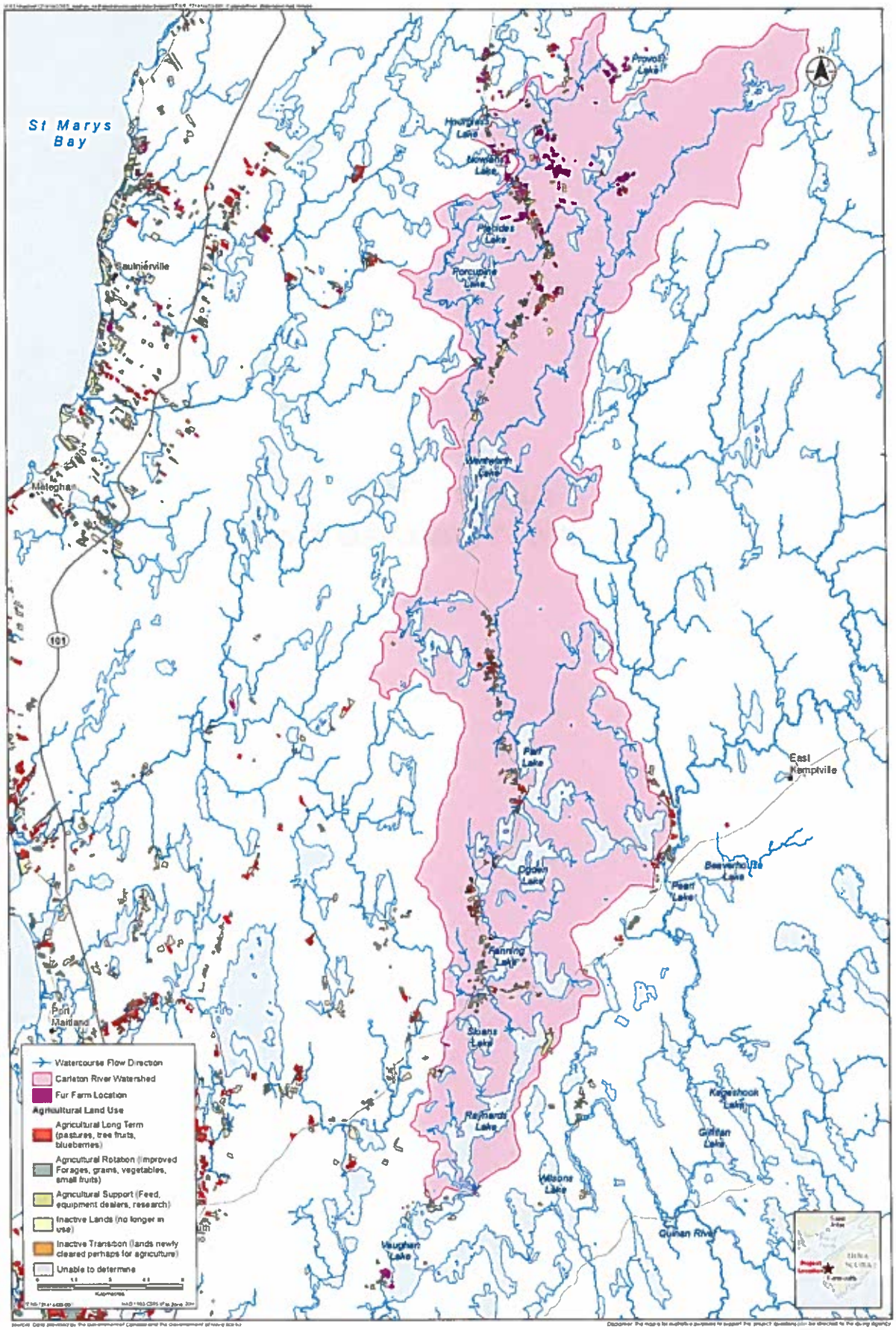
Appendix A
Lake Watershed Maps

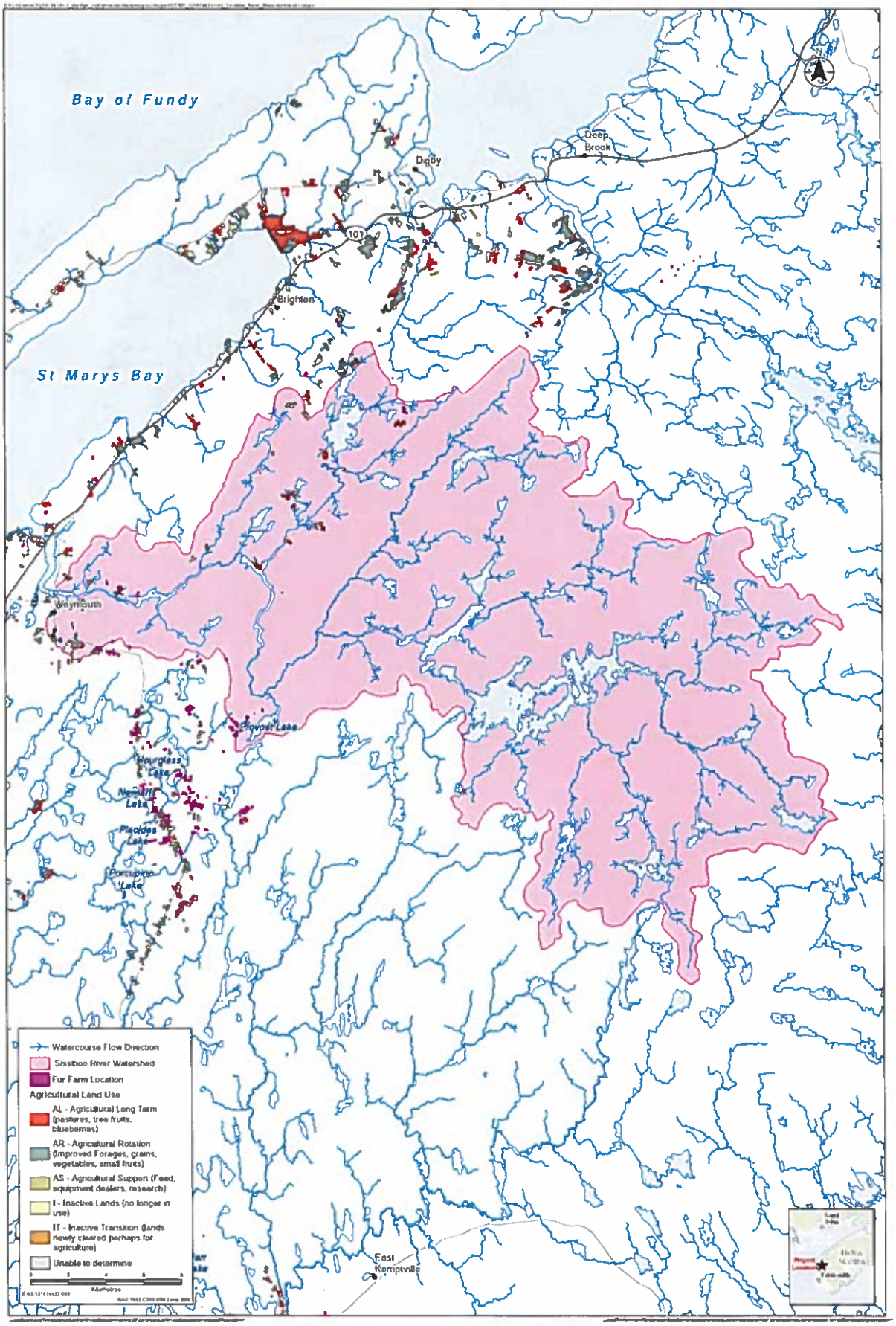
Stantec



Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

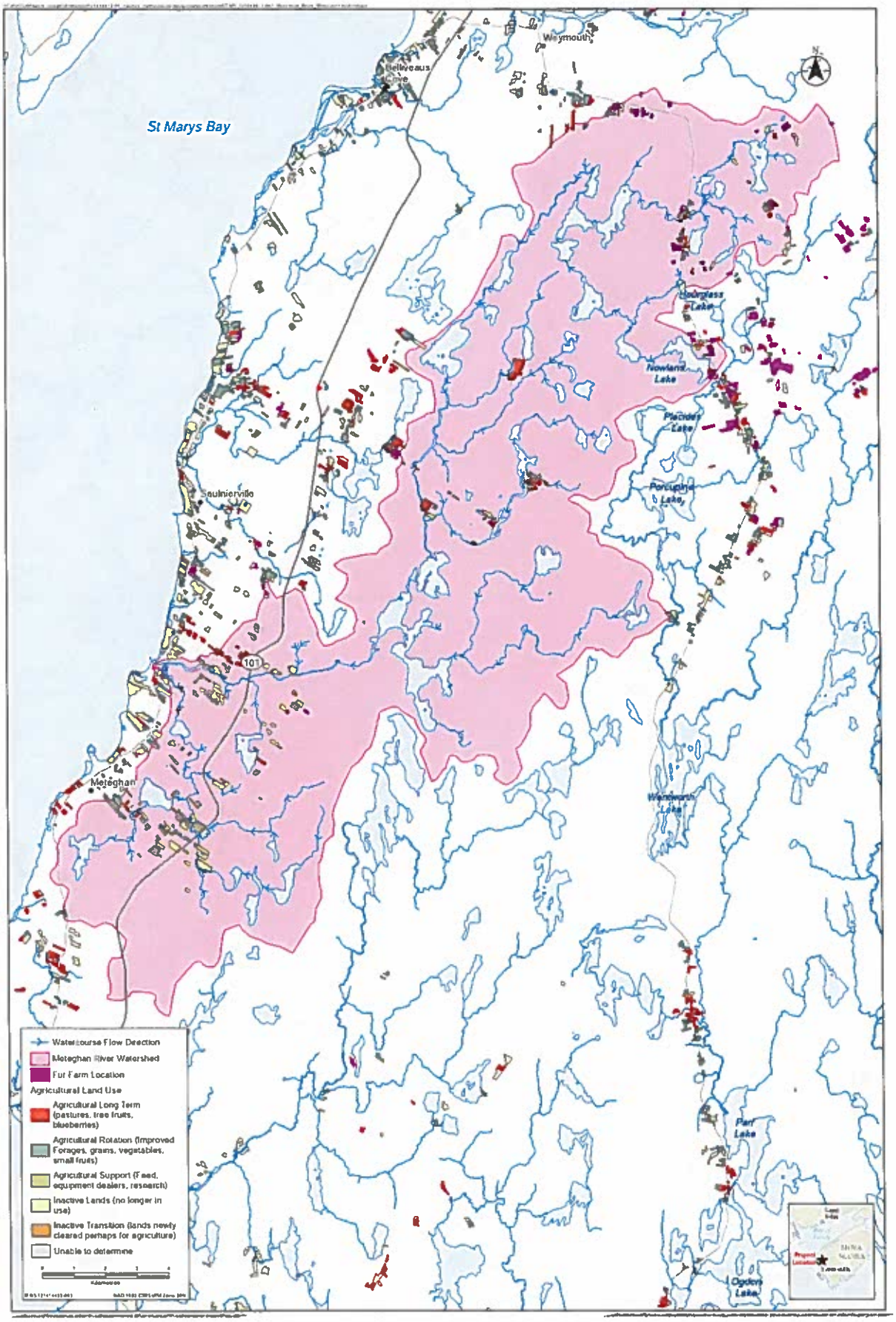
Figure A.1



Sissiboo River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

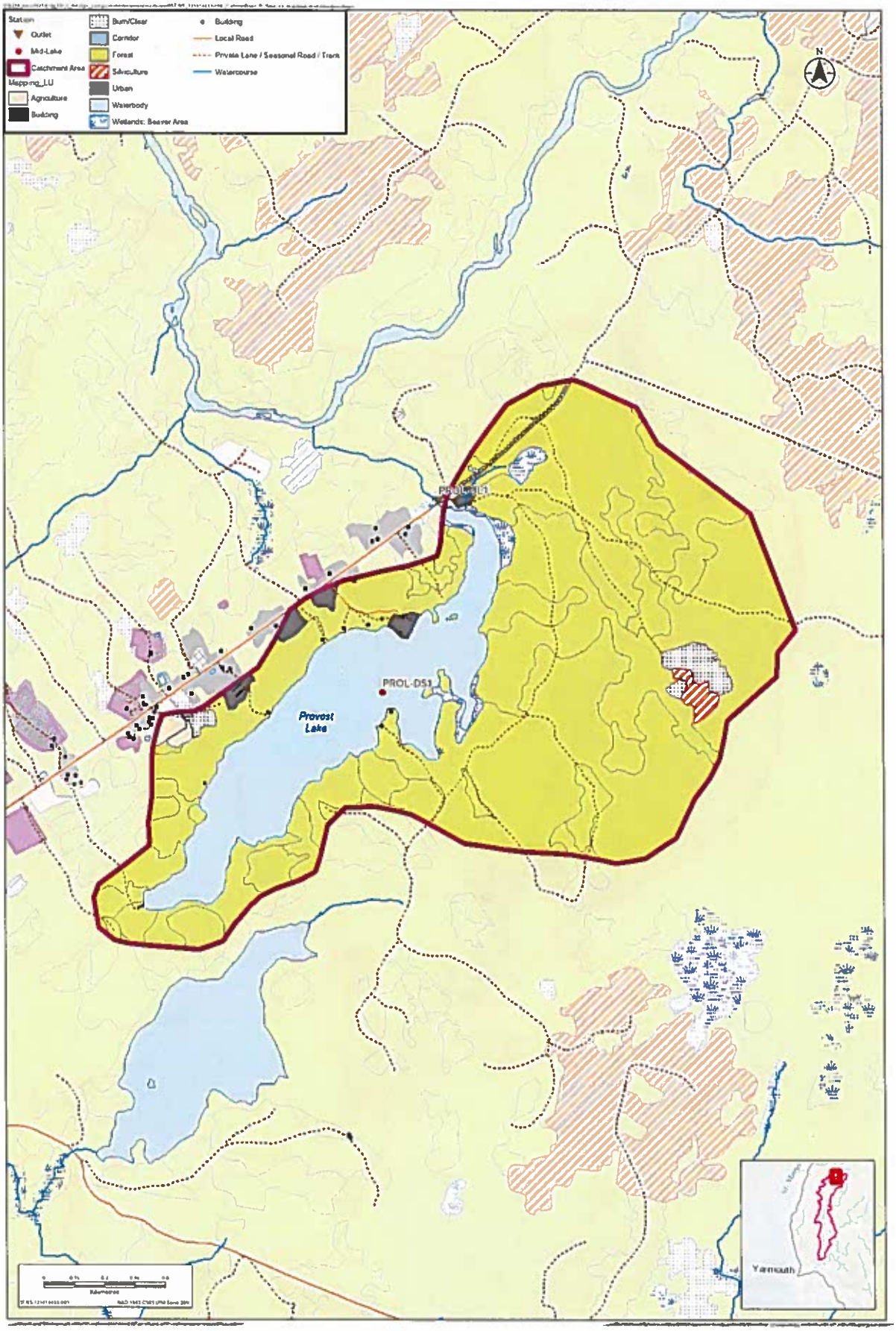
Figure A.2



Meteghan River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

Figure A.3



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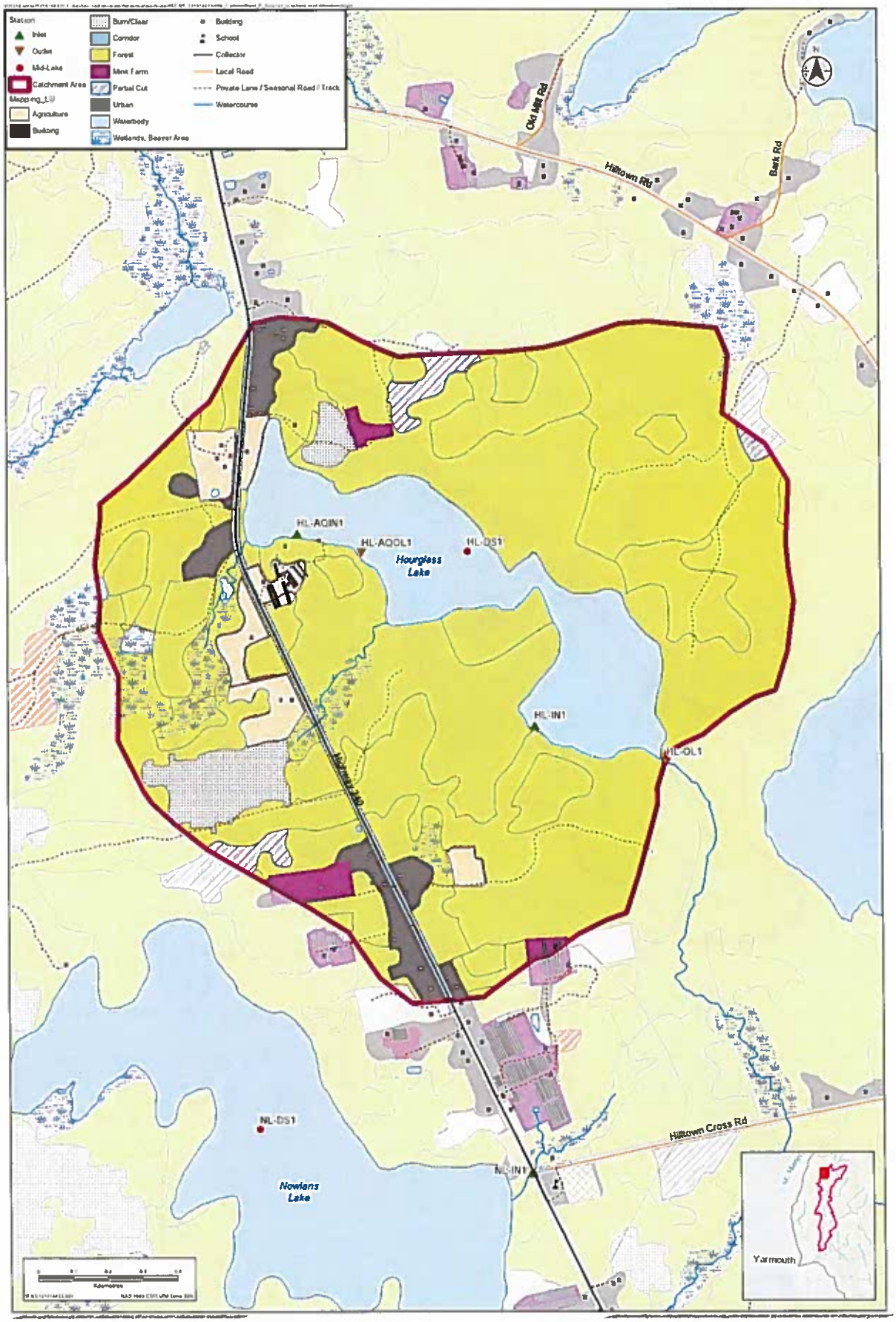
Provost Lake - Sissiboo River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.4

