0.0007	0.0160	0.0162	<0.001	<0.001
		CL-1-B	12/9/2007	63.4	0.002	0.037	<0.001	<0.001	<0.0005	0.0007	0.0157	0.0163	<0.001	<0.001
	CL 2	CL-2-S	12/9/2007	60.5	0.003	0.049	<0.001	<0.001	<0.0005	0.0006	0.0161	0.0164	<0.001	<0.001
		CL-2-B	12/9/2007	60.8	0.002	0.048	<0.001	<0.001	<0.0005	0.0005	0.0158	0.0158	<0.001	<0.001
	CL 3	CL-3-S	12/9/2007	56.3	0.003	0.036	<0.001	<0.001	<0.0005	0.0005	0.0171	0.0148	<0.001	<0.001
		CL-3-B	12/9/2007	57.0	0.003	0.055	<0.001	<0.001	<0.0005	0.0005	0.0162	0.0149	<0.001	<0.001
		CL-4-B	12/9/2007	61.8	0.003	0.061	<0.001	<0.001	<0.0005	<0.0005	0.0156	0.0154	<0.001	<0.001
		CL-5-B	12/9/2007	61.6	0.003	0.061	<0.001	<0.001	<0.0005	<0.0005	0.0150	0.0152	<0.001	<0.001
			Mean	*60.1*	*0.003*	*0.059*	*<0.001*	*<0.001*	*<0.0005*	*<0.0005*	*0.0156*	*0.0152*	*<0.001*	*<0.001*
MWQSOG PAL						0.1			0.150					

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Bismuth Dissolved (mg/L)	Bismuth Total (mg/L)	Boron Dissolved (mg/L)	Boron Total (mg/L)	Cadmium Dissolved (mg/L)	Cadmium Total (mg/L)	Calcium Dissolved (mg/L)	Calcium Total (mg/L)	Cesium Dissolved (mg/L)	Cesium Total (mg/L)	Chromium Dissolved (mg/L)	Chromium Total (mg/L)
Analytical Detection Limit				**0.0003**	**0.0002**	**0.009**	**0.03**	**0.00002**	**0.00002**	**0.05**	**0.1**	**0.0001**	**0.0001**	**0.001**	**0.001**
Lalor Lake	LL 1	LL-1-S	8/9/2007	<0.0003	0.0009	<0.02	0.07	<0.00002	<0.00002	18.6	18.6	<0.0001	0.0001	<0.001	<0.001
		LL-1-B	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	18.4	18.4	<0.0001	<0.0001	<0.001	<0.001
	LL 2	LL-2-S	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	18.9	18.5	<0.0001	<0.0001	<0.001	<0.001
		LL-4-S	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	19.5	18.4	<0.0001	<0.0001	<0.001	<0.001
		LL-5-S	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	19.3	18.1	<0.0001	<0.0001	0.001	<0.001
			Mean	*<0.0003*	*<0.0002*	*<0.02*	*<0.03*	*<0.00002*	*<0.00002*	*19.2*	*18.3*	*<0.0001*	*<0.0001*	*<0.001*	*<0.001*
		LL-2-B	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	18.4	18.2	<0.0001	<0.0001	<0.001	<0.001
	LL 3	LL-3-S	8/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	19.2	18.2	<0.0001	<0.0001	<0.001	<0.001
Maw Lake	ML 1	ML-1-S	9/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	13.4	13.5	<0.0001	<0.0001	<0.001	<0.001
	ML 2	ML-2-S	9/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	13.7	13.3	<0.0001	<0.0001	<0.001	<0.001
	ML 3	ML-3-S	9/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	13.7	13.5	<0.0001	<0.0001	<0.001	<0.001
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	16.8	17.2	<0.0001	<0.0001	<0.001	<0.001
Varnson Lake	VL 1	VL-1-S	10/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	6.3	11.8	<0.0001	<0.0001	<0.001	<0.001
	VL 2	VL-2-S	10/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	12.1	11.7	<0.0001	<0.0001	<0.001	<0.001
	VL 3	VL-3-S	10/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	13.1	12.3	<0.0001	<0.0001	<0.001	<0.001
Cook Lake	CL 1	CL-1-S	12/9/2007	0.0004	<0.0002	0.05	<0.03	<0.00002	<0.00002	15.6	14.9	0.0001	<0.0001	<0.001	0.004
		CL-1-B	12/9/2007	<0.0003	<0.0002	0.03	<0.03	<0.00002	<0.00002	15.5	15.5	<0.0001	<0.0001	<0.001	0.003
	CL 2	CL-2-S	12/9/2007	<0.0003	<0.0002	0.02	<0.03	<0.00002	<0.00002	15.7	14.8	<0.0001	<0.0001	0.001	0.002
		CL-2-B	12/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	15.6	14.9	<0.0001	<0.0001	<0.001	0.002
	CL 3	CL-3-S	12/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	16.6	13.6	<0.0001	<0.0001	0.001	<0.001
		CL-3-B	12/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	16.2	13.9	<0.0001	<0.0001	<0.001	<0.001
		CL-4-B	12/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	15.1	14.1	<0.0001	<0.0001	<0.001	<0.001
		CL-5-B	12/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	15.1	14.3	<0.0001	<0.0001	<0.001	<0.001
			Mean	*<0.0003*	*<0.0002*	*<0.02*	*<0.03*	*<0.00002*	*<0.00002*	*15.5*	*14.1*	*<0.0001*	*<0.0001*	*<0.001*	*<0.001*
MWQSOG PAL								0.00242	0.00267					0.081	0.094