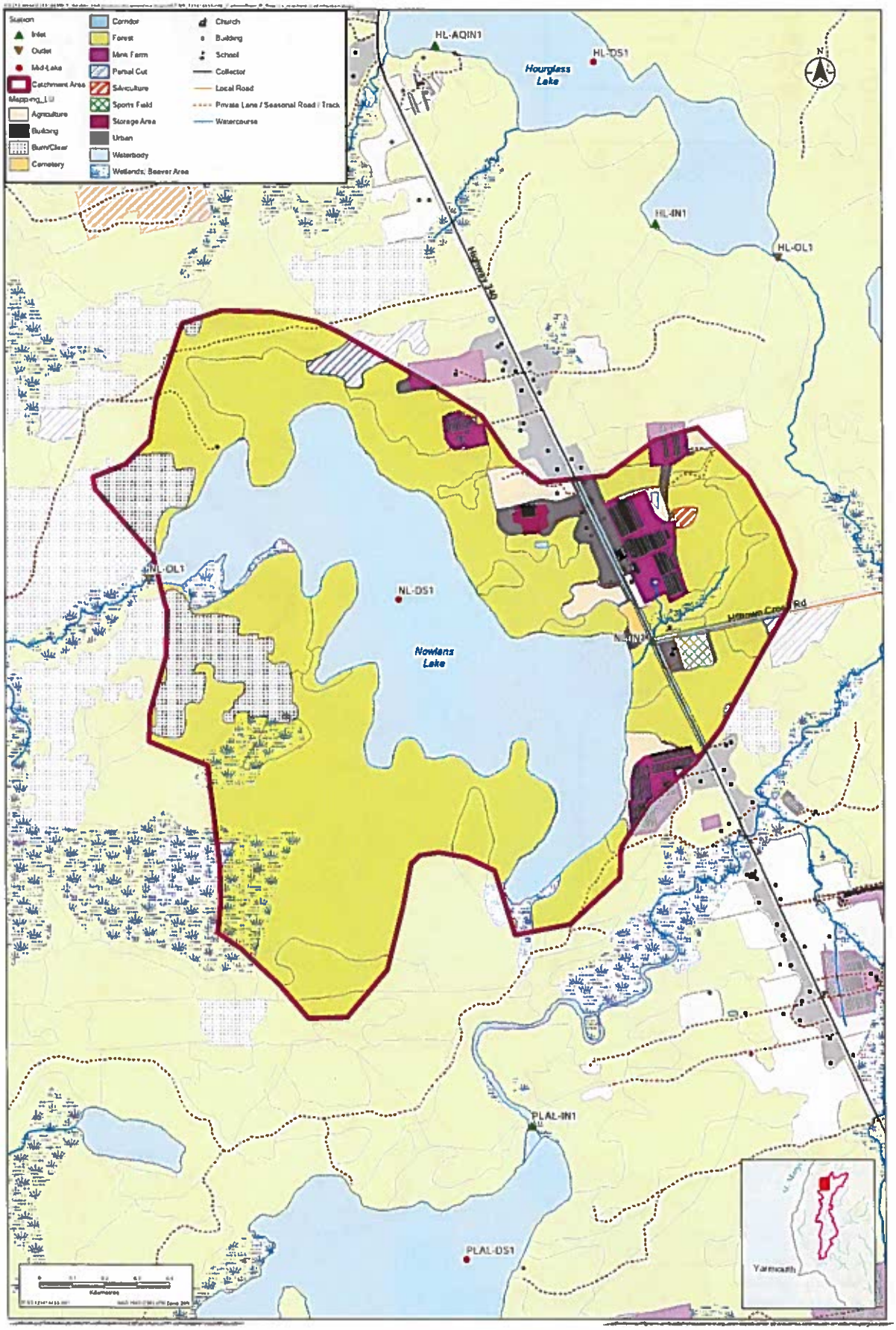


Hourglass Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

PEER REVIEW FOR CARLETON RIVER WATERSHED AREA REPORT

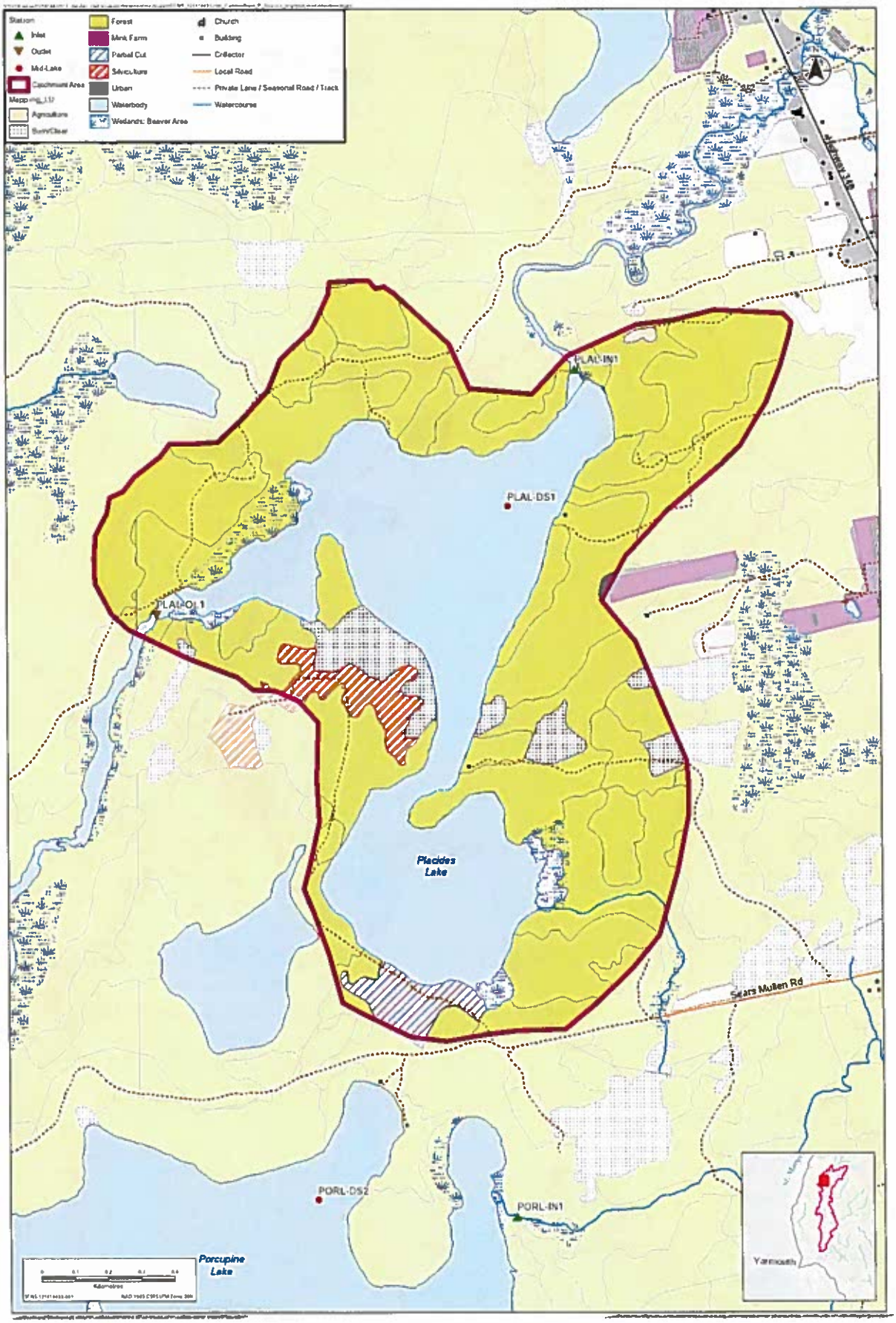
Figure A.5



Nowlans Lake - **Meteghan** River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.6

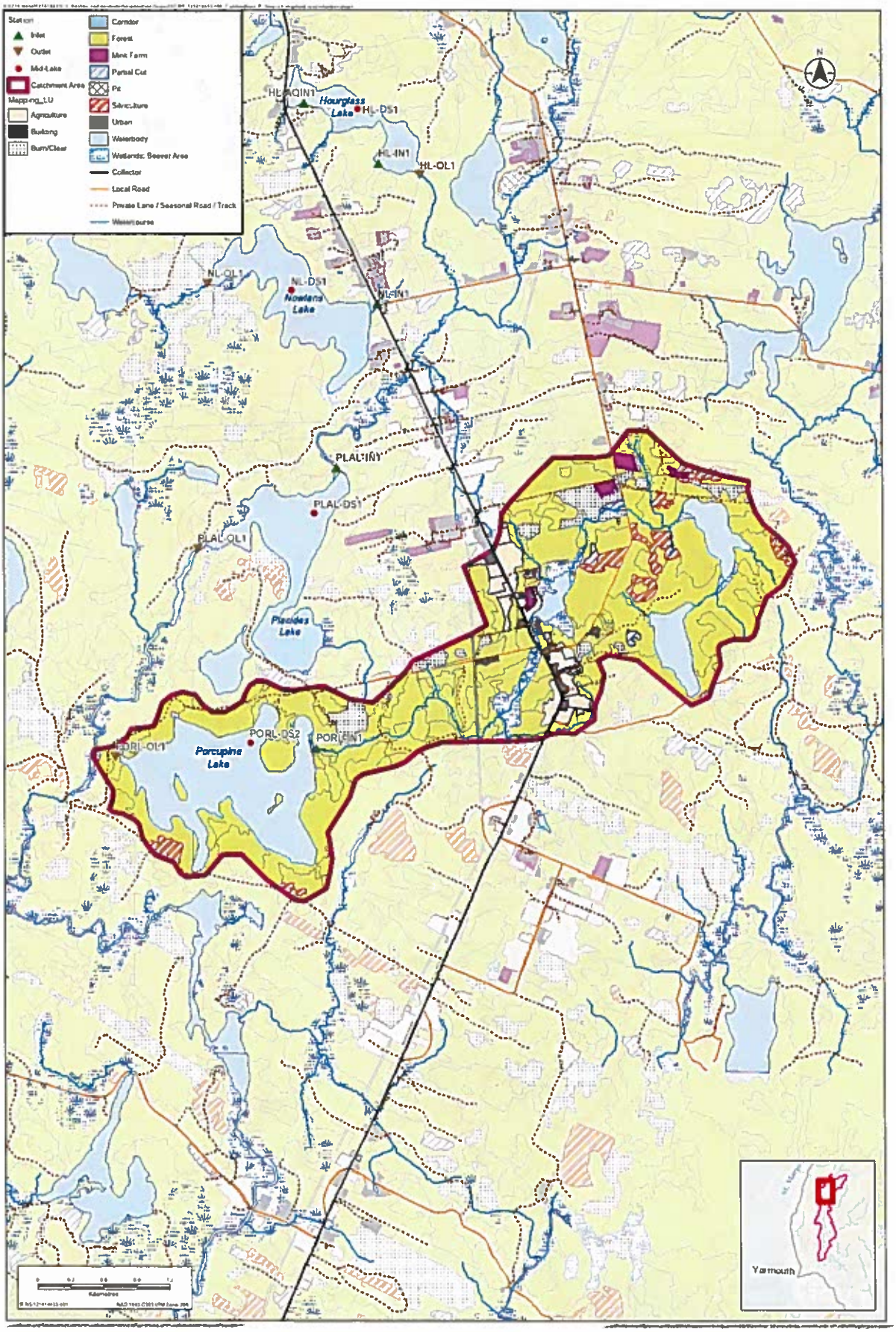
Stantec



Placides Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.7

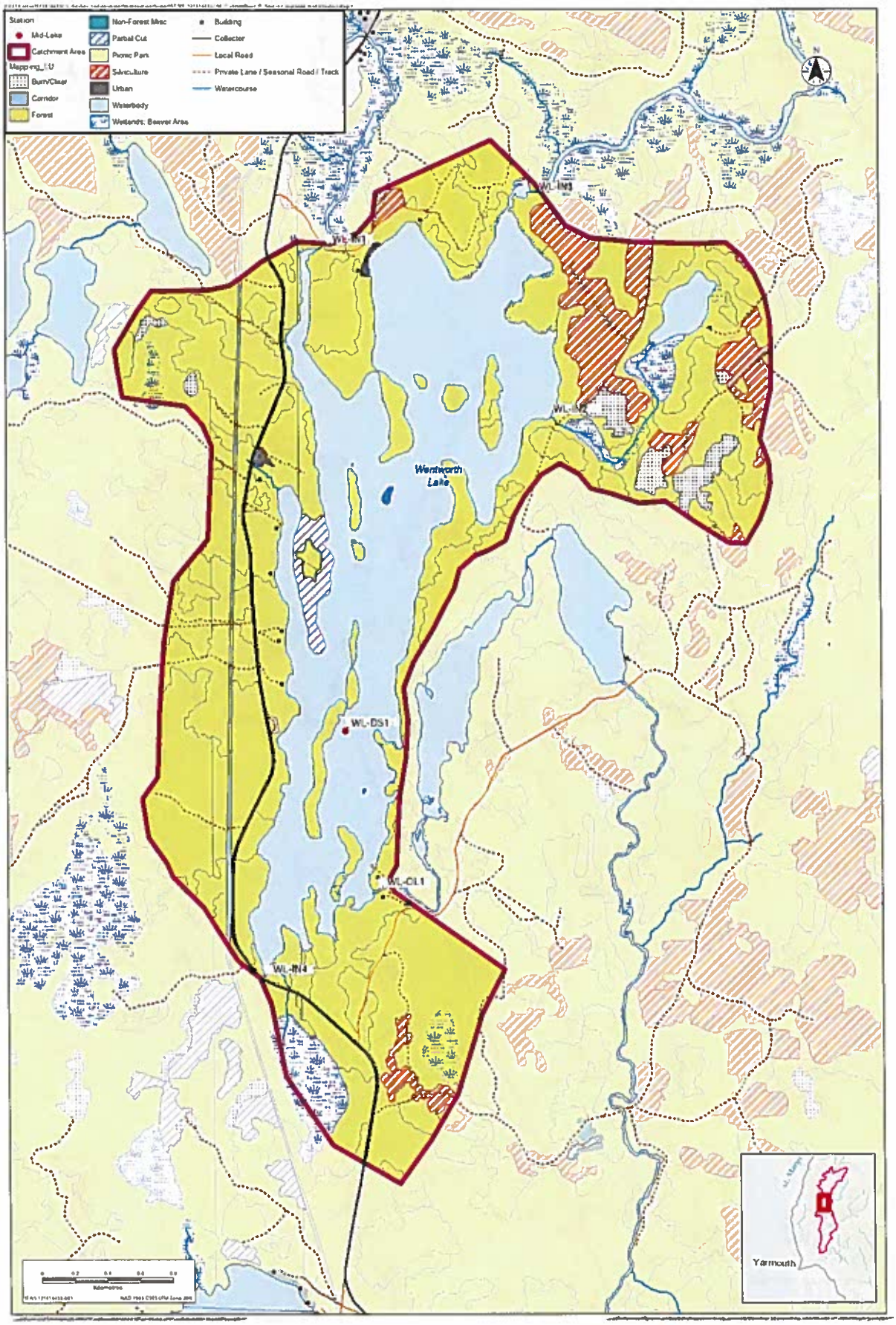
Stantec



Porcupine Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.8

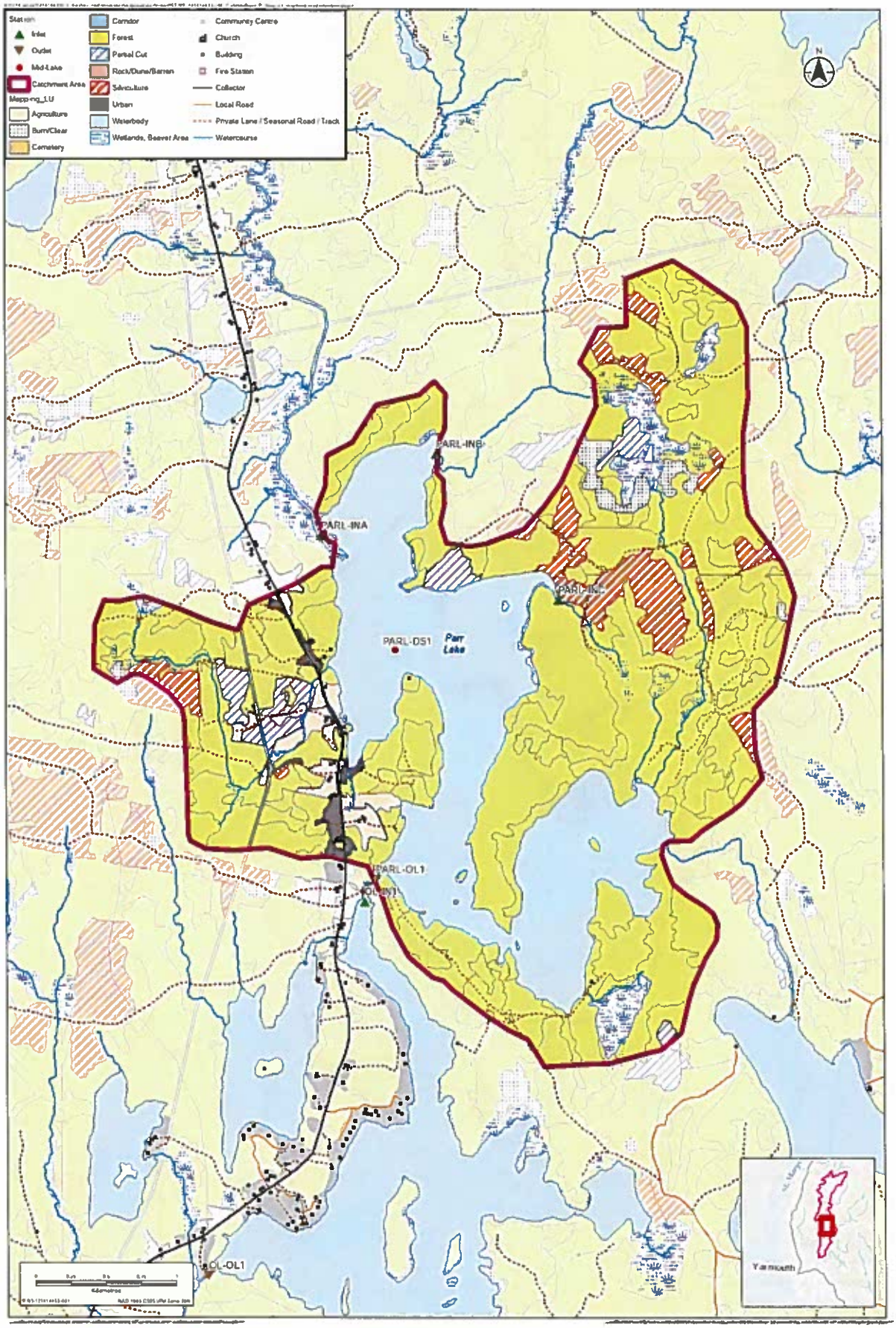
Stantec



Wentworth Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A 9

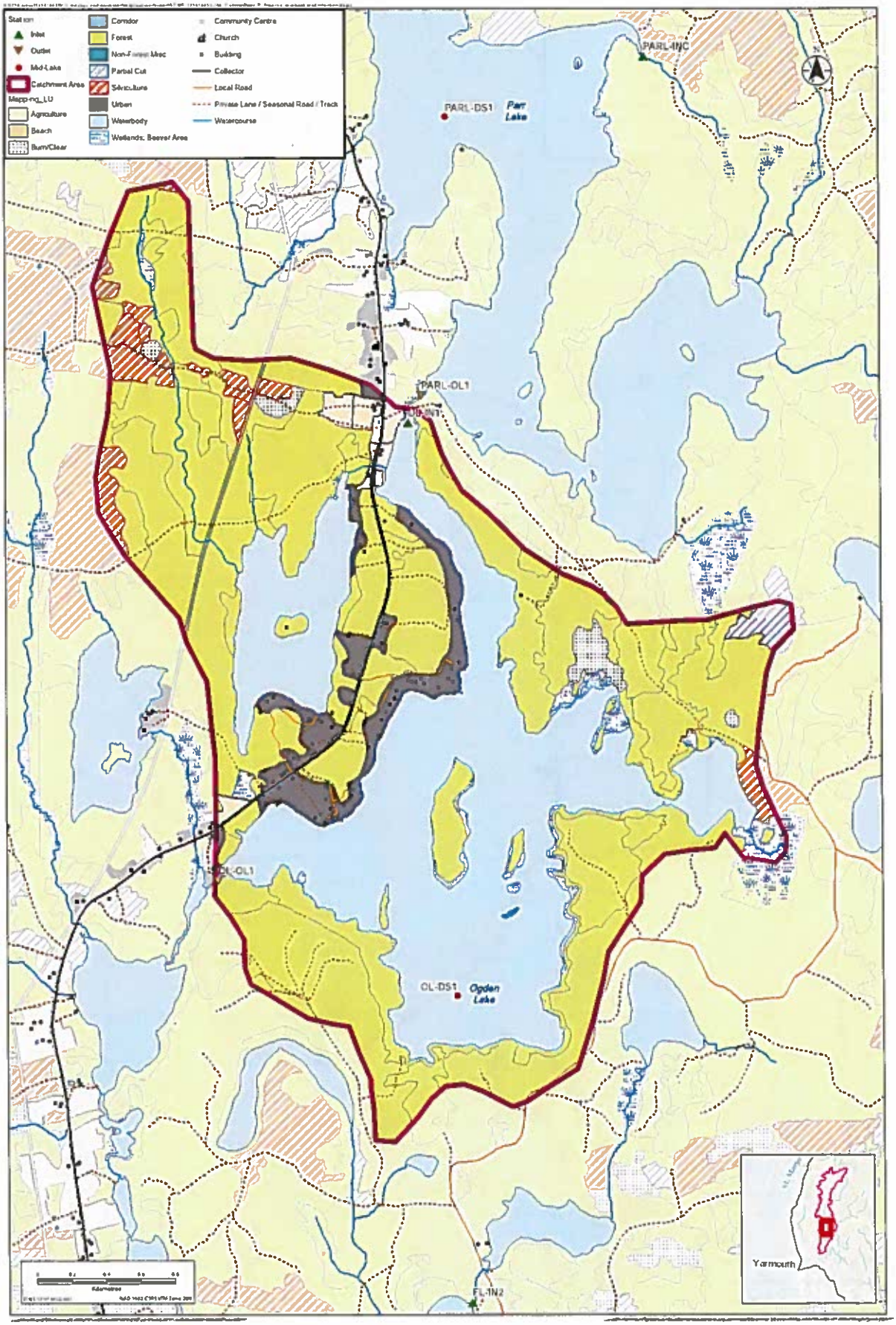
Stantec



Parr Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.10

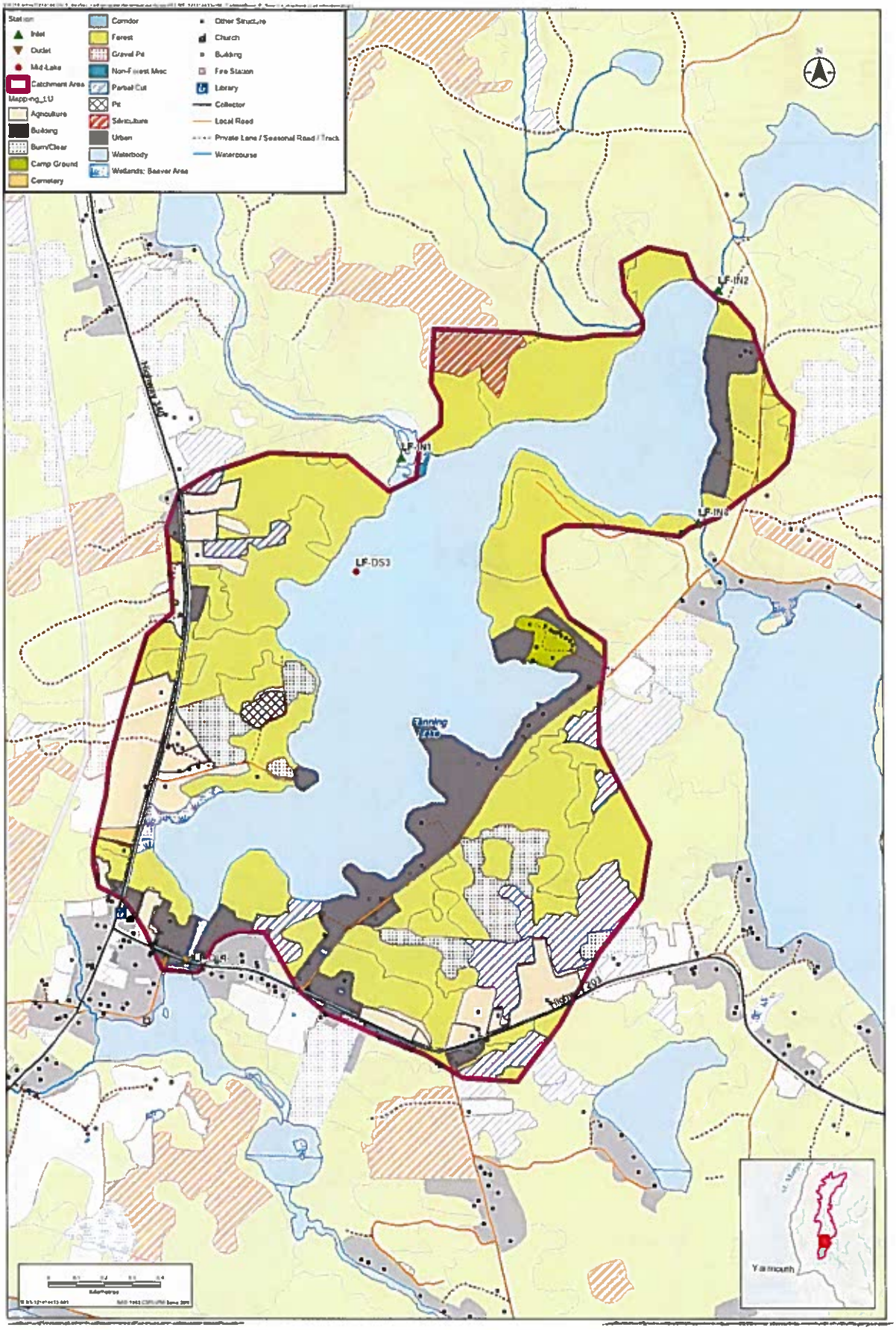
Stantec



Ogden Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.11

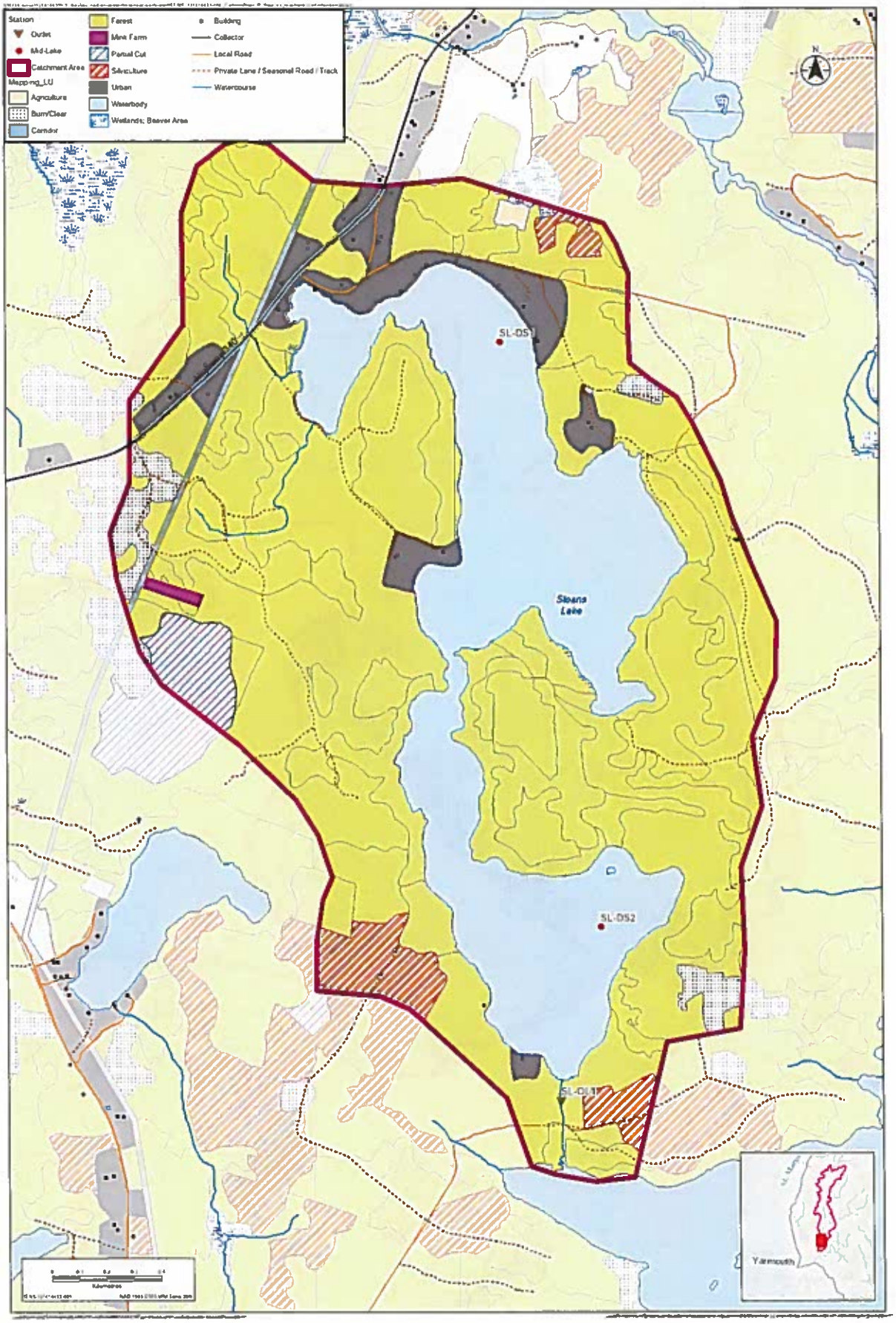
Stantec



Lake Fanning - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.12

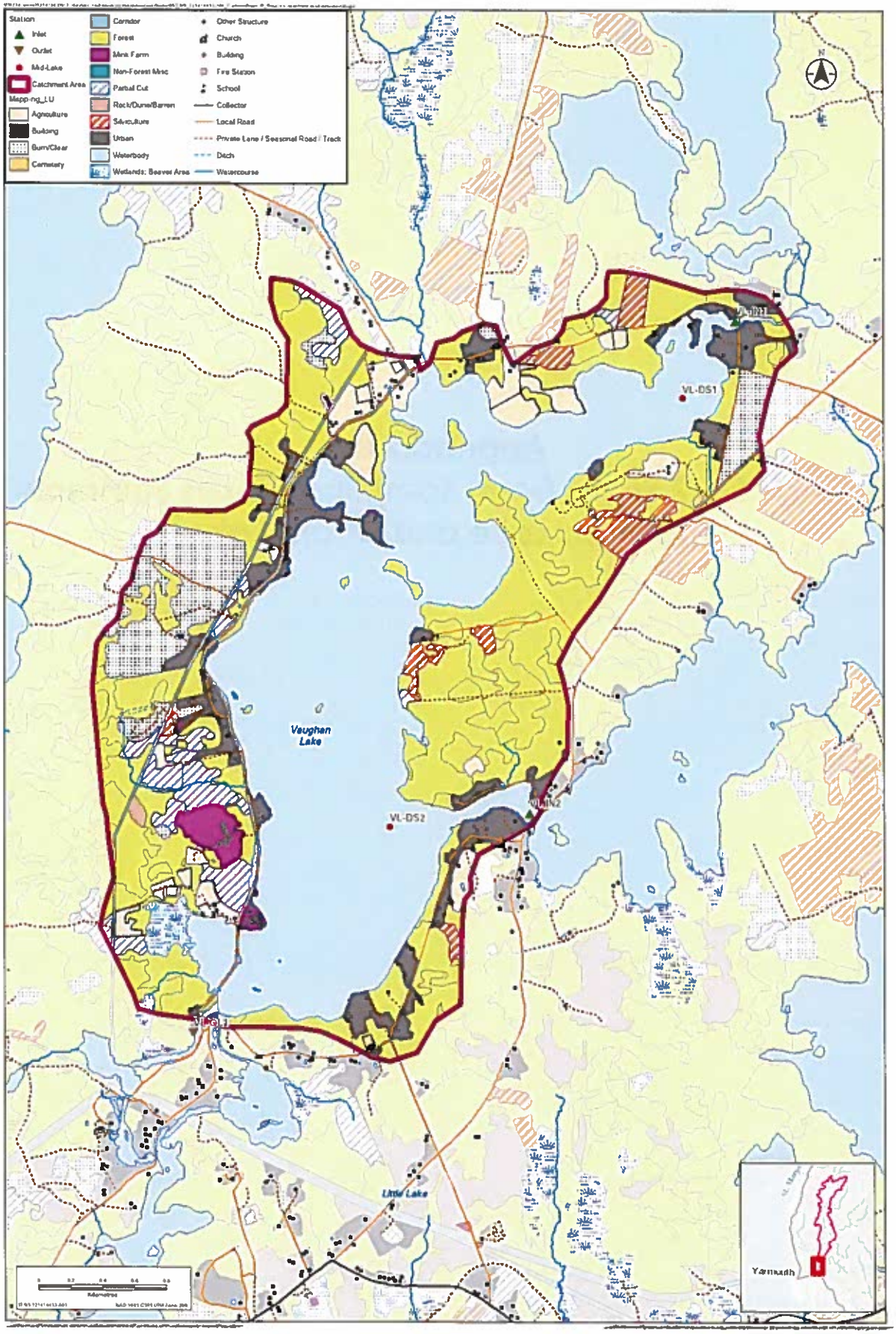
Stantec



Sloans Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

Figure A.13



Lake Vaughan - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Figure A.14

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Appendix B
May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

Stantec

Stantec Consulting Ltd.
102-40 Highfield Park Drive, Dartmouth NS B3A 0A3

July 12, 2017
File: 121414433

Attention: Mr. Brad Fulton
Carleton River Watershed Area Water Quality Monitoring Steering Committee
Municipality of the District of Yarmouth
932 Highway 1
Hebron NS B5A 5Z5

Dear Mr. Fulton,

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

BACKGROUND

Beginning in 2008, Nova Scotia Environment (NSE) has been leading an effort to monitor lake water quality in a series of lakes within the Yarmouth-Digby County area of Nova Scotia. Several lakes with the Carleton, Meteghan and Sissiboo River watersheds have shown impacts of increased phosphorous (P) loading, including blooms of blue-green algae. In 2017, the Carleton River Watershed Area Water Quality Monitoring Steering Committee (CRWAWQM SC) retained Stantec via the Municipality of the District of Yarmouth (MODY) to manage the annual monitoring program. To support the historical data collection, a stormflow sample event (Event No. 1) was undertaken by Stantec on May 15, 2017 at two lakes within two historically monitored watersheds: Nowlans Lake within the Meteghan River Watershed, and Sloans Lake within the Carleton River Watershed. These lakes were chosen for storm event sampling based on the following attributes:

- Headwater water bodies with no inflow ponds or lakes in their watersheds.
- Represent a high-P impacted water body (Nowlans Lake) and a low-P impacted water body (Sloans Lake).
- Difference in main watershed area land uses: Nowlans Lake – agriculture (mink farm), residential and forested (mixed/softwood), and Sloans Lake – residential and forested.

The intent of sampling during a storm event is to capture potential surface water impacts to the lake caused when rainfall-generated runoff flows overland and reaches a waterbody. In addition to water quality sampling, stream gauging was used to estimate flows at each sample location to allow for loading calculations of select water quality parameters, including P.

MONITORING METHODOLOGY

For the sample event, grab water samples, in-situ water quality measurements and water velocities are obtained at previously identified surface tributary (ST) sample locations. ST sample locations include lake inlets and outlets, as well as concentrated flow inflow locations that have

been identified prior to the monitoring event by watershed CRWAWQM volunteers and Stantec staff (Attachment A). Three of the investigated monitoring sites are part of the historic annual monitoring program (NL-IN1, NL-OL1, SL-OL1). Suitability and confirmation of the concentrated flow monitoring sites are conducted during the site visit via presence of observed watercourse flows.

Stantec has defined a storm event as a rainfall with a minimum forecasted amount of 20 mm and greater than 80% probability of precipitation for the Environment Canada meteorological station at the Yarmouth Airport (Climate ID: 8206495) during the spring period (April/May). The trigger precipitation amount has been chosen based on Stantec's experience with storm event monitoring in Nova Scotia and likelihood of concentrated flow occurring.

Grab samples are collected in laboratory-supplied bottles at the ST locations at a depth of approximately 0.25 m below the water surface. If bottles contain preservatives, samples are decanted into these bottles from a clean, unpreserved bottle. In-situ water quality measurements are taken using a calibrated hand-held water quality meter with probes capable of measuring dissolved oxygen (DO), conductivity, temperature and pH. In-situ measurements are recorded directly from the meter interface to a field book. Water velocities are measured with a flow meter with a detection range of 0.03 to 7.5 m/s. The watercourse/concentrated flow transects are divided into a number of manageable subsections and the velocity is measured at the depth that corresponds to 60% of the total depth when the total water depth is less than 0.5 m. The measured velocity at each section and corresponding water depths are used to estimate the total watercourse flow using the Mid-Section/Velocity Area Method recommended and used by the Water Survey of Canada (Environment Canada 1999).

WATER QUALITY SAMPLE ANALYSIS

Grab water samples are packaged in coolers and shipped to the QEII Health Sciences Centre in Halifax, NS for laboratory analyses. Grab samples are analyzed for the following suite of parameters:

- pH
- Turbidity
- Colour
- Total Nitrogen (TN)
- Nitrate + Nitrite (as N)
- Ammonia (as N)
- Ortho P
- Total P (TP)
- Chlorophyll a (CHL A; non-acidified, fluorometric method; analysis sub-contracted to ALS)

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

RESULTS AND DISCUSSION

The monitoring event occurred on May 15, 2017 based on Stantec staff availability and the Yarmouth airport weather forecast. According to daily climate data from the Yarmouth Airport meterological station, 31.8 mm and 5.1 mm of rainfall was received on May 14 and 15, respectively. The monitoring event visited a number of sites at Sloans and Nowlans Lakes where concentrated flows from overland runoff were potentially expected as part of the sample event. Flow were only identified at the historic inflow monitoring location for Nowlans Lake (NL-IN1) and the outlets for both lakes (NL-OL1; SL-OL1).

Water Quality

Water quality results from both grab sample analyses and field parameter measurements are presented in the Attachment B table. Canadian Council of Ministers of the Environment (CCME) Guidelines for the Protection of Freshwater Aquatic Life (FAL) were used for comparison purposes, where possible. Results met the CCME FAL guideline range for pH. The CCME FAL guideline value for ammonia is variable and depends on the field measured temperature and pH at the monitoring site. For the measured field parameters, results met the site-specific CCME FAL guideline values for ammonia. Comparison to guideline values for nitrate and nitrate was not possible as the laboratory reported results do not separate the parameter concentrations. Narratives are provided by CCME FAL on guideline values for temperature and turbidity; however, these pertain to exceedances or increases from baseline concentration values and are not applicable to this specific dataset. Dissolved oxygen concentrations are based on the sustaining of aquatic life at various life stages and temperatures. Dissolved oxygen concentrations in Nowlans Lake at the time of measurement did not meet the minimum guideline value for cold-water biota at early life stages. Dissolved oxygen concentrations in both Lakes met the minimum guideline value for cold-water biota at other life stages.

In comparison with the Nowlans Lake sample locations (NL-IN1 and NL-OL1); dissolved oxygen, specific conductivity, temperature and pH were higher at the Sloans Lake sample location (SL-OL1). Laboratory parameter values were lower at the SL-OL1 location. With the exception of CHL A and turbidity, other laboratory parameters were highest at the inlet location of Nowlans Lake (NL-IN1) as compared to the outlet sample location (NL-OL1). The decreased concentrations potentially indicate dilution, aquatic vegetation uptake, chemical precipitation, and/or deposition of suspended materials occurring within the Nowlans Lake system.

Trophic status criteria used in the evaluation of nutrient-loading with a freshwater body are provided in Table 1. Using CHL A and TP concentrations, each sample location was classified. Based on TP concentrations, NL-IN1 and NL-OL1 are classified as hyper-eutrophic and SL-OL1 as ultra-oligotrophic. Based on CHL A concentrations, NL-IN1 and NL-OL1 are classified as meso-eutrophic and SL-OL1 as oligotrophic. Differences in trophic status in Nowlans Lake, as determined by TP and CHL A concentrations, may be attributed to a high degree of colour in the lake (97.1 TCU at NL-IN1 and 36.3 TCU at NL-OL1). Colour can suppress vegetation and algae growth

due to a reduction in light penetration through the water column. This lowers CHL A concentrations despite the presence of sufficient nutrients to promote algae and aquatic vegetation growth.

Table 1. Trophic Status Indicators for Freshwater Bodies

Trophic Status	Total Phosphorous (mg/L)[1]	Chlorophyll a (mg/L)[2]
Ultra-oligotrophic	<0.004	< 0.001
Oligotrophic	0.004 – 0.01	<0.0025
Mesotrophic	0.01 – 0.02	-
Meso-eutrophic	0.02 – 0.035	≥ 0.0025 - < 0.008
Eutrophic	0.035 – 0.10	≥0.008 – <0.025
Hyper-eutrophic	>0.1	>0.025

[1]CCME total P trigger ranges for Canadian Lakes and Rivers (CCME 2004)
[2]OECD trophic status values (Vollenweider and Kerekes 1982)

Flow

Estimated stream flow at each monitoring site are given in Table 2.

Table 2. Stream Flow at Each Sample Location (as measured on May 15, 2017)

Sample Site	NL-IN1	NL-OL1	SL-OL1
Flow (m^3/s)	0.002	0.013	0.229

Mid-Section/Velocity-area method calculations are provided in Attachment C. It is noted that a conservative minimum velocity value of 0.01 m/s was used at NL-OL1 as the in-field measured site velocity recorded was 0 m/s, while visual surface flows were identified by the field staff.

Mass Loading

Surface water runoff associated mass loading rates from storm events are helpful in assessing the potential impacts of a specific water quality parameters of concern within a water body. The majority of non-point source nutrient (N and P) loading to surface water bodies is from surface water runoff during precipitation events. Loading rates provide an estimate of the mass of a parameter entering or exiting a water body over a specific period of time and can inform storage rates within a water body. Mass loading calculations can be completed using empirical surface runoff loading rates or through measured flow and concentration values. Using the estimated

stream flows and parameter concentrations obtained from grab sample analysis, individual daily loading rates were calculated at each ST sample location for a select suite of analyzed parameters, particularly focusing on nutrients (Table 3).

Table 3. Calculated May 15, 2017 Monitoring Site Mass Loading Rates

Parameter	Units	NL-IN1	NL-OL1	SL-OL1
Flow	m^3/sec	0.002	0.013	0.229
Total Nitrogen	g/day	138.2	460.5	2,572.1
Nitrate + Nitrate (N)	g/day	38.0	11.2	197.9
Ammonia (N)	g/day	15.6	11.2	197.9
Ortho Phosphorous	g/day	559.9	247.1	59.4
Total Phosphorous	g/day	563.3	272.9	59.4
Chlorophyll a	g/day	0.814	5.3	23.3

Note that input loading rates for the Table 3 parameters to Nowlans Lake may be higher as NL-IN1 rates account for stream inflow at the ST sample location only. Parameters of concern loading via non-concentrated flow surface runoff to Nowlans and Sloans Lakes directly into the lake are not captured by this monitoring event. Empirical watershed modeling can be used to estimate these potential contributions and assess the storage/removal within the water body itself. The Nowlans input load rates for Ortho P and TP are higher than what is observed at the lake outlet, which is expected due to the retention time of the water body providing reductions via deposition, aquatic vegetation uptake and chemical precipitation. The TP loading rate for NL-IN1 when calculated as a per ha loading rate is 15.4 g TP/ha/day. The primary land use in the contributing NL-IN1 sub-watershed is forested (64.8%) with fur farms comprising 16.0% of the land use, residential areas at 5.9% and agriculture at 3.3%. Corridors and other designated land uses (cemeteries, sports fields) make up the remaining land uses.

The NL-IN1 loading rate is associated with the precipitation event amount on May 14 and 15, 2017 of 31.8 mm and 5.1 mm, respectively. The Yarmouth airport climate normal (1981-2010) number of precipitation events per year with greater than 10 mm precipitation is 38 (Environment Canada, 2017). Based on the above daily loading rate, which would be associated with storm events greater than or equal to 10 mm, the annual TP loading rate is estimated to be 585 g TP/ha/year. When compared to the literature annual empirical loading rates for specific land use areas (Brylinksy 2004) the observed loads are greater than the loading rate for forested areas (35 to 50 g TP/ha/year), but less than the rates for residential areas (1,860 g TP/ha/year), roadways (3,500 g TP/ha/year) and agricultural areas (1,500 to 3,500 g TP/ha/year). The total annual TP loading rate for the NL-IN1 sub-basin would be expected to be higher than the 585 g TP/ha/year estimate above when incorporating TP loads from for smaller precipitation events, baseflow TP loads and potential increased loading rates for intense storm events.

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

Based on the estimated water body outlet loading rates, TP export loading is 272.9 g/day at Nowlans Lake, as compared to 59.4 g/day at Sloans Lake. Alternatively, total nitrogen export loading is much higher at Sloans Lake (2,275.1 g/day) in comparison with Nowlans Lake (460.5 g/day).

CLOSURE

The above monitoring storm event results will be incorporated into the 2017 annual monitoring report for the CRWQM program. Additional analysis, and discussion related to the August 2017 watershed monitoring results will also be included in the annual report.

Regards,

STANTEC CONSULTING LTD.

DRAFT

Maylia Parker, P.Geo.
Project Manager
Phone: (902) 468-7777
maylia.parker@stantec.com

Attachment: Attachment A - Watershed Figures
Attachment B - Water Quality Results Tables
Attachment C - Velocity-Area Method Calculations
Attachment D - Site Photos

c. Janeen McGuigan, Andrew Sinclair, Don Carey (Stantec); Darrell Taylor (Nova Scotia Environment); John Sollows (TREPA)

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

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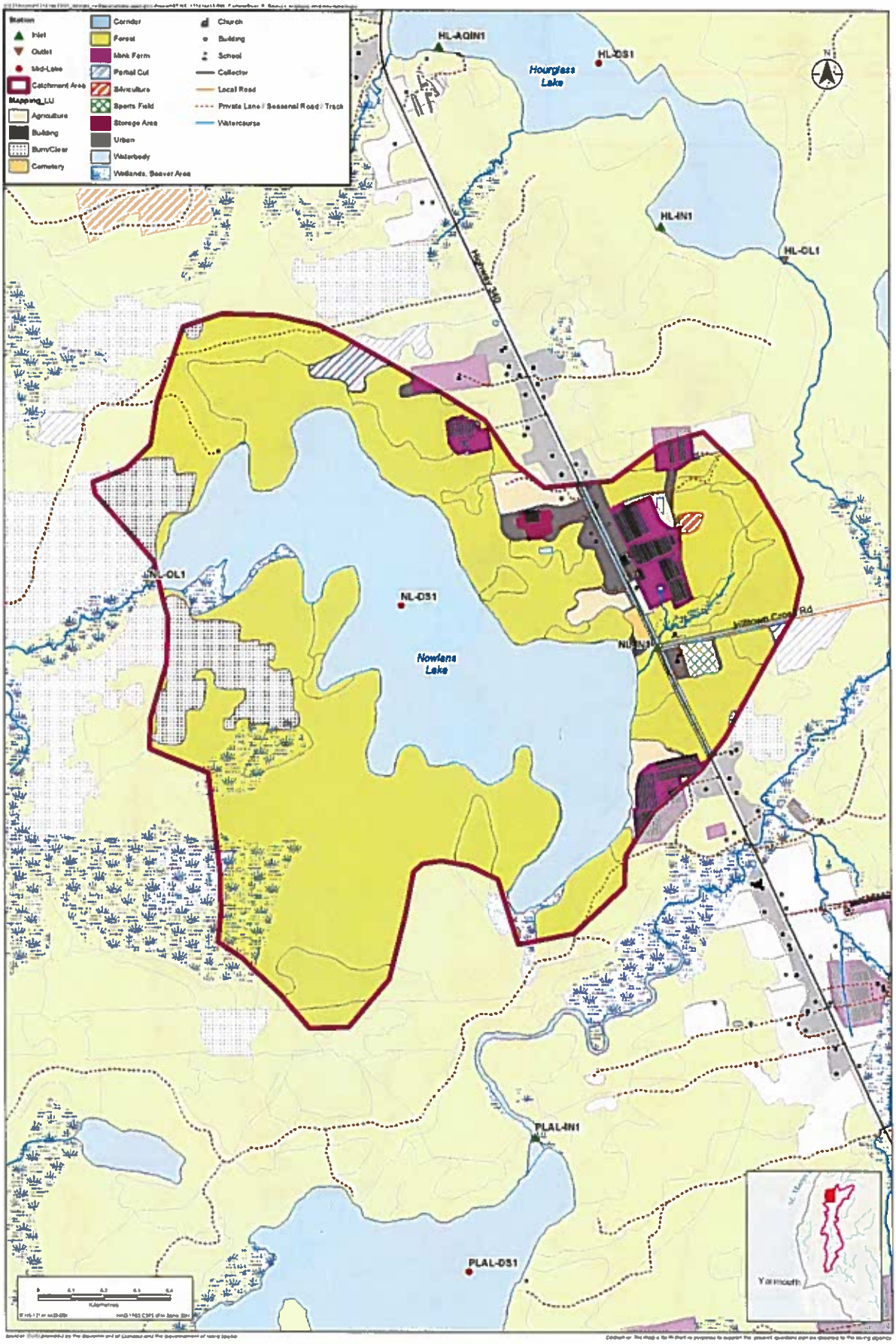
July 12, 2017
Mr. Brad Fulton