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Cobalt Dissolved (mg/L)	Cobalt Total (mg/L)	Copper Dissolved (mg/L)	Copper Total (mg/L)	Iron Dissolved (mg/L)	Iron Total (mg/L)	Lead Dissolved (mg/L)	Lead Total (mg/L)	Manganese Dissolved (mg/L)	Manganese Total (mg/L)	Magnesium Dissolved (mg/L)	Magnesium Total (mg/L)
Analytical Detection Limit				**0.0002**	**0.0002**	**0.0004**	**0.001**	**0.002**	**0.02**	**0.0001**	**0.0005**	**0.0002**	**0.0003**	**0.01**	**0.01**
Lalor Lake	LL 1	LL-1-S	8/9/2007	<0.0002	<0.0002	0.0004	<0.001	0.032	0.13	<0.0001	<0.0005	0.0129	0.0237	6.84	6.94
		LL-1-B	8/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.033	0.12	<0.0001	<0.0005	0.0138	0.0231	6.61	6.92
	LL 2	LL-2-S	8/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.032	0.10	<0.0001	<0.0005	0.0087	0.0216	6.93	6.95
		LL-4-S	8/9/2007	<0.0002	<0.0002	0.0004	<0.001	0.037	0.12	0.0001	<0.0005	0.0150	0.0231	7.06	6.90
		LL-5-S	8/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.034	0.12	<0.0001	<0.0005	0.0119	0.0221	7.09	6.89
			Mean	*<0.0002*	*<0.0002*	*<0.0004*	*<0.001*	*0.034*	*0.11*	*<0.0001*	*<0.0005*	*0.0119*	*0.0223*	*7.03*	*6.91*
		LL-2-B	8/9/2007	<0.0002	<0.0002	0.0005	<0.001	0.033	0.11	<0.0001	<0.0005	0.0173	0.0217	6.73	6.91
	LL 3	LL-3-S	8/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.034	0.11	<0.0001	<0.0005	0.0130	0.0207	7.07	6.89
Maw Lake	ML 1	ML-1-S	9/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.066	0.09	<0.0001	<0.0005	0.0010	0.0179	5.01	5.16
	ML 2	ML-2-S	9/9/2007	<0.0002	<0.0002	0.0010	<0.001	0.036	0.12	0.0002	<0.0005	0.0014	0.0187	5.09	5.11
	ML 3	ML-3-S	9/9/2007	<0.0002	<0.0002	0.0004	<0.001	0.036	0.11	<0.0001	<0.0005	0.0013	0.0230	5.05	5.26
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	<0.0002	<0.0002	0.0007	<0.001	0.041	0.11	<0.0001	<0.0005	0.0029	0.0196	6.23	6.41
Varnson Lake	VL 1	VL-1-S	10/9/2007	<0.0002	<0.0002	<0.0004	0.003	0.017	0.07	<0.0001	<0.0005	0.0005	0.0112	2.48	4.44
	VL 2	VL-2-S	10/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.014	0.06	<0.0001	<0.0005	0.0004	0.0118	4.57	4.34
	VL 3	VL-3-S	10/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.016	0.06	0.0002	<0.0005	0.0006	0.0101	4.92	4.47
Cook Lake	CL 1	CL-1-S	12/9/2007	<0.0002	<0.0002	0.0006	<0.001	<0.002	0.09	0.0001	<0.0005	0.0129	0.0294	6.09	5.94
		CL-1-B	12/9/2007	<0.0002	<0.0002	0.0006	<0.001	0.003	0.08	<0.0001	<0.0005	0.0074	0.0295	6.07	6.02
	CL 2	CL-2-S	12/9/2007	<0.0002	<0.0002	0.0010	<0.001	0.003	0.09	0.0002	<0.0005	0.0171	0.0311	6.13	5.69
		CL-2-B	12/9/2007	<0.0002	<0.0002	0.0007	<0.001	0.004	0.09	0.0001	<0.0005	0.0065	0.0316	6.00	5.74
	CL 3	CL-3-S	12/9/2007	<0.0002	<0.0002	0.0006	<0.001	0.002	0.08	<0.0001	<0.0005	0.0094	0.0285	6.42	5.40
		CL-3-B	12/9/2007	<0.0002	<0.0002	0.0005	<0.001	0.003	0.10	<0.0001	<0.0005	0.0053	0.0292	6.12	5.44
		CL-4-B	12/9/2007	<0.0002	<0.0002	0.0005	<0.001	<0.002	0.10	<0.0001	<0.0005	0.0047	0.0288	5.87	5.59
		CL-5-B	12/9/2007	<0.0002	<0.0002	0.0006	<0.001	<0.002	0.10	<0.0001	<0.0005	0.0079	0.0292	5.83	5.63
			Mean	*<0.0002*	*<0.0002*	*0.0005*	*<0.001*	*<0.002*	*0.10*	*<0.0001*	*<0.0005*	*0.0060*	*0.0291*	*5.94*	*5.55*
MWQSOG PAL						0.0098	0.010		0.3	0.0028	0.0036				