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

Attachment A - Watershed Figures

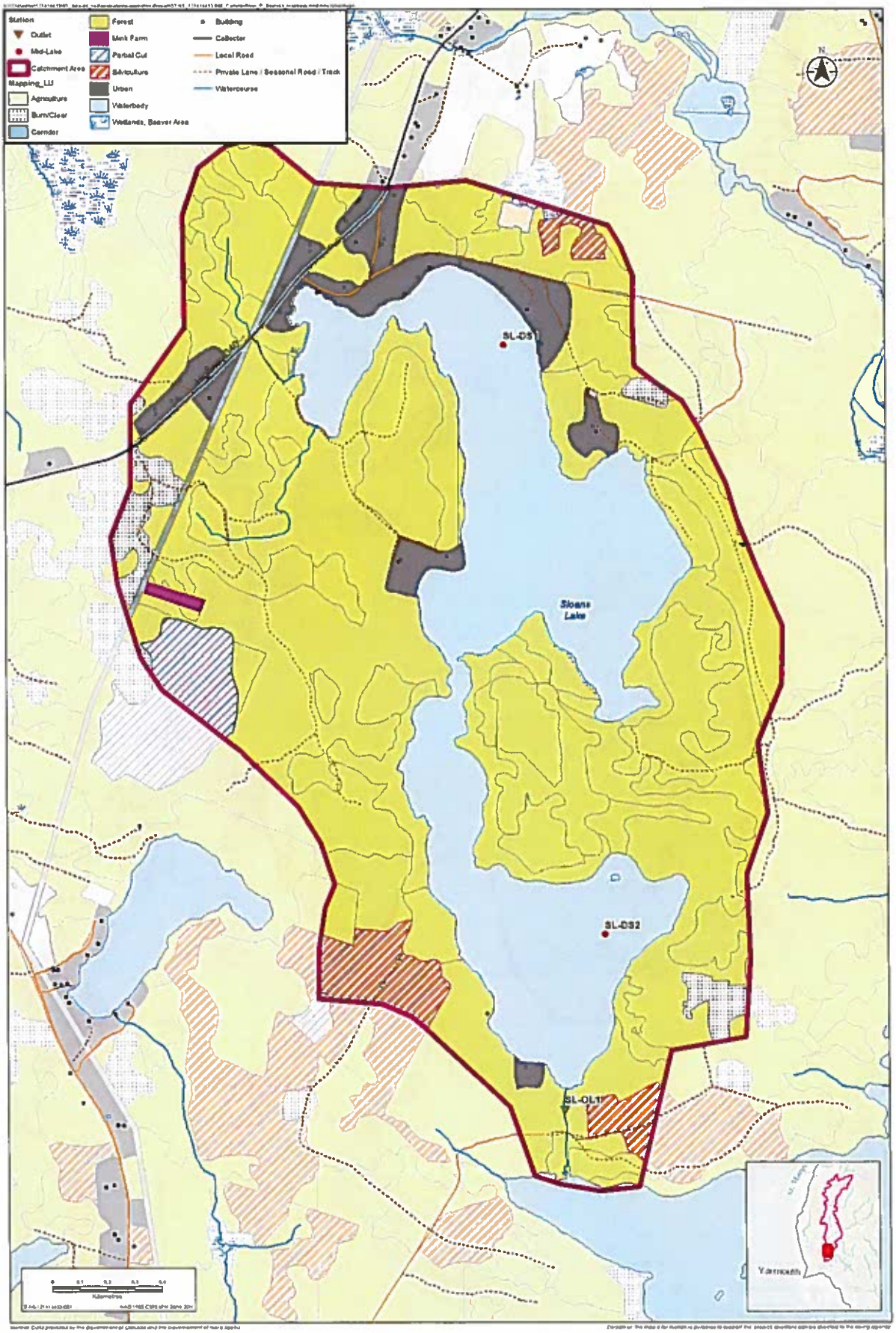


Nowlans Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

PEER REVIEW FOR CARLETON RIVER WATERSHED AREA REPORT

Figure 1



Sloans Lake - Carleton River Watershed, Digby and Yarmouth Counties, Nova Scotia

Stantec

PEER REVIEW FOR CARLETON RIVER WATERSHED AREA REPORT

Figure 1

Attachment B - Water Quality Results Tables

Attachment B Table: Laboratory and Field Parameters for May 15, 2017 Storm Sample Event

Parameter	Unit	CCME Guidelines for the Protection of Freshwater Aquatic Life		NL-IN1	NL-OL1	SL-OL1
		Short Term	Long Term	15-May-17	15-May-17	15-May-17
Laboratory Parameters						
pH (laboratory)	unitless	-	-	7.1	7.1	7.0
Turbidity	NTU	variable[1]	variable[1]	1.41	2.27	0.47
Colour	TCU	-	-	97.1	36.3	16.4
Total Nitrogen	mg/L	-	-	0.80	0.41	0.13
Nitrate + Nitrate (N)	mg/L	- /124	0.06 / 3	0.22	<0.01	<0.01
Ammonia (N)	mg/L	-	variable[2]	0.09	<0.01	<0.01
Ortho Phosphorous	mg/L	-	-	3.240	0.220	0.003
Total Phosphorous	mg/L	-	narrative[3]	3.260	0.243	0.003
Chlorophyll a	mg/L	-	-	0.00471	0.00475	0.00118
Field Parameters						
Parameter	**Unit**	**CCME Guidelines for the Protection of Freshwater Aquatic Life**		**NL-IN1**	**NL-OL1**	**SL-OL1**
		Short Term	**Long Term**	**15-May-17**	**15-May-17**	**15-May-17**
pH (field)	unitless	-	6.5 - 9.0	6.65	7.46	7.46
Dissolved Oxygen	mg/L	-	variable[4]	6.7	8.7	9.8
Dissolved Oxygen	%	-	-	62	83	94
Specific Conductivity	mS/cm[A]	-	-	0.1736	0.066	1.5
Salinity	ppt	-	-	0.1	0.0	0.0
Temperature	°C	-	narrative[1]	11.6	13.1	13.6

bold = CCME FAL Short Term guideline exceedance; underline = CCME FAL Long Term guideline exceedance

[1]based on maximum acceptable increases from baseline concentrations

[2]based on in-situ temperature and pH values

[3]Based on trophic status trigger ranges

[4]Based on lowest acceptable concentrations for aquatic life stages: cold-water biota: 9.5 mg/L (early life), 6.5 mg/L (other) and warm-water biota: 6.0 mg/L (early life), 5.5 mg/L (other)

Reference: May 15, 2017 Storm Event Sampling Results Summary – Nowlans Lake and Sloans Lake

Attachment C - Velocity-Area Method Calculations

Attachment C: Stream Flow Calculations

SL-OL1	**Date Measured:**	**15-May-17**
Width	2.3 m	
x value	0.77 m	
Depth (m)	Velocity (m/s)	Flow (m^3/s)
0.20	0.36	0.055
0.27	0.41	0.085
0.29	0.40	0.089
	Total Flow	0.229 m^3/s

NL-IN1	**Date Measured:**	**15-May-17**
Width	2.2 m	
x value	0.73 m	
Depth (m)	Velocity (m/s)	Flow (m^3/s)
0.07	0.00	0.000
0.20	0.01	0.002
0.05	0.00	0.000
	Total Flow	0.002 m^3/s

NL-OL1	**Date Measured:**	**15-May-17**
Width	4.267 m	
x value	1.42 m	
Depth (m)	Velocity (m/s)	Flow (m^3/s)
0.75	0.00	0.000
0.88	0.02	0.013
0.70	0.00	0.000
	Total Flow	0.013 m^3/s

Attachment D - Site Photos

Figure 1. Sloans Lake Boat Launch (May 15, 2017)

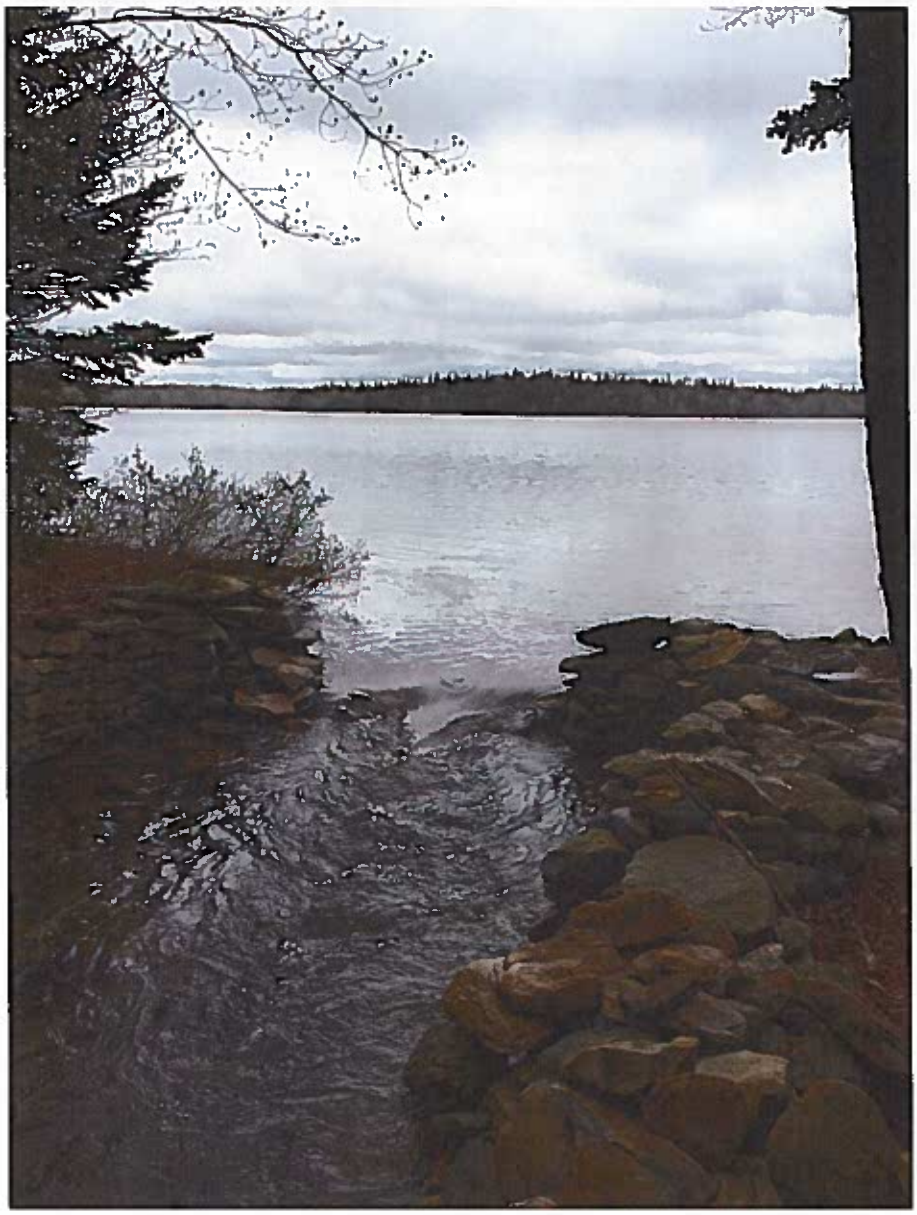


Figure 2. Sloans Lake Outlet (May 15, 2017)

Figure 3. Nowlans Lake Boat Launch (May 15, 2017)

Appendix C
Sample Sites and Coordinates

Stantec

Table C.1 Sample Location IDs and Associated Coordinates

Waterbody of Interest	Inlet	Northing	Easting	Outlet	Northing	Easting	Mid-Lake	Northing	Easting
Carleton River Watershed									
Hourglass Lake	HL-IN1	266695.47	4911977.97	HL-OL1	267073.2	4911872.3	HL-DS1	266505.05	4912478.74
	HL-AQIN1	266695.47	4911977.97	-	-	-	-	-	-
	HL-AQIN2	266016.2	4912529.57	-	-	-	-	-	-
Placides Lake	PLAL-IN1	266303.31	4909188.01	PLAL-OL1	265038.49	4908448.35	PLAL-DS1	266098.26	4908775.89
Porcupine Lake	PORL-IN1	266112.24	4906625.86	PORL-OL1	264279.42	4906548.44	PORL-DS2	265513.48	4906678.51
Wentworth Lake	WL-IN1	265150.02	4899263.51	WL-OL1	265452.97	4895321.62	WL-DS1	265258	4896291
	WL-IN2	266542.91	4898218.84	-	-	-	-	-	-
	WL-IN3	266462.82	4899583.88	-	-	-	-	-	-
	WL-IN4	264749.56	4894792.32	-	-	-	-	-	-
Parr Lake	PARL-INA	266839.08	4886884.49	PARL-OL1	267218.08	4884437.75	PARL-DS1	267362.99	4886072.23
	PARL-INB	267658.99	4887464.7	-	-	-	-	-	-
	PARL-INC	268525.6	4886424.25	-	-	-	-	-	-
Ogden Lake	OL-IN1	267141.32	4884278.2	OL-OL1	266019.32	4881607.06	OL-DS1	267409	4880935
Lake Fanning	LF-IN1	266342.34	4878532.41	LF-OL1	265563.72	4876721.29	LF-DS3	266178	4878122
	LF-IN2	267484.8	4879135.36	-	-	-	-	-	-
	LF-IN3	267410.47	4878298.07	-	-	-	-	-	-
Sloans Lake	-	-	-	SL-OL1	265352.52	4872371.42	SL-DS1	265144.89	4875167.22
	-	-	-	-	-	-	SL-DS2	265501.53	4873017.06
Vaughan Lake	VL-IN1	264628.35	4867980.05	VL-OL1	261207.43	4863485.78	VL-DS1	264294.61	4867495.09
	VL-IN2	263327.79	4864874.48	-	-	-	VL-DS2	262445.86	4864791.13
Sissaboo River Watershed									
Provost Lake	-	-	-	PROL-OL1	273092.25	4915855.16	PROL-DS1	272811.74	4914905.2
Meteghan River Watershed									
Nowlans Lake	NL-IN1	266683.6	4910688.7	NL-OL1	265131.4	4910876.2	NL-DS1	265898.6	4910815.67

Appendix D
Data Tables

Stantec

Table D.1 Laboratory Results from August, 2017 sampling event

Watershed	Lake	Date	Station ID	Easting (UTM)	Northing (UTM)	Depth (m)	Chlorophyll (µg/L)	Color (TCU)	Turbidity (NTU)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Laboratory pH	Pheo-phytin (µg/L)	Lab Accession #
Stellako	Provost	Aug 22/17	PROv-OS1	273211.74	6[illegible]4906.30	0.25	4.18	34.3	[illegible].35	0.006	0.004	<0.01	0.01	0.79	6.6	4.16	[illegible] COMP (0.25m & 4.0m)
Stellako	Provost	Aug 22/17	PROv-OS1 BOTTOM	273211.74	6[illegible]4906.30	4.6	-	34.1	[illegible].49	0.014	0.008	<0.01	<0.01	0.36	6.6	-	[illegible]-007293 (4.0m)
Stellako	Provost	Aug 22/17	PROv-OL1	273093.26	6[illegible]3855.16	0.25	1.73	133.8	0.61	0.029	0.009	<0.01	0.03	0.49	6.3	2.57	EVA-17-007294
Carleton	Hourglass	Aug 24/17	HLvA-QIN1 FPL Outlet	366695.47	6[illegible]19777.97	0.25	44.00	133.0	2.72	0.139	0.067	<0.01	0.03	0.52	6.5	30.6	EVA-17-007370
Carleton	Hourglass	Aug 24/17	HLvA-QIN2	366016.30	6[illegible]7529.57	0.25	61.80	81.7	2.32	0.134	0.063	<0.01	0.38	0.78	6.6	36.80	EVA-17-007373
Carleton	Hourglass	Aug 24/17	HL-OS1-C3	366606.66	6[illegible]2678.74	0.25	49.80	90.4	2.41	0.073	0.026	<0.01	0.01	0.41	6.7	36.30	EVA-17-007377
Carleton	Hourglass	Aug 24/17	HL-OS1 BOTTOM	366606.66	6[illegible]2678.74	6.3	-	306.0	7.61	0.461	0.320	<0.01	1.15	1.06	7.1	-	EVA-17-007381
Carleton	Hourglass	Aug 24/17	HL-OL1	367073.20	6[illegible]1873.30	0.25	26.10	89.5	0.96	0.027	0.010	<0.01	0.03	0.37	6.9	9.03	EVA-17-007383
Mahaffey	Mahaffey	Aug 24/17	HL-IN1	366636.63	6[illegible]8411.34	0.25	1.34	60.9	3.37	0.306	0.230	0.28	0.07	1.00	7.4	3.38	EVA-17-007395
Mahaffey	Mahaffey	Aug 29/17	OS1	366098.00	6[illegible]8631.00	0.25	4.18	33.4	1.21	0.54	0.413	<0.01	0.04	-	-	-	-
Mahaffey	Mahaffey	Aug 29/17	OS1	366098.00	6[illegible]8631.00	1	44.7	33.3	13.2	0.56	0.44	0.01	0.04	-	-	-	-
Mahaffey	Mahaffey	Aug 29/17	OS1	366098.00	6[illegible]8631.00	4.5	-	34.2	4.36	0.71	0.523	0.03	0.08	1.30	-	-	-
Mahaffey	Mahaffey	Aug 24/17	HL-OL1B	366666.17	6[illegible]8644.96	0.25	16.70	47.5	3.89	0.271	0.147	0.04	0.27	0.98	7.1	17.60	EVA-17-007401
Mahaffey	Mahaffey	Aug 24/17	HL-OL1B Dup	366666.17	6[illegible]8644.96	0.25	16.40	48.8	-	0.273	0.150	-	-	-	-	15.30	EVA-17-007403 (TDUP)
Carleton	Fleabane	Aug 22/17	PLAt-IN1	364303.31	6[illegible]9[illegible].80	0.25	4.64	136.0	2.75	0.708	0.627	0.39	0.36	1.47	7.8	4.37	EVA-17-007316
Carleton	Fleabane	Aug 22/17	PLAt-OS1	364095.36	6[illegible]6775.89	0.25	5.39	95.4	2.99	0.618	0.506	<0.01	0.01	0.44	6.2	4.57	EVA-17-007317
Carleton	Fleabane	Aug 22/17	PLAt-OS1 BOTTOM	364095.36	6[illegible]6773.89	3.3	-	164.0	3.25	0.461	0.330	<0.01	0.04	0.34	6.9	-	EVA-17-007319
Carleton	Fleabane	Aug 22/17	PLAt-OL1	363836.49	6[illegible]0846.38	0.25	9.30	103.0	3.30	0.334	0.310	<0.01	0.01	0.51	6.8	7.29	EVA-17-007324
Carleton	Pencupine	Aug 22/17	PORu-IN1	366112.24	6[illegible]4238.84	0.25	3.87	212.0	6.03	0.199	0.096	0.04	0.04	0.84	6.8	6.43	EVA-17-007329
Carleton	Pencupine	Aug 22/17	PORu-OS3	365613.48	6[illegible]6475.31	0.25	3.41	64.7	1.09	0.017	0.013	<0.01	<0.01	0.29	6.9	2.99	EVA-17-007336
Carleton	Pencupine	Aug 22/17	PORu-OS3 BOTTOM	365613.48	6[illegible]6475.31	13	-	52.0	10.48	0.045	0.024	0.03	0.15	0.46	6.9	-	EVA-17-007337
Carleton	Pencupine	Aug 22/17	PORu-OL1	364379.43	6[illegible]6546.44	0.25	3.75	48.9	0.91	0.016	0.003	<0.01	0.01	0.39	6.9	3.37	EVA-17-007338
Carleton	Hawthorn	Aug 21/17	HL-IN1	365160.02	6[illegible]9263.51	0.25	1.65	192.0	1.08	0.219	0.173	0.03	0.02	0.64	6.8	2.71	EVA-17-007348
Carleton	Hawthorn	Aug 21/17	HL-IN2	366642.91	6[illegible]5318.84	0.25	0.76	380.0	0.92	0.024	0.011	<0.01	0.03	0.84	6.6	1.64	EVA-17-007353
Carleton	Hawthorn	Aug 21/17	HL-IN3	364182.82	6[illegible]9483.98	0.25	2.23	297.0	1.30	0.046	0.029	<0.01	0.02	0.65	6.5	4.31	EVA-17-007355
Carleton	Hawthorn	Aug 21/17	HL-IN4	367[illegible]6.86	6[illegible]9792.32	0.25	1.06	516.0	2.23	0.023	0.006	<0.01	0.10	1.34	6.2	2.57	EVA-17-007367
Carleton	Hawthorn	Aug 21/17	HL-OS1	366350.00	6[illegible]9791.00	0.25	4.43	198.0	0.77	0.084	0.067	<0.01	0.02	0.46	6.5	4.56	EVA-17-007372
Carleton	Hawthorn	Aug 21/17	HL-OS1 BOTTOM	366350.00	6[illegible]9791.00	4.8	-	161.0	1.77	0.134	0.094	<0.01	0.03	0.46	6.1	-	EVA-17-007374
Carleton	Hawthorn	Aug 21/17	HL-OS1-PDup	366350.00	6[illegible]9791.00	4.8	-	166.0	1.99	0.136	0.092	<0.01	0.03	0.46	6.2	-	EVA-17-007377 (TDUP)
Carleton	Hawthorn	Aug 21/17	HL-OL1	366432.97	6[illegible]5321.62	0.25	4.26	164.0	0.81	0.131	0.087	<0.01	0.02	0.44	6.3	4.19	EVA-17-007249
Carleton	Ager	Aug 30/17	PARL-IN1	366639.00	6[illegible]4684.49	0.25	1.06	213.0	1.27	0.046	0.024	<0.01	0.03	0.58	6.2	2.71	EVA-17-007112
Carleton	Ager	Aug 30/17	PARL-IN2	367532.99	6[illegible]4756.72	0.25	1.06	216.0	2.30	0.016	0.007	<0.01	0.02	0.61	6.9	2.39	EVA-17-007114
Carleton	Ager	Aug 30/17	PARL-IN3	366273.48	6[illegible]4634.25	0.25	0.31	396.0	1.06	0.020	0.006	<0.01	0.05	0.67	6.7	0.80	EVA-17-007116
Carleton	Ager	Aug 30/17	PARL-OS1 BOTTOM	367363.99	6[illegible]4072.23	5.0	-	124.0	1.63	0.043	0.044	<0.01	0.01	0.60	6.5	-	EVA-17-007130
Carleton	Ager	Aug 30/17	PARL-OL1	367315.00	6[illegible]4737.73	0.25	2.76	113.0	1.62	0.046	0.040	<0.01	0.01	0.56	6.3	4.16	EVA-17-007118
Carleton	Ogden	Aug 30/17	OLvN1	367141.53	6[illegible]4576.30	0.25	3.63	119.0	1.63	0.063	0.039	<0.01	0.01	0.37	6.3	4.93	EVA-17-007121
Carleton	Ogden	Aug 30/17	OLvOS1 BOTTOM	367429.00	6[illegible]9733.00	19	-	83.4	1.62	0.024	0.016	<0.01	0.01	0.38	6.6	-	EVA-17-007123
Carleton	Ogden	Aug 30/17	OLvOL1	366619.33	6[illegible]6037.64	0.25	5.12	61.5	2.13	0.037	0.018	<0.01	<0.01	0.33	6.6	5.37	EVA-17-007122
Carleton	Fanning	Aug 23/17	FvN-IN1	366463.34	6[illegible]7633.41	0.25	3.00	103.0	1.12	0.038	0.017	<0.01	0.03	0.37	6.3	3.47	EVA-17-007361
Carleton	Fanning	Aug 23/17	FvN-IN2	367484.80	6[illegible]7135.36	0.25	3.45	93.0	0.94	0.011	0.004	<0.01	0.02	0.34	6.4	3.63	EVA-17-007363
Carleton	Fanning	Aug 23/17	FvN-IN3	367410.47	6[illegible]7968.67	0.25	6.95	33.3	0.40	0.004	0.004	<0.01	<0.01	0.19	6.5	1.18	EVA-17-007365
Carleton	Fanning	Aug 23/17	FvOS1-C3	366176.80	6[illegible]7[illegible].00	0.25	3.39	82.2	1.66	0.022	0.010	<0.01	0.02	0.33	6.4	3.09	EVA-17-007367
Carleton	Fanning	Aug 23/17	FvOS1 BOTTOM	366175.00	6[illegible]7[illegible].00	10	-	91.6	0.64	0.010	0.006	<0.01	0.02	0.33	6.4	-	EVA-17-007369
Carleton	Fanning	Aug 23/17	FvOS1 Dup	366175.00	6[illegible]7[illegible].00	10	1.79	84.3	-	0.007	0.011	-	-	-	-	4.72	EVA-17-007371 (P)
Carleton	Fanning	Aug 23/17	FvOL1	368643.72	6[illegible]7251.99	0.25	3.29	76.0	1.06	0.022	0.013	<0.01	0.02	0.33	6.4	3.81	EVA-17-007369

Table D.1 Laboratory Results from August, 2017 sampling event

Watershed	Lake	Date	Station ID	Easting (UTM)	Northing (UTM)	Depth (m)	Chlorophyll (µg/L)	Color (TCU)	Turbidity (NTU)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Laboratory pH	Pheo-phytin (µg/L)	Lab Accession #
Carleton	Illaro	Aug. 21/17	IL-DS1	368144.09	4878167.23	0.30	1.33	14.6	0.33	0.004	0.004	<0.01	<0.01	0.13	7.8	1.6	EV-17-087368
Carleton	Illaro	Aug. 21/17	IL-DS1 BOTTOM	368144.09	4878167.23	21	-	16.3	0.40	0.004	0.004	0.04	0.03	0.21	6.9		EV-17-087363
Carleton	Illaro	Aug. 21/17	IL-DS2	[illegible]	4872[illegible].04	0.33	1.01	13.6	0.48	0.003	0.003	<0.01	<0.01	0.13	6.9	1.47	EV-17-087364
Carleton	Illaro	Aug. 21/17	IL-DS2 BOTTOM	368881.53	4873[illegible].04	16.8	-	11.4	0.34	0.003	-	<0.01	<0.01	0.12	6.6	-	EV-17-087367
Carleton	Illaro	Aug. 21/17	IL-DL1	365352.53	4872[illegible].43	0.35	4.09	16.9	0.34	0.003	-	<0.01	<0.01	0.16	7.6	3.29	EV-17-087370
Carleton	Vaughan	Aug. 24/17	VL-DL1	364478.35	4864798.[illegible]	0.25	1.93	47.9	0.40	0.011	0.007	<0.01	0.02	0.35	6.5	3.85	EV-17-087394
Carleton	Vaughan	Aug. 24/17	VL-DL2	363337.79	4864874.46	0.35	1.67	19.8	0.74	0.013	0.007	<0.01	0.02	0.36	6.3	4.52	EV-17-087385
Carleton	Vaughan	Aug. 24/17	VL-DL2 (DUP)	363337.79	4864874.46	0.35	1.83	46.8	-	0.011	0.007	-	-	-	-	2.74	EV-17-087387 (DDUP)
Carleton	Vaughan	Aug. 24/17	VL-DS1 BOTTOM	364348.84	4867[illegible].17	0.35	14.70	81.2	1.60	0.015	0.010	<0.01	0.02	0.39	6.5	10.40	EV-17-087379
Carleton	Vaughan	Aug. 24/17	VL-DS1 BOTTOM	364348.84	4867[illegible].17	17.4	-	199.8	3.65	0.136	0.103	<0.01	0.34	0.91	7.2	-	EV-17-087383
Carleton	Vaughan	Aug. 24/17	VL-DS2-CS	362443.60	4864791.13	0.35	3.35	193.8	0.65	0.013	0.004	<0.01	0.02	0.30	6.3	4.40	EV-17-087374
Carleton	Vaughan	Aug. 24/17	VL-DS2 BOTTOM	362443.60	4864791.13	6	-	173.8	0.83	0.012	0.011	<0.01	0.02	0.30	6.3	-	EV-17-087376
Carleton	Vaughan	Aug. 24/17	VL-DL1	361313.[illegible]	4863[illegible].80	0.35	2.49	141.8	0.91	0.012	0.010	<0.01	0.02	0.33	6.4	4.06	EV-17-087389
CCME Freshwater Aquatic Life Guidelines							-	-	-	0.035[1]	-	-	Variable[2]	-	6.5 - 9.0	-	
Health Canada Recreational Water Quality Guidelines							-	-	50	-	-	-	-	-	5.0 - 9.0	-	

Notes

CCME FAL exceedances in bolded values, Health Canada RWQG exceedances in underlined values. The CCME FAL guidelines shown represent long term exposure values.

[1] Phosphorus concentrations >0.035 mg/L are considered eutrophic

[2] Ammonia FAL guidelines are based on temperature (°C) and pH

Table D.2 Field Data from August, 2017 sampling event

Lake	Sample Date	Sample Time	Station ID	Easting (UTM)	Northing (UTM)	Depth (m)	Temp (°C)	Conductivity (µS/cm)	Sp Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Saturation)	Disc Disappears (m)	Disc Reappears (m)	Average (m)	Sampled by	Comments
Prevost Lake	22/08/2017	11:00	PROL-DS1	272611.74	4914903.20	0.25	22.75	43	41	8.92	7.76	90.1	3.4	2	2.7	Dan Lee/Uwe Ruschmeyer	
Prevost Lake	22/08/2017	11:00	PROL-DS1	272611.74	4914903.20	4.5	21.05	44	41	6.16	7.03	77.4	-	-	-	Dan Lee/Uwe Ruschmeyer	
Prevost Lake	22/08/2017	11:43	PROL-OL1	273092.29	4913653.16	0.25	19.95	49	44	5.63	6.27	67.5	Visible on bottom at 0.2 m			Dan Lee/Uwe Ruschmeyer	
Hourglass Lake	24/08/2017	-	HL-IN1	-	-	HL-IN1 not sampled as it was completely dry at time of survey										Dan Lee/Danielle Keiper	
Hourglass Lake	24/08/2017	12:30	HL-AQIN1	266693.47	4911977.97	0.25	21.64	73	46	4.33	8.00	90.9	Not taken, as inlet is a pipe			Dan Lee/Danielle Keiper	
Hourglass Lake	24/08/2017	12:35	HL-AQIN2	266816.20	4912329.57	0.25	21.84	74	70	4.29	7.34	81.7	Visible on bottom at 0.5 m			Dan Lee/Danielle Keiper	Fairy shrimp present, but not able to determine whether they are from the water, or just downwind of [illegible]
Hourglass Lake	24/08/2017	12:15	HL-DS1	266805.05	4912678.74	0.25	24.38	65	68	6.69	8.58	106.6	0.25	0.75	1	Dan Lee/Danielle Keiper	
Hourglass Lake	24/08/2017	12:15	HL-DS1	266805.05	4912678.74	2	20.87	69	63	5.13	4.87	54.8	-	-	-	Dan Lee/Danielle Keiper	
Hourglass Lake	24/08/2017	12:15	HL-DS1	266805.05	4912678.74	4.5	10.70	120	84	6.11	2.68	21.7	-	-	-	Dan Lee/Danielle Keiper	
Hourglass Lake	24/08/2017	11:43	HL-OL1	267072.30	4911872.30	0.25	23.31	69	67	5.58	6.99	104.1	Visible on bottom at 0.75 m			Dan Lee/Danielle Keiper	
Newbery Lake	24/08/2017	16:45	NL-IN1	266624.43	4910411.36	0.25	No suitable location with enough depth to submerge YSI sonde									Dan Lee/Danielle Keiper	[illegible] -20m upstream of inlet [illegible] approximately 400 m downstream.
Newbery Lake	24/08/2017	15:35	NL-OL15	267644.17	4910664.96	0.25	19.45	80	72	6.77	4.34	43.5	Visible on bottom at 0.3 m			Dan Lee/Danielle Keiper	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	0.25	21.2	-	-	-	12.84	145.6	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	1	21.1	-	-	-	12.84	143.8	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	2	21.1	-	-	-	12.04	135.4	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	3	20.9	-	-	-	11.17	124.3	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	4	20.6	-	-	-	7.2	79.4	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	5	19.9	-	-	-	3.54	40.1	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	6	16.5	-	-	-	5.67	62.5	-	-	-	MDAF	
Newbery Lake	29/08/2017	-	NL-DS1	265890.00	4910831.00	7	16.4	-	-		6.69	67.7	-			MDAF	
Plastiques Lake	22/08/2017	17:30	PLAL-IN1	266303.31	4909166.01	0.25	22.54	101	96	5.61	4.75	75.9	1	0.9	0.95	Dan Lee/Uwe Ruschmeyer	
Plastiques Lake	22/08/2017	18:00	PLAL-DS1	266098.26	4908775.89	0.25	24.19	69	68	5.93	7.73	92.3	0.75	0.3	0.525	Dan Lee/Uwe Ruschmeyer	
Plastiques Lake	22/08/2017	18:00	PLAL-DS1	266098.26	4908775.89	1.3	23.17	69	67	5.76	6.29	78.8	-	-	-	Dan Lee/Uwe Ruschmeyer	
Plastiques Lake	22/08/2017	18:00	PLAL-DS1	266098.26	4908775.89	3.5	20.03	99	90	5.55	5.16	54.8	-	-	-	Dan Lee/Uwe Ruschmeyer	
Plastiques Lake	22/08/2017	16:30	PLAL-OL1	265838.49	4908440.35	0.25	22.90	68	64	4.44	6.30	94.4	Visible on bottom at 1.0 m			Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	14:00	PQ6L-IN1	266112.34	4906425.84	0.25	19.03	68	60	4.13	8.04	97.7	Barely visible on bottom at 0.6 m			Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	14:00	PQ6L-IN1	266112.34	4906425.84	0.5	18.62	66	58	6.11	5.84	63.0	-	-	-	Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	14:45	PQ6L-DS2	265813.46	4906476.51	0.25	23.18	56	54	5.56	7.03	83.1	3.5	3.25	3.375	Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	14:45	PQ6L-DS2	265813.46	4906476.51	4.75	20.50	57	52	5.76	5.61	62.3	-	-	-	Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	14:45	PQ6L-DS2	265813.46	4906476.51	12	19.05	62	48	5.86	4.23	37.7	-	-	-	Dan Lee/Uwe Ruschmeyer	
Pemquipme Lake	22/08/2017	13:15	PQ6L-OL1	266279.42	4906548.44	0.25	23.40	54	53	4.21	9.21	93.9	Visible on bottom at 1.5 m			Dan Lee/Uwe Ruschmeyer	
Wentworth Lake	21/08/2017	11:05	WL-IN1	265180.02	4899363.51	0.25	20.08	62	56	4.57	4.85	52.4	1	0.75	0.875	Dan Lee/Danielle Keiper	
Wentworth Lake	21/08/2017	11:05	WL-IN1	265180.02	4899363.51	0.75	20.09	62	56	4.55	5.91	63.1	-	-	-	Dan Lee/Danielle Keiper	
Wentworth Lake	21/08/2017	10:30	WL-IN2	266542.91	4899218.84	0.25	17.54	50	43	3.95	4.72	44.1	Visible on bottom at 0.2 m			Dan Lee/Danielle Keiper	
Wentworth Lake	21/08/2017	10:00	WL-IN3	266462.82	4899363.88	0.25	18.73	45	40	3.71	4.94	53.0	Visible on bottom at 0.6 m			Dan Lee/Danielle Keiper	
Wentworth Lake	21/08/2017	10:00	WL-IN3	266462.82	4899363.88	0.45	18.72	45	40	3.73	5.38	54.8	-	-	-	Dan Lee/Danielle Keiper	
Wentworth Lake	21/08/2017	12:35	WL-IN4	266749.56	4894792.33	0.25	17.89	74	64	3.43	4.57	44.3	Visible on bottom at 0.4m			Dan Lee/Danielle Keiper	

Table D.2 Field Data from August, 2017 sampling event

Lake	Sample Date	Sample Time	Station ID	Easting (UTM)	Northing (UTM)	Depth (m)	Temp (°C)	Conductivity (µS/cm)	Sp Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Saturation)	Disc Disappears (m)	Disc Reappears (m)	Average (m)	Sampled by	Comments
Wentworth Lake	21/08/2017	11:40	WL-DS1	265258.00	4874791.00	0.25	22.31	47	44	8.00	6.91	79.3	0.75	0.5	0.625	Dan Lee/Danielle Keeler	
Wentworth Lake	21/08/2017	11:40	WL-DS1	265258.00	4874791.00	1.3	20.90	47	43	8.01	6.97	78.0	-	-	-	Dan Lee/Danielle Keeler	
Wentworth Lake	21/08/2017	11:40	WL-DS1	265258.00	4874791.00	4.5	19.56	48	44	4.75	7.33	78.9	-	-	-	Dan Lee/Danielle Keeler	
Wentworth Lake	21/08/2017	12:00	WL-DL1	265452.97	4875321.62	0.25	23.37	47	43	8.04	7.13	83.0	-	0.75	0.875	Dan Lee/Danielle Keeler	
Wentworth Lake	21/08/2017	12:00	WL-DL1	265452.97	4875321.62	1.0	21.33	48	43	8.00	7.77	83.6	-	-	-	Dan Lee/Danielle Keeler	
Parr Lake	20/08/2017	-	PARL-PN4	266839.08	4886884.49	0.25	17.48	42	36	6.83	6.23	68.0	-	0.75	0.875	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-PN4	266839.08	4886884.49	1.80	17.47	43	36	6.84	6.67	66.7	-	-	-	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-PN6	267658.99	4887464.70	0.25	16.44	38	33	6.98	7.05	72.1	Visible on bottom at 0.75 m			Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-PNC	266523.60	4886434.25	0.25	18.86	44	37	6.81	7.65	77.8	Visible on bottom at 0.75 m			Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-DS1	267362.99	4886073.23	0.25	21.04	44	42	8.10	5.63	63.0	-	0.75	0.875	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-DS1	267362.99	4886073.23	3	20.95	45	42	8.06	5.60	62.7	-	-	-	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-DS1	267362.99	4886073.23	6.8	19.29	65	50	8.04	5.74	62.3	-	-	-	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-DL1	267218.08	4886437.78	0.25	21.08	45	43	6.71	6.71	75.3	1.6	1.4	1.5	Dan Lee/Howard Hayward	
Parr Lake	20/08/2017	-	PARL-DL1	267218.08	4886437.78	1.9	21.13	45	42	6.78	7.13	80.1	-	-	-	Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-PN1	267141.32	4886276.20	0.25	21.2	46	42	6.86	6.38	71.3	Visible on bottom at 1.8 m			Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-PN1	267141.32	4886276.20	1.2	21.19	45	42	6.76	6.60	73.7				Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-DS1	267409.00	4886935.00	0.25	21.97	46	43	5.17	5.14	59.5	2.1	1.9	2	Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-DS1	267409.00	4886935.00	4	21.03	46	43	6.58	4.46	51.0	-	-	-	Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-DS1	267409.00	4886935.00	19	8.34	56	38	6.33	8.67	5.9	-	-	-	Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-DL1	266819.33	4881607.06	0.25	21.56	48	41	8.16	6.23	70.2	Visible on bottom at 1.5 m			Dan Lee/Howard Hayward	
Ogden Lake	20/08/2017	-	OL-DL1	266819.33	4881607.06	1.2	21	44	42	8.08	6.38	73.2	-	-	-	Dan Lee/Howard Hayward	
Lake Fanning	23/08/2017	9:40	LF-PN1	266342.34	4878333.41	0.25	22.01	48	43	8.17	6.95	79.7	Not completed due to current			Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	10:15	LF-PN3	267484.80	4879135.36	0.25	21.21	41	36	8.30	7.04	78.9	Visible on bottom at 0.65 m			Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	9:50	LF-PN3	267410.67	4878296.57	0.25	22.49	53	51	8.44	7.01	80.7	Visible on bottom at 0.75 m			Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	9:30	LF-DS3	266178.00	4878122.00	0.25	22.01	46	43	8.22	6.41	73.3	1.6	1.4	1.5	Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	9:30	LF-DS3	266178.00	4878122.00	3	21.98	46	43	8.27	6.37	63.8	-	-	-	Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	9:30	LF-DS3	266178.00	4878122.00	10	16.83	62	53	8.04	1.93	17.3	-	-	-	Dan Lee/Jean Cleveland	
Lake Fanning	23/08/2017	8:45	LF-DL1	265363.73	4876721.29	0.25	21.31	47	43	6.6	6.43	71.9	Visible on bottom at 0.75 m			Dan Lee/Jean Cleveland	
Sharon Lake	21/08/2017	16:35	SL-DS1	263144.89	4875167.22	0.25	22.80	54	53	8.93	6.45	76.8	4.3	4.2	4.35	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	16:33	SL-DS1	263144.89	4875167.22	9	11.13	57	42	8.81	6.96	66.9	-	-	-	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	16:38	SL-DS1	263144.89	4875167.22	21	6.50	58	36	8.39	6.20	46.9	-	-	-	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	14:48	SL-DS2	263801.53	4875017.06	0.25	23.00	53	50	8.27	6.36	75.4	5	4.5	4.75	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	14:46	SL-DS2	263801.53	4875017.06	9.5	8.91	53	37	6.76	6.66	38.6	-	-	-	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	14:46	SL-DS2	263801.53	4875017.06	13.5	7.06	55	35	8.08	6.81	39.1	-	-	-	Dan Lee/Danielle Keeler	
Sharon Lake	21/08/2017	14:25	SL-DL1	263532.52	4872271.42	0.25	24.31	53	52	8.51	7.63	90.8	Visible on bottom at 0.3 m			Dan Lee/Danielle Keeler	
Lake Vaughan	24/08/2017	8:00	VL-PN1	264629.35	4867980.00	0.25	20.46	48	43	8.02	6.98	77.4	Visible on bottom at 2.75 m			Dan Lee/W B Peele	
Lake Vaughan	24/08/2017	8:00	VL-PN1	264629.35	4867980.00	2.35	20.43	48	44	8.79	6.99	77.6	-	-	-	Dan Lee/W B Peele	
Lake Vaughan	24/08/2017	7:00	VL-PN2	263327.79	4864874.48	0.25	21.44	39	34	8.52	6.47	73.5	0.75	0.5	0.625	Dan Lee/W B Peele	
Lake Vaughan	24/08/2017	7:00	VL-PN2	263327.79	4864874.48	1.3	21.43	39	37	8.41	6.49	73.7	-	-	-	Dan Lee/W B Peele	
Lake Vaughan	24/08/2017	7:00	VL-PN2	263327.79	4864874.48	3	21.47	39	34	8.35	6.54	74.3	-	-	-	Dan Lee/W B Peele	
Lake Vaughan	24/08/2017	7:45	VL-DS1X	264360.84	4867440.17	0.25	21.94	48	45	8.48	6.79	77.5	1.75	1.5	1.625	Dan Lee/W B Peele	

Table D.2 Field Data from August, 2017 sampling event

Lake	Sample Date	Sample Time	Station ID	Easting (UTM)	Northing (UTM)	Depth (m)	Temp (°C)	Conductivity (µS/cm)	Sp Conductivity (µS/cm)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% Saturation)	Disc Disappears (m)	Disc Reappears (m)	Average (m)	Sampled by	Comments
Lake Vaughan	24/08/2017	7:45	VL-DS1 K	264360.84	4867660.17	3.25	21.82	48	45	8.29	6.72	87.2	-	-	-	Dan Lee/W.B Poole	
Lake Vaughan	24/08/2017	7:45	VL-DS1 E	264360.84	4867660.17	17.6	12.17	85	64	5.80	1.85	16.1	-	-	-	Dan Lee/W.B Poole	Smell of sulphur smell from water hose
Lake Vaughan	24/08/2017	8:45	VL-DS2	263448.84	4864791.13	0.25	21.64	38	34	6.56	6.65	75.5	1	0.75	0.875	Dan Lee/W.B Poole	
Lake Vaughan	24/08/2017	8:45	VL-DS2	263448.84	4864791.13	1.75	21.61	38	34	6.56	6.68	75.8	-	-	-	Dan Lee/W.B Poole	
Lake Vaughan	24/08/2017	8:48	VL-DS2	263448.84	4864791.13	8	21.53	39	36	6.57	6.84	77.4	-	-	-	Dan Lee/W.B Poole	
Lake Vaughan	24/08/2017	9:30	VL-OL1	261213.00	4863313.00	0.25	21.71	39	37	6.80	6.95	78.6	1	0.75	0.875	Dan Lee/W.B Poole	
CCME Protection Aquatic Life Guidelines							Narrative[1]	-	-	6.5 - 9.0	6.5[2]	-					
Health Canada Recreational Water Quality Guidelines							-	-	-	6.5 - 9.0	-	-			1.2		

Notes:

CCME PAL exceedances = bolded values, Health Canada RWQG exceedances = underlined values. The CCME PAL guidelines shown represent long term exposure values

[1]Thermal additions to receiving waters should be such that thermal stratification and subsequent turnover dates are not altered from those existing prior to the addition of heat from anthropogenic origins. Thermal additions to receiving waters should be such that the maximum weekly average temperature is not exceeded