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Mercury Dissolved (mg/L)	Mercury Total (mg/L)	Molybdenum Dissolved (mg/L)	Molybdenum Total (mg/L)	Nickel Dissolved (mg/L)	Nickel Total (mg/L)	Potassium Dissolved (mg/L)	Potassium Total (mg/L)	Rubidium Dissolved (mg/L)	Rubidium Total (mg/L)	Selenium Dissolved (mg/L)	Selenium Total (mg/L)
Analytical Detection Limit				**0.00005**	**0.00005**	**0.0001**	**0.0002**	**0.0002**	**0.002**	**0.05**	**0.1**	**0.0002**	**0.0002**	**0.001**	**0.001**
Lalor Lake	LL 1	LL-1-S	8/9/2007	<0.00005	<0.00005	0.0001	0.0007	0.0004	<0.002	1.66	2.0	0.0017	0.0018	<0.001	<0.001
		LL-1-B	8/9/2007	<0.00005	<0.00005	<0.0001	0.0002	0.0004	<0.002	1.64	2.1	0.0016	0.0016	<0.001	<0.001
	LL 2	LL-2-S	8/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0008	<0.002	1.71	2.0	0.0017	0.0016	<0.001	<0.001
		LL-4-S	8/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0012	<0.002	1.74	2.0	0.0017	0.0016	<0.001	<0.001
		LL-5-S	8/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0022	<0.002	1.75	1.9	0.0017	0.0015	<0.001	<0.001
			Mean	*<0.00005*	*<0.00005*	*<0.0001*	*<0.0002*	*0.0014*	*<0.002*	*1.73*	*2.0*	*0.0017*	*0.0016*	*<0.001*	*<0.001*
		LL-2-B	8/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0016	<0.002	1.64	2.0	0.0016	0.0016	<0.001	<0.001
	LL 3	LL-3-S	8/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0004	<0.002	1.73	2.0	0.0017	0.0016	<0.001	<0.001
Maw Lake	ML 1	ML-1-S	9/9/2007	<0.00005	<0.00005	0.0001	<0.0002	0.0009	<0.002	1.05	1.3	0.0011	0.0012	<0.001	<0.001
	ML 2	ML-2-S	9/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0017	<0.002	1.12	1.3	0.0012	0.0012	<0.001	<0.001
	ML 3	ML-3-S	9/9/2007	<0.00005	0.00005	<0.0001	<0.0002	0.0008	<0.002	1.09	1.4	0.0012	0.0011	<0.001	<0.001
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0008	<0.002	1.26	1.3	0.0013	0.0015	0.001	<0.001
Varnson Lake	VL 1	VL-1-S	10/9/2007	<0.00005	<0.00005	0.0001	<0.0002	0.0004	<0.002	0.57	1.0	0.0005	0.0009	<0.001	<0.001
	VL 2	VL-2-S	10/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	0.90	0.9	0.0009	0.0009	<0.001	<0.001
	VL 3	VL-3-S	10/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	0.93	0.9	0.0010	0.0009	<0.001	<0.001
Cook Lake	CL 1	CL-1-S	12/9/2007	<0.00005	<0.00005	0.0003	<0.0002	0.0005	<0.002	1.74	1.6	0.0014	0.0014	<0.001	<0.001
		CL-1-B	12/9/2007	<0.00005	<0.00005	0.0001	<0.0002	0.0006	<0.002	1.70	1.6	0.0013	0.0014	<0.001	<0.001
	CL 2	CL-2-S	12/9/2007	<0.00005	<0.00005	0.0002	<0.0002	0.0027	<0.002	1.77	1.6	0.0013	0.0014	<0.001	<0.001
		CL-2-B	12/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0015	<0.002	1.68	1.5	0.0013	0.0013	<0.001	<0.001
	CL 3	CL-3-S	12/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	1.82	1.5	0.0014	0.0012	<0.001	<0.001
		CL-3-B	12/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0003	<0.002	1.76	1.5	0.0013	0.0012	<0.001	<0.001
		CL-4-B	12/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0004	<0.002	1.63	1.6	0.0013	0.0013	<0.001	<0.001
		CL-5-B	12/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0004	<0.002	1.65	1.6	0.0013	0.0012	<0.001	<0.001
			Mean	*<0.00005*	*<0.00005*	*<0.0001*	*<0.0002*	*0.0004*	*<0.002*	*1.68*	*1.6*	*0.0013*	*0.0012*	*<0.001*	*<0.001*
MWQSOG PAL					0.0001		0.073	0.0568	0.057						0.001

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Silicon Dissolved (mg/L)	Silver Dissolved (mg/L)	Silver Total (mg/L)	Sodium Dissolved (mg/L)	Sodium Total (mg/L)	Strontium Dissolved (mg/L)	Strontium Total (mg/L)	Tellurium Dissolved (mg/L)	Tellurium Total (mg/L)	Tin Dissolved (mg/L)	Tin Total (mg/L)	Titanium Dissolved (mg/L)	Titanium Total (mg/L)
Analytical Detection Limit				**0.2**	**0.0001**	**0.0001**	**0.02**	**0.03**	**0.0001**	**0.0001**	**0.0005**	**0.001**	**0.0003**	**0.0006**	**0.0005**	**0.0009**
Lalor Lake	LL 1	LL-1-S	8/9/2007	<0.2	<0.0001	<0.0001	2.00	1.87	0.0280	0.0281	<0.0005	<0.001	<0.0003	0.0020	<0.0005	0.0017
		LL-1-B	8/9/2007	<0.2	<0.0001	<0.0001	1.93	1.85	0.0276	0.0274	<0.0005	<0.001	<0.0003	0.0007	<0.0005	<0.0009
	LL 2	LL-2-S	8/9/2007	<0.2	<0.0001	<0.0001	2.01	1.88	0.0285	0.0270	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
		LL-4-S	8/9/2007	<0.2	<0.0001	<0.0001	2.08	1.86	0.0295	0.0276	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
		LL-5-S	8/9/2007	<0.2	<0.0001	<0.0001	1.95	1.83	0.0286	0.0273	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
			Mean	*<0.2*	*<0.0001*	*<0.0001*	*2.01*	*1.86*	*0.0289*	*0.0273*	*<0.0005*	*<0.001*	*<0.0003*	*<0.0006*	*<0.0005*	*<0.0009*
		LL-2-B	8/9/2007	<0.2	<0.0001	<0.0001	1.93	1.85	0.0277	0.0274	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	LL 3	LL-3-S	8/9/2007	<0.2	<0.0001	<0.0001	2.06	1.85	0.0290	0.0273	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
Maw Lake	ML 1	ML-1-S	9/9/2007	0.3	<0.0001	<0.0001	1.55	1.49	0.0238	0.0237	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	ML 2	ML-2-S	9/9/2007	0.3	<0.0001	<0.0001	1.56	1.48	0.0247	0.0236	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	ML 3	ML-3-S	9/9/2007	0.3	<0.0001	<0.0001	1.57	1.49	0.0246	0.0239	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	2.9	<0.0001	<0.0001	1.89	1.89	0.0277	0.0290	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
Varnson Lake	VL 1	VL-1-S	10/9/2007	0.4	<0.0001	<0.0001	0.91	1.82	0.0134	0.0249	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	VL 2	VL-2-S	10/9/2007	0.7	<0.0001	<0.0001	1.73	1.66	0.0250	0.0250	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	VL 3	VL-3-S	10/9/2007	0.9	<0.0001	<0.0001	1.77	1.71	0.0285	0.0259	<0.0005	<0.001	<0.0003	<0.0006	0.0007	<0.0009
Cook Lake	CL 1	CL-1-S	12/9/2007	0.6	<0.0001	<0.0001	2.14	2.26	0.0291	0.0299	0.0006	<0.001	0.0008	0.0010	<0.0005	<0.0009
		CL-1-B	12/9/2007	0.6	<0.0001	<0.0001	2.13	2.32	0.0292	0.0294	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
	CL 2	CL-2-S	12/9/2007	0.5	<0.0001	<0.0001	2.23	2.07	0.0295	0.0278	<0.0005	<0.001	0.0006	<0.0006	<0.0005	0.0014
		CL-2-B	12/9/2007	0.5	<0.0001	<0.0001	2.11	2.04	0.0287	0.0286	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0015
	CL 3	CL-3-S	12/9/2007	0.5	<0.0001	<0.0001	2.31	1.87	0.0310	0.0263	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0013
		CL-3-B	12/9/2007	0.5	<0.0001	<0.0001	2.19	1.92	0.0297	0.0254	<0.0005	<0.001	<0.0003	0.0020	<0.0005	0.0018
		CL-4-B	12/9/2007	0.5	<0.0001	<0.0001	2.06	1.94	0.0286	0.0264	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0025
		CL-5-B	12/9/2007	0.5	<0.0001	<0.0001	2.04	1.95	0.0281	0.0269	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0024
			Mean	*0.5*	*<0.0001*	*<0.0001*	*2.10*	*1.94*	*0.0288*	*0.0262*	*<0.0005*	*<0.001*	*<0.0003*	*0.0009*	*<0.0005*	*0.0022*
MWQSOG PAL						0.0001										

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Thallium Dissolved (mg/L)	Thallium Total (mg/L)	Tungsten Dissolved (mg/L)	Tungsten Total (mg/L)	Uranium Dissolved (mg/L)	Uranium Total (mg/L)	Vanadium Dissolved (mg/L)	Vanadium Total (mg/L)	Zinc Dissolved (mg/L)	Zinc Total (mg/L)	Zirconium Dissolved (mg/L)	Zirconium Total (mg/L)
Analytical Detection Limit				**0.0001**	**0.0001**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.001**	**0.001**	**0.002**	**0.01**	**0.0004**	**0.0004**
Lalor Lake	LL 1	LL-1-S	8/9/2007	<0.0001	0.0002	0.0004	0.0024	<0.0001	0.0002	0.001	<0.001	<0.002	<0.01	<0.0004	0.0010
		LL-1-B	8/9/2007	<0.0001	<0.0001	<0.0002	0.0007	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	LL 2	LL-2-S	8/9/2007	<0.0001	<0.0001	<0.0002	0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
		LL-4-S	8/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
		LL-5-S	8/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
			Mean	*<0.0001*	*<0.0001*	*<0.0002*	*<0.0002*	*<0.0001*	*<0.0001*	*0.001*	*<0.001*	*<0.002*	*<0.01*	*<0.0004*	*<0.0004*
		LL-2-B	8/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	0.0002	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	LL 3	LL-3-S	8/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Maw Lake	ML 1	ML-1-S	9/9/2007	<0.0001	<0.0001	0.0003	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	ML 2	ML-2-S	9/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	ML 3	ML-3-S	9/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Unnamed Cr. 1	UC1-1	UC1-1-S	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Varnson Lake	VL 1	VL-1-S	10/9/2007	<0.0001	<0.0001	0.0003	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	VL 2	VL-2-S	10/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	VL 3	VL-3-S	10/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Cook Lake	CL 1	CL-1-S	12/9/2007	0.0002	<0.0001	0.0002	<0.0002	<0.0001	0.0001	<0.001	0.001	0.007	<0.01	<0.0004	<0.0004
		CL-1-B	12/9/2007	<0.0001	<0.0001	0.0002	<0.0002	<0.0001	<0.0001	<0.001	0.001	0.002	<0.01	<0.0004	<0.0004
	CL 2	CL-2-S	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
		CL-2-B	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	0.002	<0.01	<0.0004	<0.0004
	CL 3	CL-3-S	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	0.005	<0.01	<0.0004	<0.0004
		CL-3-B	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
		CL-4-B	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
		CL-5-B	12/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
			Mean	*<0.0001*	*<0.0001*	*<0.0002*	*<0.0002*	*<0.0001*	*<0.0001*	*<0.001*	*<0.001*	*<0.002*	*<0.01*	*<0.0004*	*<0.0004*
MWQSOG PAL					0.0008							0.129	0.06-0.13		