[2]Minimum DO concentration for cold water biota (other life stages)

Table D.3 Cyanobacteria and Microcystin data from July and August, 2017 sampling events

Lake	Date Sampled	Microcystin (µg/L)	Total Cyanobacteria Cell Count (cells/mL)
Hourglass	5-Jul-17	-	<1
	15-Aug-17	<0.20	3,470
Wentworth	5-Jul-17	-	10
	15-Aug-17	<0.20	100
Parr	5-Jul-17	-	92
	15-Aug-17	<0.20	20
Ogden	15-Aug-17	<0.20	390
Provost	30-Aug-17	<0.20	270
Nowlans	29-Aug-17	<0.20	20,300
Porcupine	5-Jul-17	-	136
	29-Aug-17	<0.20	525
Placides	4-Jul-17	-	4,310
	29-Aug-17	<0.20	650
Sloans	5-Jul-17	-	1,130
Vaughan	5-Jul-17	-	5,490
Health Canada GCRWQ		**<20 µg/L**	**<100,000 cells/mL**

GCRWQ=Guidelines for Recreational Water Quality

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (mS/cm)	Secchi (m)	Chlorophyll (µg/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	BOD/DCO	Notes	Turbidity (TDS)	pH (from lab)	Pheophytin (µg/L)
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	0.25	35.7	3	3.98	34	0.8	6	<10.0	0.017	<.002	<.01	0.07	0.27	1.3		NSDPA	Lady Bowen and Andrew at 11:45		6.3	4.24
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	1	35.7	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	2	35.7	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	3	35.7	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	4	35.7	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	5	35.3	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	6	35.7	3	5.41	34	0.8	6.3	<25.0	0.043	0.014	<.01	0.04	1.2	8.7		NSDPA			7	14.6
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	7	35.4	3													NSDPA				
Lesabe	Provost	Aug 30/17	PEQL-051	272231	4916577	8	35.1	3													NSDPA				
Lesabe	Provost	Aug 22/17	PEQL-051	2729111.74	4916903.7	0.25	43	2.2												6.93	Trimmer				
Lesabe	Provost	Aug 22/17	PEQL-051	2729111.74	4916903.7				4.19	34.3	1.39			0.028	0.004	<.01	0.01	0.29			Trimmer			6.4	4.76
Lesabe	Provost	Aug 22/17	PEQL-051	2729111.74	4916903.7	4.5	44	2.2												6.16	Trimmer				
Lesabe	Provost	Aug 22/17	PEQL-051	2729111.74	4916903.7					36.1	1.4			0.014	0.003	<.01	<.01	0.26			Trimmer			6.6	
Lesabe	Provost	Aug 22/17	PEQL-051	2728297.79	4916818.14	0.25	49	0.3	1.23	133	0.81			0.07	0.009	<.01	0.07	0.49			Trimmer			6.3	3.87
Lesabe	Provost	Aug 30/16	PEQL-051			0.25	33.7	2.4	9.63	79	1.74	5	<12.0	0.016	0.004	<.01	0.03	0.27	1.3	2.63				6.5	
Lesabe	Provost	Aug 30/16	PEQL-051			1	34.6	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			2	34.9	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			3	34.9	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			4	34.9	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			4.8	33.7	2.4	1.57	30.4	1.67	5.1	<8.3	0.018	0.005	<.01	0.06	0.27	1.5					6.3	
Lesabe	Provost	Aug 30/16	PEQL-051			5	33	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			5.5	35.4	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			6.5	33	2.4		39.9	2.83	5.6		0.027	0.006	<.01	0.11	0.34	1.9					6.5	
Lesabe	Provost	Aug 30/16	PEQL-051			7	67.3	2.4																	
Lesabe	Provost	Aug 30/16	PEQL-051			7.5	83.2	2.4																	
Lesabe	Provost	Aug 18/16	PEQL-051			0.25	36.7	2.65	6.6	47.1	0.76	6.2	<10	0.016	0.007	<.01	<.01	0.31	1.6		NSDPA			6.4	
Lesabe	Provost	Aug 18/16	PEQL-051			1	35.8	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			2	35.6	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			3	36.3	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			4	37.5	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			5	49.3	2.65	17	318	11.6	6.5	<10	0.047	0.017	<.01	0.07	0.86	5.8		NSDPA			6.9	
Lesabe	Provost	Aug 18/16	PEQL-051			6	56.4	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			7	70.4	2.65													NSDPA				
Lesabe	Provost	Aug 18/16	PEQL-051			8	68.6	2.65		373	17.4	11.9		0.091	0.045	<.01	0.06	1.31	8.9		NSDPA			7	
Lesabe	Provost	August 28/14				0		1.09	31	82.6	5.96	10.7	4	0.016	0.004	0.02	0.02	0.32	1.8		NSDPA			6.4	
Lesabe	Provost	August 28/14				4.5		1.06	13	205.5	9.81	13.3	3	0.143	0.076	<.01	1.71	2.32	11.9		NSDPA			7.1	
Lesabe	Provost	August 28/14				8		1.05		431	9.13	13.1		0.144	0.068	<.01	2.04	2.7	14.6		NSDPA			7.1	
Lesabe	Provost	August 12/13	PEQL-051	271106	4915749	0.25	36.3	0.99	32	72.3	1.66			0.016	<.005	0.01		0.68	1.3	8.96	mm		24.7	6	
Lesabe	Provost	August 12/13	PEQL-051			1	36.3	0.99												8.94	mm		24.7		
Lesabe	Provost	August 12/13	PEQL-051			2	36.3	0.99												8.86	mm		24.7		
Lesabe	Provost	August 12/13	PEQL-051			3	36.3	0.99												8.81	mm		24.7		
Lesabe	Provost	August 12/13	PEQL-051			4	36.3	0.99		86.4	1.67			0.016	<.005	0.03		0.36	1.6	8.39	mm		21.33	4.2	
Lesabe	Provost	August 12/13	PEQL-051			5	36.3	0.99												8.36	mm		36		
Lesabe	Provost	Jan 27/09	PEQL-051				53		0	349		79.3		0.016	0.003	0.01		0.32	1	4.3	NSDOE	[illegible]			
Lesabe	Provost	Aug/15/08	PEQL-051			0	43	2.7	18	32		6.2		0.011	0.005	0.01		0.45	3	6.3	NSDOE	[illegible] conductivity in microsiemens per centimeter			
Lesabe	Provost	Aug/15/11	PEQL-051			0		0.6	19.6	43.8		7		0.011	0.005	0.01	0.07	0.632			NSDOE	[illegible] Water used: Tap (Potable) Pail, except on April 30 and May 1 (YSI 6600)			
Lesabe	Provost	Aug/15/11	PEQL-051			6				85.4		8		0.016	0.003	0.011		0.03			NSDOE				
Lesabe	Provost	Jan/01/13	PEQL-051			0	40.7	1.2	20.3	36	1.67	5.8	1.6	0.016	0.005	0.04	0.03	0.79	1	6	NSDOE				
Lesabe	Provost	Jan/27/09	PEQL-051			0	42.6	1.5	28	46		9		0.02	0.006	0.01		0.31	1.3	9.9	NSDOE				
Lesabe	Provost	Jan/27/09	PEQL-051			4.5	39.1			70		9.2		0.07	0.006	0.01		0.36	1	8.6	NSDOE				
Lesabe	Provost	Sept/26/83				0	38.9	6				4.6		0.003	0.001	0.01		0.57	1.8	9.9	NSDEB				
Lesabe	Provost	Sept/26/83				8	36.7			16		4		0.003	0.001	0.01		0.19		8.67	NSDEB				
Lesabe	Provost	Jan/01/10	PEQL-051						9.9		1.37		2.5	0.015	0.003		0.04	0.534	3.2	4.4	NSDOE				
Lesabe	Provost	Jan/27/09	PEQL-051						23	78		10		0.016	0.006	0.01		0.3	1	6.4	NSDOE				
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	0.25	44.4	1	61.8	93.6	13.1	8	<7.5	0.047	0.433	<.01	0.06	0	9.6			Lady Bowen and Andrew at 11:45		7.3	11.8
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	1	44.3	1																	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	2	44.4	1	40.7	95.1	13.7	8	<7.5	0.044	0.44	0.01	0.06	0	9.3					7.3	10.7
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	3	43.1	1																	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	4	44.1	1																	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	4.5		1		94.3	4.78	7	<12.5	0.044	0.522	0.07	0.58	1.78	13.7					7.3	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	5	87.1	1																	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	6	105.5	1																	
Meteghan	Yowlaine	Aug 29/17	D51	261890	4910831	7	131.7	1																	
Meteghan	Yowlaine	Aug 24/17	Pier	266474.43	4910611.54	0.25			1.26	60.9	3.37			0.33	2.93	0.29	0.82	1.9						7.6	3.36
Meteghan	Yowlaine	Aug 24/17	Outlet	266468.17	4910666.96	0.25			1.67	49.5	2.99			0.671	0.447	0.08	4.77	0.48						7.1	17.6
Meteghan	Yowlaine	Aug 24/17	Outlet Dup	266468.17	4910666.96				1.68	48.9				0.673	0.43										18.2
Meteghan	Yowlaine	Aug 30/16	ND51			0.25	64.5	0.85	78.7	14.7	15.1	4.3	11	0.546	0.513	<.01	0.01	n/a	n/a	9.9				7.6	
Meteghan	Yowlaine	Aug 30/16	ND51			1	65.5	0.85																	
Meteghan	Yowlaine	Aug 30/16	ND51			1.7		0.85	49.6	15.9	14.3	4.4	10.7	0.566	0.533	<.01	0.02	n/a	n/a	9.9				7.3	
Meteghan	Yowlaine	Aug 30/16	ND51			2	66.3	0.85																	

Table D 4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU)	Turbidity (NTU)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TBS)	pH (from lab)	Pheophytin (ug/L)
Meteghan	Nowlans	Aug 30/16	NL-09			8	66.3	0.88																	
Meteghan	Nowlans	Aug 30/16	NL-09			4	67.3	0.63																	
Meteghan	Nowlans	Aug 30/16	NL-09			5	70.1	0.83																	
Meteghan	Nowlans	Aug 30/16	NL-09			6	151.1	0.61																	
Meteghan	Nowlans	Aug 30/16	NL-09			6.5	121	0.83		130	37.7	11.1		4.8	3.73	<0	3.91	5.6	38.3					7.3	
Meteghan	Nowlans	Aug 30/16	NL-09			7	192.4	0.86																	
Meteghan	Nowlans	Aug 30/16	NL-09			0.25	79.9	0.675	40	86.9	33.2	9.9	12.3	0.097	0.43	<0.1	0.07	0.77	7.6		NSDOA			7.9	
Meteghan	Nowlans	Aug 30/16	NL-09			1	81	0.675													NSDOA				
Meteghan	Nowlans	Aug 30/16	NL-09			2	69.7	0.675													NSDOA				
Meteghan	Nowlans	Aug 30/16	NL-09			3	71.9	0.675													NSDOA				
Meteghan	Nowlans	Aug 30/16	NL-09			3.5	69.22	0.675	35	38	8.38	9.2	<10	0.147	0.488	0.01	0.06	0.49	8.8		NSDOA			7.3	
Meteghan	Nowlans	Aug 30/16	NL-09			4	90.41	0.675													NSDOA				
Meteghan	Nowlans	Aug 30/16	NL-09			5	127.8	0.675													NSDOA				
Meteghan	Nowlans	Aug 30/16	NL-09			6	133.8	0.675		99.7	7.75	6.9		7.4	7.98	<0.1	1.99	7.6	79		NSDOA			7.4	
Meteghan	Nowlans	Aug 30/16	NL-09			7		0.675													NSDOA				
Meteghan	Nowlans	Dec 20/13				0			75	110.6	26			1.090	1.063	0.44		3.29	21.9	7.6	ACER			7.6	
Meteghan	Nowlans	Aug 8/13				0				400.0	67.4			0.446	0.390	0.006		0.73	6.7	7.6	ACER				
Meteghan	Nowlans	Apr 29/13				0				26.0	37.6			0.344	0.324	0.21		0.90	9.6	7.3	ACER				
Meteghan	Nowlans	Aug 23/2011	NL-09								19.2	17		7.9	6.6	0.61	0.35	6.31			NSDOE				
Meteghan	Nowlans	Oct 18/09	NL-09				303		9.1	86		11.8		9.4	8.1	3.4		10.20	67.4	7.9	NSDOE				
Meteghan	Nowlans	Nov 26/10	NL-09				405		8.6	50	31	9.3	3	8.7	8.44	0.54	6.76	7.69	87.8	7.6	NSDOE				
Meteghan	Nowlans	Aug 18/08	NL-09			0	83.3	0.83	47	16		6.2		0.4	0.3	0.01		1.01	17	6.9	NSDOE				
Meteghan	Nowlans	Oct 18/09	NL-09			0	67.4	0.8	67.7	33		8.1		0.38	0.078	0.01		0.68	8.6	7.3	NSDOE				
Meteghan	Nowlans	Oct 18/09	NL-09			1.7	83.2			31		8.2		0.28	0.078	0.01		0.61	7.8	7.3	NSDOE				
Meteghan	Nowlans	Nov 26/10	NL-09			0	89.7	0.86	64.5	16	29	6.8	19.3	0.42	0.267	0.01	0.07	1.06	12.9	8.3	NSDOE				
Meteghan	Nowlans	Sep 27/83				0	65.4	1		6		6.4		0.004	0.007	0.01		0.64	7.7	6.75	NSTM BJ				
Meteghan	Nowlans	Nov 27/83				7.5	63.7			10		5		0.025	0.02	0.01		0.76		6.01	NSTM BJ				
Meteghan	Nowlans	Oct 18/09	NL-09			1	83.6		38.4	49		9.3		0.4	0.36	0.04		0.89	8.3	7.7	NSDOE				
Meteghan	Nowlans	Sep 26/10	NL-09				86.4		60	38	34.34	7.7	28	0.42	0.267	0.01	0.06	[illegible]	18.7	7.4	NSDOE				
Carleton	Houghton	Aug 24/17	AQ-PR2	266016.9	49:2679.57	0.25			61.8	87.7	2.72			0.134	0.053	<0.1	0.3	0.79			Dignac			4.8	26.8
Carleton	Houghton	Aug 24/17	AQ-PR-QCdup	266476.47	49:2677.97				46	123	2.72			0.129	0.057	<0.1	0.07	0.57			Dignac			4.5	30.4
Carleton	Houghton	Aug 24/17	DS-1	266903.03	49:2678.74	1.125		1	49.8	80.4	2.41			0.073	0.028	<0.1	0.01	0.41			Dignac			4.7	26.3
Carleton	Houghton	Aug 24/17	DS-1	266903.03	49:2678.74	0.5		1		203	7.81			0.431	0.07	<0.1	1.13	1.84			Dignac			7.1	
Carleton	Houghton	Aug 24/17	DS-1-0.25	266707.3	49:2677.3	0.25			24.1	88.6	0.99			0.077	0.01	<0.1	0.07	0.37			Dignac			4.9	9.33
Carleton	Houghton	August 22/16	HOLE2	266837	49:2511	0.25	49.6													6.22		Taken in western extreme of lake, [illegible]	32.6		
Carleton	Houghton	August 21/16	DS1	266304	49:2512.7	0.25	46.8	0.928			9									6.02	Bridging		31.2		
Carleton	Houghton	August 21/16	DS1	266304	49:2512.2	1.05		0.928	44.9	66.8	3.82			0.09	0.026	<0.1		0.29	7.2			Composite sample from 2.5 m and 1.0 m		6.5	
Carleton	Houghton	August 21/16	DS1	266304	49:2512.2	1.9	46.8	0.928			4									5.97	Bridging		31.85		
Carleton	Houghton	August 21/16	DS1	266304	49:2512.2	4.9	49.8	0.928		166	6.25			0.147	0.157	<0.1		0.97	9.8	6.47	Bridging		45.4	7	
Carleton	Houghton	August 17/16	DS1	266547	49:2479	0.25	53.3	0.93												6.63	John		33.1		
Carleton	Houghton	August 17/16	DS1	266542	49:2470	1	53.5	0.93	19	108	1.27			0.065	0.036	<0.1		0.4	2.4	6.35	John	Composite sample at 0.25 and 3 m	33.7		
Carleton	Houghton	August 17/16	DS1	266547	49:2479	2	52.4	0.93												6.01	John		33.1		
Carleton	Houghton	August 17/16	DS1	266542	49:2479	3	56.7	0.93												6.95	John	Chlorophyll data low. Not only [illegible], probably some sort of dilution [illegible]	39.45		
Carleton	Houghton	August 17/16	DS1	266542	49:2479	4	49.2	0.93												5.97	John		40.95		
Carleton	Houghton	August 17/16	DS1	266542	49:2479	5	51.7	0.93												6	John		43.5		
Carleton	Houghton	August 17/16	DS1	266542	49:2479	6	51.7	0.93												6.03	John		46.1		
Carleton	Houghton	August 17/16	DS1	266542	49:2479	7	56.1	0.93		290	10.2			0.479	0.363	<0.1		1.03	10.6	6.1	John		51.45		
Carleton	Houghton	August 18/16	DS1	266546	49:2478	0.25	46.1	0.6	44	143.2	18			0.067	0.037	<0.1		0.45	3.7	6.31	John		31.85		
Carleton	Houghton	August 18/16	DS1			1	46.1	0.6												6.3	John		31.85		
Carleton	Houghton	August 18/16	DS1			2	46.1	0.6												6.3	John		31.85		
Carleton	Houghton	August 18/16	DS1			3	46.1	0.6												6.26	John		31.85		
Carleton	Houghton	August 18/16	DS1			4	51.1	0.6												6.07	John		39		
Carleton	Houghton	August 18/16	DS1			5	47.4	0.6												5.97	John		38.35		
Carleton	Houghton	August 18/16	DS1			6	51.9	0.6												6.20	John		46.15		
Carleton	Houghton	August 18/16	DS1			6.5	53.3	0.6		3.46	11.3			0.144	0.054	<0.1		1.35	12.2	6.31	John		49.4		
Carleton	Houghton	October 29/16	DS1	266534	49:2472	0.25	37.1	0.82	4.7	19.7	2.01			0.098	0.079	0.12		0.92	3.4	5.99	John		33.6	6.4	
Carleton	Houghton	October 29/16	DS1			1	37.1	0.82												5.98	John		33.6		
Carleton	Houghton	October 29/16	DS1			2	37.1	0.82												5.98	John		33.6		
Carleton	Houghton	October 29/16	DS1			3	37.1	0.82												5.97	John		33.6		
Carleton	Houghton	October 29/16	DS1			4	37.1	0.82												5.97	John		33.6		
Carleton	Houghton	October 29/16	DS1			5	36.9	0.82												5.97	John		33.6		
Carleton	Houghton	October 29/16	DS1			6	36.9	0.82												5.97	John		33.6		
Carleton	Houghton	October 29/16	DS1			7	36.9	0.82												5.97	John		33.6		
Carleton	Houghton	October 29/16	DS1			8	36.9	0.82												5.96	John		33.6		
Carleton	Houghton	August 12/13	AQ-01	266701	49:2476	0.25				161.6	1.77			0.066	0.032	<0.1		0.62	3.6	6.7	John		33.6	6.7	
Carleton	Houghton	August 12/13	DS1	266566	49:2491	0.25	61.7	0.63	7	161.7	1.48			0.046	0.079	<0.1		0.36	3.4	6.07	John		36.1	6.7	
Carleton	Houghton	August 12/13	DS1			1	61.1	0.63												6.06	John		36.1		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU's)	Turbidity (NTU's)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phosphorus (ug/L)
Carleton	Haughton	August 12/13	D51			7	60.7	0.63												6.02	John		36.1		
Carleton	Haughton	August 12/13	D51			3	50.6	0.63												5.71	John		36.4		
Carleton	Haughton	August 12/13	D51			4	48.3	0.63												6.1	John		46.8		
Carleton	Haughton	August 12/13	D51			5	51.5	0.63												6.03	John		48.1		
Carleton	Haughton	August 12/13	D51			6	59.1	0.63												6.18	John		53.3		
Carleton	Haughton	August 12/13	D51			7	62.2	0.63		270.8	40.6			0.074	0.172	<0.01		7.19	12.6	6.71	John		67.2	7.2	
Carleton	Haughton	July 8/13	D51	266531	4912671	0.75	55.6	0.68												6.15	John		35.75		
Carleton	Haughton	July 8/13	D51			0.825		0.68	15	180.7	0.75			0.069	0.032	0.04		0.68	2.8		John	Composite from 2.5 and 1.4 m. at 11.10		6.4	
Carleton	Haughton	July 8/13	D51			1	53.7	0.68												6.09	John		35.75		
Carleton	Haughton	July 8/13	D51			1.4	53.3	0.68												6.69	John		35.1		
Carleton	Haughton	July 8/13	D51			3	49.1	0.68												6.59	John		34.45		
Carleton	Haughton	July 8/13	D51			3	49.2	0.68												6.52	John		35.1		
Carleton	Haughton	July 8/13	D51			4	47.6	0.68												5.66	John		39.65		
Carleton	Haughton	July 8/13	D51			5	49.6	0.68												5.68	John		41.4		
Carleton	Haughton	July 8/13	D51			6	54.5	0.68												6.26	John		49.6		
Carleton	Haughton	July 8/13	D51			7	56.9	0.68		248.5	6.94			0.341	0.305	<0.01		1.39	10.7	6.11	John		62.65	7.1	
Carleton	Haughton	July 8/13	D51			8	58.3	0.68												6.21	John		53.95		
Carleton	Haughton	May 7/13	H-D51	266566	4911478	0.5	51.4	1.07												6.53	John		39		
Carleton	Haughton	May 7/13	H-D51			1	51.4	1.07												6.55	John		39		
Carleton	Haughton	May 7/13	H-D51			1.375			9.5	156.7	1.66			0.53	0.01	<0.01		0.65	3	6.6	John	Composite from 0.5 and 2.1 m.		6.6	
Carleton	Haughton	May 7/13	H-D51			2	49	1.07												6.2	John		39		
Carleton	Haughton	May 7/13	H-D51			3	53.9	1.07												5.70	John		39.65		
Carleton	Haughton	May 7/13	H-D51			4	53.8	1.07												6.65	John		39.65		
Carleton	Haughton	May 7/13	H-D51			5	57.5	1.07												5.62	John		39		
Carleton	Haughton	May 7/13	H-D51			6	47.3	1.07												6.6	John		39		
Carleton	Haughton	May 7/13	H-D51			7	47.6	1.07												5.66	John		39.65		
Carleton	Haughton	Oct 1/2009	H-AQ01				54.4		6.3	139		13.5		0.08	0.064	0.22		0.84	7	6.1	NSDOE				
Carleton	Haughton	Oct 1/2009	H-AQ01				55		7.9	136		13.5		0.09	0.047	0.22		0.88	7.4	6.2	NSDOE				
Carleton	Haughton	Sept 26/10	H-AQ01											0.06		0.21		0.85			NSDOE				
Carleton	Haughton	Sept 26/10	H-AQ01				44.4		6	58	1.66	6.3	1.5	0.043	0.03	0.01	0.09	0.47	3	6.8	NSDOE				
Carleton	Haughton	Aug 21/2011	H-AQ01							64.7		8.3		0.073	0.006	0.03	0.01	0.99			NSDOE				
Carleton	Haughton	Oct 1/2009	H-AQ01				63.9		11.1	224		27.5		0.17	0.119	0.01		0.63	7.8	6.7	NSDOE				
Carleton	Haughton	Sept 26/10	H-AQ01				122		0.7	9.8	1.6	1.4	1.3	0.37	0.006	1.9	0.01	1.86	21.3	7.4	NSDOE				
Carleton	Haughton	Aug 21/2008	H-D51			0	47.9	1.3	1.5	40		7.4		0.069	0.034	0.03		0.57	3.6	6.2	NSDOE				
Carleton	Haughton	Aug 21/2011	H-D51			0		1.4	7.1	89		10.7		0.043	0.018	0.04	0.14	0.66			NSDOE				
Carleton	Haughton	Aug 21/2011	H-D51			4			7.1	187		10.4		0.39	0.33	0.01	0.98	1.67			NSDOE				
Carleton	Haughton	Oct 1/2009	H-D51			0	55.3	0.4	3.8	134		15.1		0.076	0.057	0.31		0.86	7.1	6.7	NSDOE				
Carleton	Haughton	Oct 1/2009	H-D51			4.3	55.4			127		13.1		0.079	0.05	0.22		0.86	7.1	6.2	NSDOE				
Carleton	Haughton	Sept 01/83				0	44.5	5		30		7.4		0.017	0.007	0.01		0.029	7.5	8.81	NSDLBJ				
Carleton	Haughton	Sept 01/83				5	50.7			55		7.3		0.011	0.001	0.01		0.041	7.3	8.11	NSDLBJ				
Carleton	Haughton	Sept 01/83				7	53			53		7		0.046	0.001	0.027		0.046	8.7	8.11	NSDLBJ				
Carleton	Haughton	Sept 26/10	H-D51			0	63.5	1.75	13	58	1.17	7.9	2	0.05	0.073	0.01	0.03	0.55	2.9	6.8	NSDOE				
Carleton	Haughton	Aug 21/2011	H-D51							73.4		9		0.072	0.006	0.01	0.09	0.38			NSDOE				
Carleton	Haughton	Oct 1/2009	H-D51			0	56.2		0.6	123		14		0.049	0.077	0.014		0.58	2.9	6.4	NSDOE				
Carleton	Haughton	Sept 26/10	H-D51				63.8		2.5	43	1.06	7.6	1.5	0.043	0.006	0.03	0.03	0.3	3.9	6.9	NSDOE				
Carleton	Placidas	Aug 29/17	D51	266165	4908799	0.75	58.4	1	4.15	95.8	2.57	10.1	<12.5	0.439	0.127	<0.01	0.02	0.68	6.6		NSDEA	Lary Bowen and Andrew of 16.40		6.5	5.4
Carleton	Placidas	Aug 29/17	D51	266165	4908799	1	57.1	1													NSDEA				
Carleton	Placidas	Aug 29/17	D51	266165	4908799	2	56.7	1													NSDEA				
Carleton	Placidas	Aug 29/17	D51	266165	4908799	3	53.7	1													NSDEA				
Carleton	Placidas	Aug 29/17	D51	266165	4908799	4	53.7	1													NSDEA				
Carleton	Placidas	Aug 29/17	D51	266165	4908799	5	79.3	1	3.87	97.3	2.53	10.5	<12.5	0.416	0.327	<0.01	0.01	0.46	6		NSDEA			6.8	15
Carleton	Placidas	Aug 29/17	D51	266165	4908799	6	79.3	1		97.3	2.53	10.5	<12.5	0.416	0.327	<0.01	0.01	0.46	6		NSDEA			6.8	
Carleton	Placidas	Aug 29/17	D51	266165	4908799	6	87.1	1													NSDEA				
Carleton	Placidas	Aug 22/17	D51	266303.31	4909188.01	0.25	96	0.6	4.54	135	2.76			0.73	0.477	0.39	0.38	1.47		5.61	Lingenfelter			7.0	4.27
Carleton	Placidas	Aug 22/17	D51	266098.26	4908775.89	0.25	48	3.375												5.95	Lingenfelter				
Carleton	Placidas	Aug 22/17	D51	266098.26	4908775.89			3.375	9.78	98.5	7.99			0.318	0.169	<0.01	0.01	0.46			Lingenfelter			6.3	6.37
Carleton	Placidas	Aug 22/17	D51	266098.26	4908775.89	1.3	47	3.375												5.76	Lingenfelter				
Carleton	Placidas	Aug 22/17	D51	266098.26	4908775.89	3.5	50	3.375		106	8.72			0.461	0.178	<0.01	0.04	0.54		5.85	Lingenfelter			6.9	
Carleton	Placidas	Aug 22/17	D51	266038.49	4908488.25	0.25	64		9.3	103	3.3			0.62	0.51	<0.01	0.01	0.51		6.46	Lingenfelter			6.8	7.72
Carleton	Placidas	Aug 30/16	D51			0.25	60.7	1.4	17.7	66.7	3.15	7.7	<8.3	0.471	0.37	<0.01	0.02	0.38	4.3					6.9	
Carleton	Placidas	Aug 30/16	D51			1	60.6	1.4																	
Carleton	Placidas	Aug 30/16	D51			2	60.4	1.4																	
Carleton	Placidas	Aug 30/16	D51			2.8	69.4	1.4	17.4	63.8	2.99	7.9	<8.3	0.427	0.376	<0.01	0.02	0.38	4.6					6.9	
Carleton	Placidas	Aug 30/16	D51			3	60.7	1.4																	
Carleton	Placidas	Aug 30/16	D51			4	61.4	1.4																	
Carleton	Placidas	Aug 30/16	D51			5	69.1	1.4																	
Carleton	Placidas	Aug 30/16	D51			6.5	80.5	1.4		148	19.4	10.3		3.02	7.76	0.01	0.83	1.47	17.1					7.2	
Carleton	Placidas	Aug 30/16	D51			6	118.4	1.4																	
Carleton	Placidas	Aug 30/16	D51			6.5	137	1.4																	
Carleton	Placidas	Aug 26/15	D51			0.25	66.1	0.95	22	126	3.3	10.7	<10	0.498	0.397	<0.01	0.03	0.6	3.8		NSDEA			6.8	
Carleton	Placidas	Aug 26/15	D51			1	56	0.95													NSDEA				
Carleton	Placidas	Aug 26/15	D51			2	63.7	0.95													NSDEA				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU's)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from data)	Phaeophytin (ug/L)
Carleton	Macadam	Aug 28/16	QS1			5	9.3	0.95	0	259	17.3	16	10	1.3	1.03	0.47	1.09	2.7	9.4		MSDPA			7	
Carleton	Macadam	Aug 28/16	QS1			6	79	0.95													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			5	84.3	0.95													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			6	106.3	0.95													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			6.5	113.2	0.95		291	4.59	17.1		0.82	0.06	<0.01	1.96	2.8	22.1		MSDPA			7.3	
Carleton	Macadam	Aug 28/16	QS1			0		0.625	32	149.5	3.22	16.7	<3	0.806	0.015	<0.01	0.03	0.57	6.2		MSDPA			7	
Carleton	Macadam	Aug 28/16	QS1			1		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			2		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			3		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			4		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			5		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			5.5		0.625	39	306.6	7.39	13	3	0.46	0.02	<0.01	2.39	3.22	26.7		MSDPA			7.3	
Carleton	Macadam	Aug 28/16	QS1			6		0.625													MSDPA				
Carleton	Macadam	Aug 28/16	QS1			6.5		0.625													MSDPA				
Carleton	Macadam	Oct 20/13				0		0.4	6.9	236.5	4.22			0.715	0.006	0.7		1.97	8.3	7.3	ACER			4.7	
Carleton	Macadam	Oct 20/13				6		0.4		236.5	6.10			0.749	0.009	0.7		1.98	6.7	6.6	ACER			6.6	
Carleton	Macadam	Aug 4/13				0	124	0.4	5.0	127.9				0.793	0.766	0.52		1.34	5.0	6.0	ACER				
Carleton	Macadam	Aug 4/13				5	88.4	0.4		293.9				2.600	2.600	0.36		1.68	13.9	7.1	ACER				
Carleton	Macadam	Apr 29/13				0	77.1	0.8	30.0	164.3				0.307	0.219	0.73		1.34	9.9	6.7	ACER				
Carleton	Macadam	Oct 21/09	PLAt-Ot1-A				38.1		9.7	187		19.8		0.63	0.52	1.75		2.0	2.7	6	MSDOP				
Carleton	Macadam	Oct 21/09	PLAt-Ot1-B				79.1		9.7	184		19.4		0.61	0.58	1.76		2.57	7.6	6.1	MSDOP				
Carleton	Macadam	Aug 22/10	PLAt-Ot1				19.4	0.9			2.27								6.1	6.8	MSDOP				
Carleton	Macadam	Oct 21/09	PLAt-Ot1				67		9.7	187		19.4		0.61	0.56	1.78		2.55	3	6.7	MSDOP				
Carleton	Macadam	Sep 27/10	PLAt-Ot1				108		9.5	108	3.02	17.8		0.94	0.078	1.31	0.76	2	5	6.8	MSDOP				
Carleton	Macadam	Aug 18/08	PLAt-Ot1			0	74.7	1.2	20	48		9.9		0.74	0.58	0.36		1.69	3.4	6.5	MSDOP				
Carleton	Macadam	Aug 18/08	PLAt-Ot1			7	87.8			207		16.7		0.7	3.44	0.03		2.95	7.4	6.3	MSDOP				
Carleton	Macadam	Aug 22/10	PLAt-Ot1			0			2.6	117		13.8		0.99	0.786	0.68	0.65	1.83			MSDOP				
Carleton	Macadam	Aug 22/10	PLAt-Ot1			5				137.7		16.5		2.1	1.79	0.16	2.39	4.87			MSDOP				
Carleton	Macadam	Oct 21/09	PLAt-Ot1			0	78.6	0.45	9.6	190		18.8		0.73	0.661	1.1		1.33	7.8	6.5	MSDOP				
Carleton	Macadam	Oct 21/09	PLAt-Ot1			6.8	77.3			207		18.8		0.7	0.68	1.1		2.8	7.9	6.6	MSDOP				
Carleton	Macadam	Sep 27/10	PLAt-Ot1			0	87.5	0.7	15.5	90	7.98	10.6	7.5	0.87	0.706	0.67	0.77	1.33	4.7	6.9	MSDOP				
Carleton	Macadam	Sep 27/10	PLAt-Ot1			5	89.5			97	10	11	9.2	0.83	0.652	0.54	0.73	1.78	5.7	6.9	MSDOP				
Carleton	Macadam	Aug 22/10	PLAt-Ot1				179				3.8								16.9	7.7	MSDOP				
Carleton	Macadam	Oct 21/09	PLAt-Ot1				74.2		1	87		18.3		0.84	0.67	0.95		2.38	7.9	6.3	MSDOP				
Carleton	Macadam	Sep 27/10	PLAt-Ot1				83		7.8	84	4.75	10.3	5.6	0.71	0.348	0.29	0.82	0.81	4.6	6.9	MSDOP				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	0.75	44.3	2.5	0.27	38.9	0.61	5.7	<0.5	0.013	0.004	<0.01	0.07	0.3	3.3		MSDPA	Only Screen and Analysis at 12.45		6.8	3.66
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	1	45.6	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	2	45.7	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	3	45.1	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	4	45.1	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	5	43	2.5	0.99	37.7	0.66	5.9	<2.5	0.012	0.004	<0.01	0.02	0.29	3.3		MSDPA			6.8	3.39
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	6	44.8	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	7	44.5	2.5		45.1	7.09	5.6	<2.5	0.016	0.006	0.04	0.05	0.29	3.3		MSDPA			6.8	
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	8	42.2	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	9	41.8	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	10	41.7	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	11	41.9	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	12	42.4	2.5													MSDPA				
Carleton	Perculpine	Aug 29/17	QS1	765304	4906534	13	42.7	2.5													MSDPA				
Carleton	Perculpine	Aug 22/17	Pn1	766172.74	4906678.86	0.75	56	0.875	3.87	212	4.05			0.197	0.096	0.06	0.06	0.86		5.6	Stantec			6.8	6.63
Carleton	Perculpine	Aug 22/17	Pn1	766172.74	4906678.86	9.8	57	0.875												5.7	Stantec				
Carleton	Perculpine	Aug 22/17	Pn1	766172.74	4906678.86	0.75	62	0.875												5.86	Stantec				
Carleton	Perculpine	Aug 22/17	Pn1	766172.74	4906678.86			0.875	2.61	44.7	1.09			0.017	0.013	<0.01	<0.01	0.79			Stantec			6.9	3.99
Carleton	Perculpine	Aug 22/17	Pn2	766173.46	4906678.61	0.75	68	0.875												4.13	Stantec				
Carleton	Perculpine	Aug 22/17	Pn2	766173.46	4906678.61	17	66	0.875		93	10.4			0.065	0.034	0.05	0.15	0.46		4.11	Stantec			6.9	
Carleton	Perculpine	Aug 22/17	Pn2	766173.46	4906678.61	0.75	56		3.73	25.9	0.91			0.013	0.003	<0.01	<0.01	0.29		4.21	Stantec			6.9	2.27
Carleton	Perculpine	Aug 30/16	QS1			0.75	42	2.3	4.84	29.7	0.8	4.9	<2.3	0.017	0.004	<0.01	0.02	0.29	3.1					6.8	
Carleton	Perculpine	Aug 30/16	QS1			1	42	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			2	42.8	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			3	42.8	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			4	42.8	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			4.9	41.8	2.3	1.86	31.4	0.96	4.7	<2.3	0.019	0.007	<0.01	0.01	0.22	3.1					6.8	
Carleton	Perculpine	Aug 30/16	QS1			5	42.2	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			6	42.4	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			7	42.4	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			8	42.4	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			8.5	42.4	2.3		27.6	1.15			0.016	0.014	<0.01	0.02	0.64	3.8					7	
Carleton	Perculpine	Aug 30/16	QS1			9	51	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			9.5	56.9	2.3																	
Carleton	Perculpine	Aug 30/16	QS1			0.25	42.6	1.9	7.3	33.2	0.98	5.9	<1.5	0.016	0.003	<0.01	<0.01	0.76	7.6		MSDPA			6.7	
Carleton	Perculpine	Aug 30/16	QS1			5	42.7	1.9													MSDPA				
Carleton	Perculpine	Aug 30/16	QS1			7	43.6	1.9													MSDPA				
Carleton	Perculpine	Aug 30/16	QS1			9	44.3	1.9													MSDPA				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU's)	Turbidity (NTU's)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDT)	pH (from lab)	Phaeophytin (ug/L)
Carleton	Farquhar	Aug 28/16	D31			0	449	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			5	484	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			6	511	1.9	3.3	107	4.68	6	<10	0.073	0.008	<0.1	0.07	0.77	5.9		NSDPA			4.9	
Carleton	Farquhar	Aug 28/16	D31			7	487	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			8	474	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			9	498	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			10	507	1.9													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			11	521	1.9		103	4.19	5.6		0.067	0.015	0.14	0.15	0.61	5.4		NSDPA			4.9	
Carleton	Farquhar	Aug 28/16	D31			0		1.63	4.9	112	4.9	7.9	<5	0.014	0.005	<0.1	0.07	0.78	3.3		NSDPA			4.8	
Carleton	Farquhar	Aug 28/16	D31			1		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			2		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			3		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			4		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			5		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			6		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			7		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			8		1.63	3.8	60.9	1.16	5.3	<3	0.042	0.010	0.14	0.05	0.49	3.4		NSDPA			4.8	
Carleton	Farquhar	Aug 28/16	D31			9		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			10		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			11		1.63													NSDPA				