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Hardness as $CaCO_3$ (mg/L)	Aluminum Dissolved (mg/L)	Aluminum Total (mg/L)	Antimony Dissolved (mg/L)	Antimony Total (mg/L)	Arsenic Dissolved (mg/L)	Arsenic Total (mg/L)	Barium Dissolved (mg/L)	Barium Total (mg/L)	Beryllium Dissolved (mg/L)	Beryllium Total (mg/L)
Analytical Detection Limit				**0.3**	**0.002**	**0.005**	**0.001**	**0.001**	**0.0005**	**0.0005**	**0.0003**	**0.0003**	**0.001**	**0.001**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	49.7	0.030	0.055	<0.001	<0.001	<0.0005	<0.0005	0.0117	0.0114	<0.001	<0.001
Squall Lake	SL 1	SL-1-S	13/9/2007	46.3	0.025	0.111	<0.001	<0.001	0.0008	0.0009	0.0075	0.0077	<0.001	<0.001
	SL 2	SL-2-S	13/9/2007	48.7	0.029	0.097	<0.001	<0.001	0.0008	0.0009	0.0080	0.0093	<0.001	<0.001
	SL 3	SL-3-S	13/9/2007	49.2	0.027	0.085	<0.001	<0.001	0.0008	0.0009	0.0078	0.0081	<0.001	<0.001
	SL 4	SL-4-S	13/9/2007	49.8	0.022	0.089	<0.001	<0.001	0.0008	0.0009	0.0083	0.0080	<0.001	<0.001
Snow Creek	SC 1	SC-1	15/9/2007	62.5	0.428	0.502	<0.001	0.001	0.0008	0.0009	0.0139	0.0154	<0.001	<0.001
	SC 2	SC-2	15/9/2007	69.5	0.037	0.129	<0.001	<0.001	0.0011	0.0011	0.0087	0.0106	<0.001	<0.001
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	54.6	0.016	0.057	<0.001	<0.001	0.0028	0.0031	0.0075	0.0094	<0.001	<0.001
	SLN 2	SLN-2	15/9/2007	56.4	0.015	0.075	<0.001	<0.001	0.0023	0.0026	0.0084	0.0095	<0.001	<0.001
	SLN 3	SLN-3	15/9/2007	57.9	0.051	0.094	<0.001	<0.001	0.0029	0.0031	0.0094	0.0108	<0.001	<0.001
Tern Creek	TC 1	TC-1	15/9/2007	72.0	0.010	0.017	<0.001	<0.001	0.0006	0.0005	0.0097	0.0094	<0.001	<0.001
Tern Ditch	TD 1	TD-1	15/9/2007	111.0	0.088	0.611	<0.001	<0.001	0.0066	0.0095	0.0218	0.0288	<0.001	<0.001
Tern Lake	TL 2B	TL-1-S	11/9/2007	69.0	0.005	0.015	<0.001	<0.001	<0.0005	0.0028	0.0028	0.0116	<0.001	<0.001
MWQSOG PAL						0.1			0.150					

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Bismuth Dissolved (mg/L)	Bismuth Total (mg/L)	Boron Dissolved (mg/L)	Boron Total (mg/L)	Cadmium Dissolved (mg/L)	Cadmium Total (mg/L)	Calcium Dissolved (mg/L)	Calcium Total (mg/L)	Cesium Dissolved (mg/L)	Cesium Total (mg/L)	Chromium Dissolved (mg/L)	Chromium Total (mg/L)
Analytical Detection Limit				**0.0003**	**0.0002**	**0.009**	**0.03**	**0.00002**	**0.00002**	**0.05**	**0.1**	**0.0001**	**0.0001**	**0.001**	**0.001**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	12.8	12.4	<0.0001	<0.0001	<0.001	<0.001
Squall Lake	SL 1	SL-1-S	13/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	11.3	11.3	<0.0001	<0.0001	<0.001	<0.001
	SL 2	SL-2-S	13/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	12.0	11.4	<0.0001	<0.0001	<0.001	<0.001
	SL 3	SL-3-S	13/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	12.1	11.2	<0.0001	<0.0001	<0.001	<0.001
	SL 4	SL-4-S	13/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	12.3	11.5	<0.0001	<0.0001	<0.001	<0.001
Snow Creek	SC 1	SC-1	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	14.6	13.5	<0.0001	<0.0001	<0.001	<0.001
	SC 2	SC-2	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	16.6	16.8	<0.0001	<0.0001	<0.001	<0.001
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	0.00008	13.6	13.8	<0.0001	<0.0001	<0.001	<0.001
	SLN 2	SLN-2	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	14.0	14.0	<0.0001	<0.0001	<0.001	<0.001
	SLN 3	SLN-3	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	14.4	14.7	<0.0001	<0.0001	<0.001	<0.001
Tern Creek	TC 1	TC-1	15/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	18.3	17.8	<0.0001	<0.0001	<0.001	<0.001
Tern Ditch	TD 1	TD-1	15/9/2007	<0.0003	<0.0002	0.04	0.04	<0.00002	<0.00002	30.9	31.5	<0.0001	<0.0001	<0.001	<0.001
Tern Lake	TL 2B	TL-1-S	11/9/2007	<0.0003	<0.0002	<0.02	<0.03	<0.00002	<0.00002	3.5	16.7	<0.0001	<0.0001	<0.001	<0.001
MWQSOG PAL								0.00242	0.00267					0.081	0.094

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Cobalt Dissolved (mg/L)	Cobalt Total (mg/L)	Copper Dissolved (mg/L)	Copper Total (mg/L)	Iron Dissolved (mg/L)	Iron Total (mg/L)	Lead Dissolved (mg/L)	Lead Total (mg/L)	Manganese Dissolved (mg/L)	Manganese Total (mg/L)	Magnesium Dissolved (mg/L)	Magnesium Total (mg/L)
Analytical Detection Limit				**0.0002**	**0.0002**	**0.0004**	**0.001**	**0.002**	**0.02**	**0.0001**	**0.0005**	**0.0002**	**0.0003**	**0.01**	**0.01**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	<0.0002	<0.0002	0.0018	0.003	0.023	0.06	0.0006	<0.0005	0.0062	0.0200	4.29	3.99
Squall Lake	SL 1	SL-1-S	13/9/2007	<0.0002	<0.0002	0.0009	0.001	0.046	0.22	<0.0001	<0.0005	0.0081	0.0160	4.40	4.33
	SL 2	SL-2-S	13/9/2007	<0.0002	<0.0002	0.0009	0.001	0.048	0.19	<0.0001	<0.0005	0.0015	0.0141	4.57	4.42
	SL 3	SL-3-S	13/9/2007	<0.0002	<0.0002	0.0008	0.001	0.046	0.19	0.0004	<0.0005	0.0017	0.0133	4.62	4.25
	SL 4	SL-4-S	13/9/2007	<0.0002	<0.0002	0.0007	0.001	0.043	0.17	<0.0001	<0.0005	0.0013	0.0131	4.66	4.40
Snow Creek	SC 1	SC-1	15/9/2007	<0.0002	0.0003	0.0012	0.001	0.574	0.81	0.0002	<0.0005	0.0182	0.0461	6.37	5.96
	SC 2	SC-2	15/9/2007	<0.0002	<0.0002	0.0008	<0.001	0.186	0.41	<0.0001	<0.0005	0.0018	0.0218	6.81	7.09
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	<0.0002	<0.0002	0.0012	0.001	0.105	0.30	<0.0001	<0.0005	0.0021	0.0832	5.01	5.09
	SLN 2	SLN-2	15/9/2007	<0.0002	<0.0002	0.0014	0.002	0.043	0.21	<0.0001	<0.0005	0.0011	0.0487	5.21	5.26
	SLN 3	SLN-3	15/9/2007	<0.0002	<0.0002	0.0015	0.002	0.124	0.15	<0.0001	<0.0005	0.0024	0.0322	5.32	5.44
Tern Creek	TC 1	TC-1	15/9/2007	<0.0002	<0.0002	0.0009	<0.001	0.054	0.13	0.0001	<0.0005	0.0022	0.0056	6.39	6.23
Tern Ditch	TD 1	TD-1	15/9/2007	<0.0002	0.0006	0.0010	0.002	0.678	1.73	0.0003	0.0006	0.0453	0.1450	8.27	8.48
Tern Lake	TL 2B	TL-1-S	11/9/2007	<0.0002	<0.0002	<0.0004	<0.001	0.055	0.18	0.0002	<0.0005	0.0027	0.0277	1.42	6.66
MWQSOG PAL						0.0098	0.010		0.3	0.0028	0.0036				

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Mercury Dissolved (mg/L)	Mercury Total (mg/L)	Molybdenum Dissolved (mg/L)	Molybdenum Total (mg/L)	Nickel Dissolved (mg/L)	Nickel Total (mg/L)	Potassium Dissolved (mg/L)	Potassium Total (mg/L)	Rubidium Dissolved (mg/L)	Rubidium Total (mg/L)	Selenium Dissolved (mg/L)	Selenium Total (mg/L)
Analytical Detection Limit				**0.00005**	**0.00005**	**0.0001**	**0.0002**	**0.0002**	**0.002**	**0.05**	**0.1**	**0.0002**	**0.0002**	**0.001**	**0.001**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	0.81	0.7	0.0010	0.0011	<0.001	<0.001
Squall Lake	SL 1	SL-1-S	13/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	1.13	1.1	0.0010	0.0012	<0.001	0.002
	SL 2	SL-2-S	13/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	1.21	1.1	0.0011	0.0012	<0.001	<0.001
	SL 3	SL-3-S	13/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0007	<0.002	1.26	1.1	0.0011	0.0012	<0.001	<0.001
	SL 4	SL-4-S	13/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0008	<0.002	1.27	1.1	0.0011	0.0012	<0.001	<0.001
Snow Creek	SC 1	SC-1	15/9/2007	<0.00005	<0.00005	0.0003	0.0003	0.0010	<0.002	1.29	1.3	0.0012	0.0018	<0.001	<0.001
	SC 2	SC-2	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0009	<0.002	1.23	1.4	0.0010	0.0014	<0.001	<0.001
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0007	<0.002	1.30	1.3	0.0010	0.0012	<0.001	<0.001
	SLN 2	SLN-2	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0006	<0.002	1.34	1.3	0.0010	0.0013	<0.001	<0.001
	SLN 3	SLN-3	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0008	<0.002	1.20	1.4	0.0011	0.0013	<0.001	<0.001
Tern Creek	TC 1	TC-1	15/9/2007	<0.00005	<0.00005	<0.0001	<0.0002	0.0009	<0.002	1.42	1.3	0.0011	0.0011	<0.001	<0.001
Tern Ditch	TD 1	TD-1	15/9/2007	<0.00005	<0.00005	0.0002	0.0002	0.0012	<0.002	1.04	1.2	0.0010	0.0020	<0.001	<0.001
Tern Lake	TL 2B	TL-1-S	11/9/2007	<0.00005	0.00005	<0.0001	<0.0002	<0.0002	<0.002	<0.05	0.9	0.0003	0.0014	<0.001	<0.001
MWQSOG PAL					0.0001		0.073	0.0568	0.057						0.001

Table 6. - Continued -

				Silicon	Silver		Sodium		Strontium		Tellurium		Tin		Titanium	
Sample Location	Sample ID	Lab ID	Sample Date	Dissolved (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)	Dissolved (mg/L)	Total (mg/L)
Analytical Detection Limit				**0.2**	**0.0001**	**0.0001**	**0.02**	**0.03**	**0.0001**	**0.0001**	**0.0005**	**0.001**	**0.0003**	**0.0006**	**0.0005**	**0.0009**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	0.2	<0.0001	<0.0001	1.27	1.16	0.0205	0.0195	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
Squall Lake	SL 1	SL-1-S	13/9/2007	1.7	<0.0001	<0.0001	1.83	1.78	0.0254	0.0246	<0.0005	<0.001	<0.0003	<0.0006	0.0009	0.0037
	SL 2	SL-2-S	13/9/2007	1.7	<0.0001	<0.0001	1.97	1.81	0.0261	0.0250	<0.0005	<0.001	<0.0003	<0.0006	0.0008	0.0038
	SL 3	SL-3-S	13/9/2007	1.8	<0.0001	<0.0001	1.93	1.78	0.0265	0.0243	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0029
	SL 4	SL-4-S	13/9/2007	1.8	<0.0001	<0.0001	1.99	1.84	0.0271	0.0257	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0033
Snow Creek	SC 1	SC-1	15/9/2007	3.0	<0.0001	<0.0001	3.24	2.93	0.0336	0.0316	<0.0005	<0.001	<0.0003	<0.0006	0.0062	0.0202
	SC 2	SC-2	15/9/2007	3.8	<0.0001	<0.0001	2.85	2.86	0.0374	0.0403	<0.0005	<0.001	<0.0003	<0.0006	0.0009	0.0045
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	1.3	<0.0001	<0.0001	2.19	2.33	0.0287	0.0315	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0023
	SLN 2	SLN-2	15/9/2007	1.1	<0.0001	<0.0001	2.27	2.35	0.0299	0.0310	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0029
	SLN 3	SLN-3	15/9/2007	0.6	<0.0001	<0.0001	2.40	2.59	0.0305	0.0325	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	0.0034
Tern Creek	TC 1	TC-1	15/9/2007	4.8	<0.0001	<0.0001	3.70	3.38	0.0351	0.0333	<0.0005	<0.001	<0.0003	<0.0006	<0.0005	<0.0009
Tern Ditch	TD 1	TD-1	15/9/2007	2.2	<0.0001	<0.0001	2.60	2.73	0.0674	0.0665	<0.0005	<0.001	<0.0003	<0.0006	0.0030	0.0279
Tern Lake	TL 2B	TL-1-S	11/9/2007	0.7	<0.0001	<0.0001	0.43	2.12	0.0073	0.0344	<0.0005	<0.001	<0.0003	<0.0006	0.0010	<0.0009
MWQSOG PAL						0.0001										

Table 6. - Continued -

Sample Location	Sample ID	Lab ID	Sample Date	Thallium Dissolved (mg/L)	Thallium Total (mg/L)	Tungsten Dissolved (mg/L)	Tungsten Total (mg/L)	Uranium Dissolved (mg/L)	Uranium Total (mg/L)	Vanadium Dissolved (mg/L)	Vanadium Total (mg/L)	Zinc Dissolved (mg/L)	Zinc Total (mg/L)	Zirconium Dissolved (mg/L)	Zirconium Total (mg/L)
Analytical Detection Limit				**0.0001**	**0.0001**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.001**	**0.001**	**0.002**	**0.01**	**0.0004**	**0.0004**
Unnamed Lake 1	UL1-2B	UL1-2S	13/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Squall Lake	SL 1	SL-1-S	13/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	0.005	<0.01	<0.0004	<0.0004
	SL 2	SL-2-S	13/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	0.005	0.01	<0.0004	<0.0004
	SL 3	SL-3-S	13/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	SL 4	SL-4-S	13/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	0.0009
Snow Creek	SC 1	SC-1	15/9/2007	<0.0001	<0.0001	0.0005	0.0004	0.0002	0.0002	0.001	<0.001	<0.002	<0.01	0.0007	0.0009
	SC 2	SC-2	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	0.001	<0.001	<0.002	<0.01	<0.0004	0.0006
Snow Lake Narr.	SLN 1	SLN-1	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	0.0004
	SLN 2	SLN-2	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
	SLN 3	SLN-3	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	<0.0004
Tern Creek	TC 1	TC-1	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	<0.002	<0.01	<0.0004	0.0006
Tern Ditch	TD 1	TD-1	15/9/2007	<0.0001	<0.0001	<0.0002	<0.0002	0.0001	0.0002	0.001	0.001	0.002	0.01	<0.0004	0.0007
Tern Lake	TL 2B	TL-1-S	11/9/2007	0.0001	<0.0001	<0.0002	<0.0002	<0.0001	<0.0001	<0.001	<0.001	0.002	<0.01	<0.0004	<0.0004
MWQSOG PAL					0.0008							0.129	0.06-0.13		

Table 7. Sediment quality analysis results and comparisons to Manitoba (Williamson 2002) and Ontario (Persaud et al. 1993) sediment quality guidelines. PEL = probable effect level; SQG = sediment quality guideline; LEL = lowest effect level; and SEL = severe effect level. Values in red and blue exceed the MB PEL and SQGs, respectively. Values in red and blue italics exceed the Ontario LEL and SEL guidelines, respectively.

Sample Location	Location ID	Lab ID	Sample Date	Total Metals and Minerals (µg/g d.w.)											
				Aluminum	Arsenic	Barium	Beryllium	Boron	Bismuth	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Analytical Detection Limit				**3**	**0.03**	**0.04**	**0.06**	**0.6**	**0.02**	**0.02**	**7**	**0.1**	**0.01**	**0.2**	**6**
Lalor Lake	LL-1	LL-1	8/9/2007	5,230	14.30	15.4	0.34	77.9	0.39	0.67	7,280	25.5	5.09	36.4	18,600
	LL-2	LL-2	8/9/2007	6,150	11.9	83.0	0.37	14.6	0.09	0.39	8,590	38.8	7.46	46.3	13,300
		LL-4	8/9/2007	7,060	8.68	89.0	0.41	13.9	0.06	0.33	8,620	36.9	7.36	46.3	13,500
		LL-5	8/9/2007	5,350	4.91	69.4	0.31	15.2	0.07	0.33	8,030	26.3	6.05	39.7	13,700
			Mean	*6,187*	*8.50*	*80.5*	*0.36*	*14.6*	*0.07*	*0.35*	*8,413*	*34.0*	*6.96*	*44.1*	*13,500*
	LL-3	LL-3	8/9/2007	5,540	6.73	75.6	0.29	15.0	0.11	0.35	8,480	26.1	5.70	37.6	9,680
Cook Lake	CL-1	CL-1	12/9/2007	11,400	4.19	102	0.46	8.6	0.18	0.37	5,310	34.4	9.00	33.8	17,300
	CL-2	CL-2	12/9/2007	15,000	5.57	155	0.66	12.4	0.27	0.59	7,630	49.8	12.80	47.6	*24,600*
	CL-3	CL-3	12/9/2007	10,500	3.20	94.0	0.41	7.5	0.13	0.23	5,110	32.2	7.84	22.4	17,200
Unnamed Lake 1	UL1-2B	UL1-1	15/9/2007	5,380	1.97	94.4	0.21	8.7	0.08	0.32	15,500	16.7	4.25	18.9	11,800
Maw Lake	ML-1	ML-1	9/9/2007	2,960	6.50	99.8	0.08	14.7	0.22	0.70	9,880	9.2	4.46	36.9	6,910
	ML-2	ML-2	9/9/2007	2,880	7.24	93.0	0.09	13.8	0.27	0.70	9,550	8.6	4.67	35.0	7,980
	ML-3	ML-3	9/9/2007	3,190	4.55	132	0.11	15.6	0.09	0.56	13,700	11.3	5.58	38.0	8,520
Unnamed Creek 1	UC1-1	UC1-1	15/9/2007	8,080	4.30	81.7	0.27	8.1	0.13	0.63	11,100	16.4	5.81	105.0	6,090
Varnson Lake	VL-2	VL-2	10/9/2007	5,630	3.84	69.7	0.22	9.1	0.10	0.46	10,100	17.2	7.34	18.5	9,750
Manitoba Sediment Quality Guidelines															
Guidelines					5.9					0.6		37.3		35.7	
PEL					17					3.5		90		197	
Ontario Sediment Quality Guidelines															
LEL															*20,000*
SEL															*40,000*