Carleton	Farquhar	Aug 28/16	D31			11.5		1.63		111.5	6.44	6.8		0.058	0.038	0.17	0.21	0.61	5		NSDPA			7	
Carleton	Farquhar	Aug 28/16	D31			12		1.63													NSDPA				
Carleton	Farquhar	Oct 28/13	D32			0		1.0	7.8	106.1	1.03			0.027	0.007	0.06		0.43	3.6	6.0	ACIW				
Carleton	Farquhar	Oct 28/13	D32			12		1.0		108.8	1.03			0.024	0.007	0.06		0.47	3.9	6.0				4.8	
Carleton	Farquhar	Aug 6/13	D32			0	527	0.6	7.0	103.3				0.037	0.014	0.02		0.42	3.9	6.9	ACIW				
Carleton	Farquhar	Aug 6/13	D32			11	658			88.5				0.044	0.011	0.16		0.50	4.6	6.9	ACIW				
Carleton	Farquhar	Apr 29/13	D32			0	693	2.6	3.2	96.7				0.013	0.003	0.07		0.32	3.6	6.7	ACIW				
Carleton	Farquhar	Aug 16/2011	FQRI-D31							118.8		7.8		0.3	0.002	0.08	0.07	0.53			NSDOE				
Carleton	Farquhar	Oct 27/09	FQRI-D31				49		0.3	82		6.4		0.079	0.016	0.1		0.53	3.7	6	NSDOE				
Carleton	Farquhar	Mar 27/10	FQRI-D31				67		0.9	116	5.9	8.6	5.2	0.1	0.1	0.1	0.01	0.52	5.4	6.9	NSDOE				
Carleton	Farquhar	Aug 13/2008	FQRI-D31			0	519	2.5	7.9	75		6.6		0.017	0.005	0.01		0.37	3	6.6	NSDOE				
Carleton	Farquhar	Aug 13/08	FQRI-D31			6	59.8			87		6.3		0.021	0.003	0.01		0.4	3.3	6.3	NSDOE				
Carleton	Farquhar	Aug 16/2011	FQRI-D32			0		0.9	3.4	44.9		6.7		0.014	0.003	0.01	0.06				NSDOE				
Carleton	Farquhar	Aug 16/2011	FQRI-D32			10				72.3		6.8				0.08	0.07				NSDOE				
Carleton	Farquhar	Oct 27/09	FQRI-D31			0	501		1.5	75		8.4		0.034	0.011	0.04		0.46	3	6.6	NSDOE				
Carleton	Farquhar	Oct 27/09	FQRI-D31			0	497	1.2	0.9	77		8.6		0.033	0.017	0.07		0.41	2.6	6.6	NSDOE				
Carleton	Farquhar	Oct 27/09	FQRI-D31			12.7	498			79		8.4		0.033	0.017	0.07		0.4	3	6.7	NSDOE				
Carleton	Farquhar	Mar 27/10	FQRI-D32			0	513		4.5	26		29	1.31	5.6	1.7	0.03	0.01	0.63	0.25	3.1	6.8	NSDOE				
Carleton	Farquhar	Mar 27/10	FQRI-D32			10.3	524			0.5		0.3	3.6	3.6			0.013	0.01	0.03	0.24	3.6	6.8	NSDOE				
Carleton	Farquhar	Aug 16/2011	FQRI-D31							61.7		6		0.014	0.005	0.01	0.04	0.31							
Carleton	Farquhar	Oct 27/09	FQRI-D31				49		1.6	78		6.3		0.031	0.014	0.04		0.4	2.6	6.6	NSDOE				
Carleton	Farquhar	Mar 27/10	FQRI-D31				52		1	33	0.65	6.4	1.2	0.019	0.006	0.01		0.25	3.3	6.7	NSDOE				
Carleton	Mississippi	Aug 21/17	WS-D1	266150.09	4899263.51	0.25		0.875	1.55	199	1.28			0.114	0.173	0.03	0.03	0.44		4.19	Stantec			4.0	3.71
Carleton	Mississippi	Aug 21/17	WS-D1	266150.07	4899263.51	0.75	67	0.875												4.15	Stantec				
Carleton	Mississippi	Aug 21/17	WS-D2	266367.91	4899258.84	0.25	60		0.76	380	0.97			0.076	0.011	<0.1	0.07	0.84		3.93	Stantec			4.6	1.66
Carleton	Mississippi	Aug 21/17	WS-D3	266467.82	4899553.89	0.25	43		2.23	79.1	1.3			0.043	0.029	<0.1	0.07	0.43		3.75	Stantec			4.8	3.31
Carleton	Mississippi	Aug 21/17	WS-D3	266467.87	4899553.89	0.49	43													3.72	Stantec				
Carleton	Mississippi	Aug 21/17	WS-D4	266749.96	4899157.37	0.75	72		1.06	514	2.72			0.033	0.004	<0.1	0.1	1.34		3.43	Stantec			4.3	3.57
Carleton	Mississippi	Aug 21/17	WS-D5	265258	4896791	0.75	67	0.625												6	Stantec				
Carleton	Mississippi	Aug 21/17	WS-D5	265258	4896791		67	0.625	4.63	168	0.77			0.084	0.007	<0.1	0.07	0.44		5.01	Stantec		4.3		6.34
Carleton	Mississippi	Aug 21/17	WS-D5	265258	4896791	4.5	67	0.625		164	1.09			0.176	0.093	<0.1	0.03	0.44		5.01	Stantec		4.2		
Carleton	Mississippi	Aug 21/17	WS-D5	265258	4896791	4.5	68	0.625		161	1.17			0.184	0.094	<0.1	0.03	0.46		4.93	Stantec		4.1		
Carleton	Mississippi	Aug 21/17	WS-D6	265257.97	4895321.67	0.25	67	0.875	4.78	186	0.81			0.131	0.067	<0.1	0.07	0.46		5.04	Stantec			4.3	4.16
Carleton	Mississippi	Aug 21/17	WS-D6	265257.97	4895321.67	7	68	0.875												5.08	Stantec				
Carleton	Mississippi	Aug 22/16	WDN-Dock2	264785	4896588	0.25	38													6.75		Collected from boat launch at 10.05 A.M. overcast	25.35		
Carleton	Mississippi	Aug 21/16	WDN-D51	265299	4896317	0.75	37.5	1.67			7									6	Enviro		24.7		
Carleton	Mississippi	Aug 21/16	WDN-D51	265299	4896317	0.95		1.67	3.9	116	2.49			0.154	0.144	0.06		0.51	1.4			Composite from 25 m and 5.16 m		6.1	
Carleton	Mississippi	Aug 21/16	WDN-D51	265299	4896317	3.14	37.1	1.67												5.1	Enviro		25.35		
Carleton	Mississippi	Aug 21/16	WDN-D51	265299	4896317	3.65	46	1.67		117	2.34			0.154	0.104	0.06		0.53	1.2	5.3	Enviro		47.9	6.1	
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	0.75	37.7	0.6												6.04	Jenn		24.7		
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	0.7	37.5	0.6	11	162	1.36			0.13	0.111	<0.1		0.37	1.8	6	Jenn	Composite sample from 25 and 1.2 m			
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	5	37.3	0.6												6	Jenn		24.7		
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	1.2	37.3	0.6												5.95	Jenn		24.7		
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	2	36.9	0.6												5.95	Jenn		24.7		
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	3	36.1	0.6												5.76	Jenn		24.7		
Carleton	Mississippi	Aug 17/16	WDN-D51	265281	4896267	4	36.6	0.6		197	1.8			0.129	0.125	<0.1		0.59	1.6	5.72	Jenn		25.35		
Carleton	Mississippi	May 18/16	WDN-D51	265258	4896791	0.25	38.1	0.9	7.9	97.6	0.73			0.043	0.036	<0.1		0.22	<1	5.66	Jenn		23.75		
Carleton	Mississippi	May 18/16	WDN-D51			1.1	39.1	0.9												5.64	Jenn		23.75		
Carleton	Mississippi	May 18/16	WDN-D51			2	39	0.9												5.45	Jenn		23.75		
Carleton	Mississippi	May 18/16	WDN-D51			3	37.7	0.9												5.42	Jenn		23.75		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU)	Turbidity (NTU)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from field)	Phosphorus (ug/L)
Carleton	Hawthorn	Aug 18/14	WHM-OS1	266301	4894261	0.25	34.7	0.33	13	304.1	8.14			0.187	0.14	<0.01		0.84	7.1	6.64	John		24.05		
Carleton	Hawthorn	Aug 18/14	WHM-OS1			1	34.7	0.33												6.64	John		24.05		
Carleton	Hawthorn	Aug 18/14	WHM-OS1			2	34.7	0.33												6.64	John		24.05		
Carleton	Hawthorn	Aug 18/14	WHM-OS1			3	34.6	0.33												6.64	John		24.05		
Carleton	Hawthorn	Oct 28/13	WHM-OS1	266307	4894211	0.25	32.4	0.63	0.3	238.4	1.9			0.171	0.151	0.12		0.66	7.3	6.58	John		29.25	6	
Carleton	Hawthorn	Oct 28/13	WHM-OS1			1	32.4	0.63												6.59	John		29.25		
Carleton	Hawthorn	Oct 28/13	WHM-OS1			2	32.4	0.63												6.59	John		29.25		
Carleton	Hawthorn	Oct 28/13	WHM-OS1			3	32.3	0.63												6.58	John		29.25		
Carleton	Hawthorn	Oct 28/13	WHM-OS1			4	32.4	0.63												6.59	John		29.25		
Carleton	Hawthorn	Aug 12/13	WHM-OS1	266320	4894271	0.25	38.8	0.46	1.4	310.6	1.7			0.16	0.136	0.01		0.68	1.7	6.68	John		26.65	6.9	
Carleton	Hawthorn	Aug 12/13	WHM-OS1			1	38.8	0.46												6.68	John		26.65		
Carleton	Hawthorn	Aug 12/13	WHM-OS1			2	39	0.46												6.68	John		27.3		
Carleton	Hawthorn	Aug 12/13	WHM-OS1			3	38.7	0.46		257.3	1.97			0.174	0.144	0.02		0.68	1.7	6.64	John		26.65	6.9	
Carleton	Hawthorn	Aug 12/13	WHM-OS1			4		0.46																	
Carleton	Hawthorn	July 8/13	WHM-OS1	266289	4894302	0.25	41	0.63												6.3	John		26.65		
Carleton	Hawthorn	July 8/13	WHM-OS1			0.725		0.63	8.7	276.2	0.82			0.111	0.097	0.06		0.69	<1.0		John	Composite sample from 0.25 and 1.2 m, collected at 0920 A M		6.4	
Carleton	Hawthorn	July 8/13	WHM-OS1			1	40.4	0.63												6.77	John		26		
Carleton	Hawthorn	July 8/13	WHM-OS1			2	36.6	0.63												6.83	John		25.35		
Carleton	Hawthorn	July 8/13	WHM-OS1			3	35.9	0.63		273.7	0.81			0.125	0.097	0.02		0.69	<1	6.07	John		25.35	6.4	
Carleton	Hawthorn	July 8/13	WHM-OS1			4	35	0.63												6.07	John		25.35		
Carleton	Hawthorn	July 8/13	WHM-OS1																						
Carleton	Hawthorn	May 7/13	WHM-OS1	266276	4894321	0.5	36.8	0.63	1.7	126	1.68			0.046	0.024	<1		0.3	1.7	6.7	John		29.25	6.9	
Carleton	Hawthorn	May 7/13	WHM-OS1			1	36.8	0.63												6.67	John		29.25		
Carleton	Hawthorn	May 7/13	WHM-OS1			2	36.6	0.63												6.63	John		29.25		
Carleton	Hawthorn	May 7/13	WHM-OS1			3	35.6	0.63												6.6	John		28.6		
Carleton	Pair	Oct 15/17	PARL-OS1			0.975		0.86	3.61	165	1.34			0.065	0.029	<0.1	0.02	0.42			MEDA	Composite collected by Wayne Britton from 0.7 and 2.5 m overall		6	3.99
Carleton	Pair	Aug 30/17	PARL-PHA	266639.08	4884884.49	0.75	42	0.875	1.08	212	1.77			0.06	0.026	<0.1	0.03	0.58		4.03	Stantec			6.2	3.71
Carleton	Pair	Aug 30/17	PARL-PHA	266639.08	4884884.49	1.55	47	0.875												4.04	Stantec				
Carleton	Pair	Aug 30/17	PARL-PHB	267634.99	4884644.7	0.75	38		1.03	216	1.5			0.08	0.007	<0.1	0.02	0.61		3.68	Stantec			4.9	3.49
Carleton	Pair	Aug 30/17	PARL-PHC	268328.6	4884424.79	0.75	46		0.31	179	1.09			0.07	0.004	<0.1	0.03	0.47		3.41	Stantec			4.7	0.8
Carleton	Pair	Aug 30/17	PARL-OS1	267367.99	4884077.23	0.75	46	0.875												5.1	Stantec		3.6		
Carleton	Pair	Aug 30/17	PARL-OS1	267367.99	4884077.23			0.875													Stantec				
Carleton	Pair	Aug 30/17	PARL-OS1	267367.99	4884077.23	2	45	0.875												5.03	Stantec		4.2		
Carleton	Pair	Aug 30/17	PARL-OS1	267367.99	4884077.23	1.8	53	0.875		174	1.53			0.063	0.044	<0.01	0.01	0.4		5.84	Stantec		4.2	4.3	
Carleton	Pair	Aug 30/17	PARL-OS1	267378.08	4884437.75	0.75	45	1.5	2.78	113	1.4			0.06	0.04	<0.1	0.01	0.34		4.76	Stantec			6.2	4.16
Carleton	Pair	Aug 30/17	PARL-OS1			1.9	45	1.5												4.96	Stantec				
Carleton	Pair	May 7/17	PARL-OS1	hot issues		1.215		1.175	2.75	64.6	1.3			0.032	0.018	<0.1	0.01	0.26				Composite collected at 0.25 m and 2.4 m by Wayne Britton and Amanda Carlson at 1:10 P M. 50 mm rain in previous 12 hours		6	2.96
Carleton	Pair	Oct 16/16	PARL-OS1	hot issues		1.125		1	4.63	71	1.77			0.062	0.036	<0.1		0.32	1.1			Composite collected at 0.25 m and 2 m by Wayne Britton and Amanda Carlson at 10:20 A M		6	6.43
Carleton	Pair	Aug 22/16	PARL-Way1	266940	4886061	0.25	35.8													6		On shore, north to Wayne Britton's, overcast. 9:40 A M	24.09		
Carleton	Pair	Aug 21/16	PARL-PHA			0.25				71.8	2.64			0.06	0.025	<0.1		0.36	7.3			Collected from Carleton inlet, ortho-PO4 rechecked at 0.042 mg/l		6.2	
Carleton	Pair	Aug 21/16	PARL-PHC			0.25				71.2	2.3			0.063	0.027	0.02		0.38	1.6			Collected from Hawthorn Corner, Ortho-PO4 rechecked at 0.053 mg/l		6.6	
Carleton	Pair	Aug 21/16	PARL-OS1			0.75				68.3	2.19			0.038	0.008	<0.1		0.34	1.6			Collected from center		6.3	
Carleton	Pair	Aug 21/16	PARL-OS1	hot issues		1.675		1.35	13.7	67.7	2.71			0.055	0.022	<0.1		0.36	1.3			Composite collected at 0.25 m and 2.7 m		6.3	
Carleton	Pair	Aug 21/16	PARL-OS1	hot issues		1.1		1.35		74.2	2.92			0.049	0.039	0.02		0.4	1.9					6.3	
Carleton	Pair	May 1/16	PARL-OS1	hot issues		0.25		1													John	Composite collected by Wayne Britton from 0.25 m and 3 m			
Carleton	Pair	May 1/16	PARL-OS1	hot issues		1.125		1	11	90.5	1.19			0.032	0.011	<0.1		0.29	<1.0			Composite collected by Wayne Britton from 0.25 m and 3 m		6.7	
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	0.25	29.8	0.8												5.85	John		36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	1	29.9	0.8	7.3	156	1.53			0.067	0.043	0.01		0.4	1.7	5.83	John	Composite from 0.25 and 1.6 m.	36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	2	29.9	0.8												5.81	John		36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	3	29.9	0.8												5.8	John		36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	4	29.9	0.8												5.78	John		36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	5	29.9	0.8												5.79	John		36		
Carleton	Pair	Oct 20/15	PARL-OS1	267424	4885977	6	29.9	0.8												5.77	John		36		
Carleton	Pair	August 30/15	PARL-OS1	267393	4885927	0.25	37	1.6												6.64	John		34.05		
Carleton	Pair	August 30/15	PARL-OS1	267393	4885927	1	37	1.6												6.39	John		34.05		
Carleton	Pair	August 30/15	PARL-OS1	267393	4885927	2	36.8	1.6	7.8	123	1.64			0.075	0.047	<0.1		0.61	1.6	6.26	John	Composite sample from 0.25 and 1.6 m	34.05		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (ug/L)
Carleton	Fair	August 20/14	PARL-051	267393	4883927	3	36.4	1.8												6.19	John		24.05		
Carleton	Fair	August 20/14	PARL-051	267393	4883927	3.5	35.9	1.8												5.98	John		24.05		
Carleton	Fair	August 20/14	PARL-051	267393	4883927	4	35.4	1.8												5.87	John		24.05		
Carleton	Fair	August 20/14	PARL-051	267393	4883927	5	35.7	1.8												5.73	John		24.7		
Carleton	Fair	August 20/14	PARL-051	267393	4883927	6	35.6	1.8		31.1	7.52			0.134	0.099	<0.01		0.54	2.7	5.71	John		35.35		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		0.75	27.9	1												5.31	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		1	27.9	1												5.77	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		1	27.9	1	4.9	14	1.03			0.042	0.029	0.04		0.27	<1	5.29	John	Composite sample from 0-2.5 and 2 m			
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		2	27.8	1												5.3	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		3	27.8	1												5.31	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		4	27.7	1												5.29	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		5	27.8	1												5.29	John		23.4		
Carleton	Fair	May 11/15	PARL-051	Missed sample to others		6	27.4	1												5.29	John		23.4		
Carleton	Fair	October 20/14	PARL-051	267403	4883918	0.25	31	0.65	4.6	19.9	1.76			0.064	0.064	0.03		0.63	<1.6	5.98	John		24.7		
Carleton	Fair	October 20/14	PARL-051			1	31.1	0.65												6.01	John		24.7		
Carleton	Fair	October 20/14	PARL-051			2	30.9	0.65												6.02	John		24.7		
Carleton	Fair	October 20/14	PARL-051			3	30.9	0.65												6.02	John		24.7		
Carleton	Fair	October 20/14	PARL-051			4	30.9	0.65												6.03	John		24.7		
Carleton	Fair	October 20/14	PARL-051			5	31	0.65												6.02	John		24.7		
Carleton	Fair	October 20/14	PARL-051			6	31	0.65												6.02	John		24.7		
Carleton	Fair	August 28/14	PARL-051	267403	4883913.9	0.25	34.4	0.57	11	19.9	1.62			0.111	0.084	<0.01		0.49	1.4	5.84	John		24.05		
Carleton	Fair	August 28/14	PARL-051			1	34.9	0.57												5.85	John		24.05		
Carleton	Fair	August 28/14	PARL-051			2	34.3	0.57												5.83	John		24.05		
Carleton	Fair	August 28/14	PARL-051			3	34.2	0.57												5.83	John		24.05		
Carleton	Fair	August 28/14	PARL-051			4	34.1	0.57												5.83	John		24.05		
Carleton	Fair	August 28/14	PARL-051			5	34.1	0.57												5.83	John		24.05		
Carleton	Fair	August 28/14	PARL-051			6	34.1	0.57		20.1	2.43			0.124	0.091	<0.01		0.44	1.6	5.81	John		24.05		
Carleton	Fair	May 13/16	PARL-051	missed cross to others		0.25	26	0.9	29	97.1	1.7			0.032	0.024	<0.01		0.31		6.67	John		20.8		
Carleton	Fair	May 13/16	PARL-051			1	29	0.9												6.66	John		20.8		
Carleton	Fair	May 13/16	PARL-051			2	25	0.9												6.67	John		20.8		
Carleton	Fair	May 13/16	PARL-051			3	24.9	0.9												6.66	John		20.15		
Carleton	Fair	May 13/16	PARL-051			4	24.8	0.9												6.63	John		20.15		
Carleton	Fair	May 13/16	PARL-051			5	24.8	0.9												6.63	John		20.8		
Carleton	Fair	May 13/16	PARL-051			6	24.6	0.9												6.61	John		20.8		
Carleton	Fair	May 13/16	PARL-051			7	24.6	0.9												6.63	John		20.8		
Carleton	Fair	Oct 28/13	PARL-051	267403	4883944	0.25	29.9	0.55	2.3	21.3	1.14			0.068	0.072	0.04		0.53	1.7	6.69	John		26.65	6.9	
Carleton	Fair	Oct 28/13	PARL-051			1	29.9	0.55												6.69	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			2	29.9	0.55												6.69	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			3	29.8	0.55												6.69	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			4	29.8	0.55												6.69	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			5	29.8	0.55												6.68	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			6	29.8	0.55												6.68	John		26.65		
Carleton	Fair	Oct 28/13	PARL-051			7	29.8	0.55												6.68	John		26.65		
Carleton	Fair	Aug 12/13	PARL-051	267376	4883930	0.25	37.6	0.51	6.1	199.6	1.27			0.105	0.08	0.04		0.53	1.8	5.71	John		26	6	
Carleton	Fair	Aug 12/13	PARL-051			1	37.6	0.51												5.7	John		26		
Carleton	Fair	Aug 12/13	PARL-051			2	37.6	0.51												5.71	John		26		
Carleton	Fair	Aug 12/13	PARL-051			3	37.6	0.51												5.69	John		26		
Carleton	Fair	Aug 12/13	PARL-051			4	37.6	0.51												5.68	John		26		
Carleton	Fair	Aug 12/13	PARL-051			5	37.5	0.51												5.67	John		26		
Carleton	Fair	Aug 12/13	PARL-051			6	37.5	0.51		216.5	1.57			0.107	0.087	0.04		0.54	1.6	5.64	John		26	6.8	
Carleton	Fair	July 8/13	PARL-051	267370	4883932																				
Carleton	Fair	July 8/13	PARL-051	267370	4883932	0.25	39	0.55	6.7	223.9	1.62			0.086	0.066	0.01		0.5	1.2	5.66	John	sample for 25 m, no phaeophytin in euphotic zone, taken at 30 m at other along shower	26.35	6.6	
Carleton	Fair	July 8/13	PARL-051			1	39	0.55												5.63	John		26		
Carleton	Fair	July 8/13	PARL-051			2	39.1	0.55												5.39	John		26		
Carleton	Fair	July 8/13	PARL-051			3	38.7	0.55												5.41	John		26		
Carleton	Fair	July 8/13	PARL-051			4	36	0.55												5.39	John		26		
Carleton	Fair	July 8/13	PARL-051			5	35.7	0.55												5.37	John		26		
Carleton	Fair	July 8/13	PARL-051			6	35.1	0.55												5.34	John		26		
Carleton	Fair	July 8/13	PARL-051			7	33	0.55		232.9	2.37			0.097	0.075	0.01		0.54	1.6	5.33	John		26	6.9	
Carleton	Fair	May 8/13	PARL-051	267383	4883933	0.5	36.4	0.96	7.8	100.4	1.34			0.073	0.012	<0.01		0.75	<1.0	5.87	John		29.35	6.8	
Carleton	Fair	May 8/13	PARL-051D			0.5		0.96	8.3					0.025	0.012						John	Duplicate chlorophyll & phosphate readings matched			
Carleton	Fair	May 8/13	PARL-051			1	35.7	0.96												5.62	John		29.25		
Carleton	Fair	May 8/13	PARL-051			2	35.4	0.96												5.55	John		29.25		
Carleton	Fair	May 8/13	PARL-051			3	33.3	0.96												5.37	John		29.25		
Carleton	Fair	May 8/13	PARL-051			4	35.7	0.96												5.57	John		29.25		
Carleton	Fair	May 8/13	PARL-051			5	35	0.96												5.52	John		29.25		
Carleton	Fair	May 8/13	PARL-051			6	34.5	0.96												5.49	John		29.25		
Carleton	Fair	Aug 26/2011	PARL-DH4							117.9	13			0.097	0.048	0.03	0.07	0.42			MSOD				
Carleton	Fair	Aug 26/2011	PARL-DH5							103.3	11.8			0.076	0.036	0.01	0.08	0.48			MSOD				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TSS)	pH (from lab)	Phaeophytin (ug/L)
Carleton	Farr	Aug 28/2011	PAR-0NC							106.9		8.6		0.012	0.003	0.01	0.01	0.32			MSDOE				
Carleton	Farr	Oct 27/09	PAR-0NA				37		0.1	142		14.6		0.018	0.006	0.01		0.36	2.7	6.7	MSDOE				
Carleton	Farr	Oct 27/09	PAR-0NB				34.8		0.1	130		13.2		0.011	0.005	0.01		0.3	1	6.1	MSDOE				
Carleton	Farr	Oct 27/09	PAR-0NC				37		0.1	143		14.9		0.014	0.006	0.01		0.33	1	6	MSDOE				
Carleton	Farr	Sep 27/10	PAR-0NA				46.7		0.1	113	0.23	18	1.2	0.012	0.006	0.01	0.01	0.32	1.3	6.9	MSDOE				
Carleton	Farr	Sep 27/10	PAR-0NC				61		0.8	72	2.65	8.7	7.8	0.067	0.029	0.04	0.11	0.4	3.9	6.6	MSDOE				
Carleton	Farr	Sep 27/10	PAR-0NA				46.6		3.4	111	1.66	11.6	2	0.099	0.069	0.01	0.01	0.35	1.7	6.1	MSDOE				
Carleton	Farr	Aug 31/2011	PAR-0N1			0		1	4.7	97.7		10.9		0.078	0.073	0.01	0.02	0.034			MSDOE				
Carleton	Farr	Aug 31/2011	PAR-0N1			4				99		11.1		0.076	0.066	0.01	0.03	0.034			MSDOE				
Carleton	Farr	Aug 16/08	PAR-0N1			0	43	1.3	11	64				0.033	0.017	0.01		0.27	3		MSDOE				
Carleton	Farr	Jul 23/86				0	46.6	2.8	11	33		8.8		0.006	0.001	0.01		0.23	1.04	6.78	MSDLAB				
Carleton	Farr	Oct 27/09	PAR-0N1			0	42.3	0.53	0.9	176		18.4		0.46	0.075	0.07		0.36	1	5.4	MSDOE				
Carleton	Farr	Oct 27/09	PAR-0N1			8.3	42.6			178		18.4		0.55	0.075	0.07		0.36	1	5.4	MSDOE				
Carleton	Farr	Sep 27/10	PAR-0N1			0	44.4	0.75	1.9	86	1.88	9.3	3.7	0.061	0.031	0.01	0.03	0.33	1.1	6.7	MSDOE				
Carleton	Farr	Aug 31/2011	PAR-0N1							97.1		10.4		0.062	0.033	0.01	0.02	0.32							
Carleton	Farr	Oct 27/09	PAR-0N1				40.9		1.1	168		17		0.076	0.059	0.06		0.37	1	5.6	MSDOE				
Carleton	Farr	Sep 28/10	PAR-0N1			0	44.7		3.8	80	1.56	9	2.4	0.054	0.029	0.01	0.02	0.39	1.6	6.7	MSDOE				
Carleton	Digdem	Aug 30/17	OL-0N1	267141.32	4884278.2	0.25	43		3.93	119	1.37			0.061	0.039	<0.01	0.01	0.037		4.86	Upstreac			6.3	4.93
Carleton	Digdem	Aug 30/17	OL-0N1	267141.32	4884278.2	1.2	43													4.86	Upstreac				
Carleton	Digdem	Aug 30/17	OL-0N3	267409	4880933	0.25	46	2												5.17	Upstreac				
Carleton	Digdem	Aug 30/17	OL-0N3	267409	4880933	4.9	46	2												4.98	Upstreac				
Carleton	Digdem	Aug 30/17	OL-0N3	267409	4880933	19.3	46	2		83.4	1.53			0.026	0.014	<0.01	0.01	0.3		5.32	Upstreac			6.6	
Carleton	Digdem	Aug 30/17	OL-0N1	266019.37	4881607.06	0.25	43		9.17	81.4	2.13			0.027	0.016	<0.01	<0.01	0.32		5.16	Upstreac			6.4	5.27
Carleton	Digdem	Aug 30/17	OL-0N1	266019.37	4881607.06	1.7	48													5.08	Upstreac				
Carleton	Digdem	Aug 22/16	OL-Chal	266431	4881939	0.25	34.7													6.03		Open South of end of Beechwood Lane at 0.25, average	23.4		
Carleton	Digdem	Aug/21/16	OL-DS1	Pool Ice-on		1.375		1.25	4.46	46.6	2.50			0.024	0.006	0.03		0.33	1.3			Composite sample from 2.5 m and 1.3 m		6.3	
Carleton	Digdem	Aug/21/16	OL-DS1	Pool Ice-on		17.6		1.25		126	16.2			0.305	0.138	<0.01		0.74	5.8			Surface to bottom same but at 17.75 m/s		6.9	
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881107	0.25	34.6	1.17												6.69	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881107	1	34.7	1.17												6.33	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	1	34.7	1.17	11	83.2	3.97			0.022	0.004	0.01		0.32	1.6	6.33	John	Composite sample from 2.5 and 2.3 m			
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	2	34.7	1.17												6.43	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	2.3	34.7	1.17												6.38	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	3	34.1	1.17												6.97	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	4	33.7	1.17												6.81	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	5	33.7	1.17												6.73	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	6	34.1	1.17												6.71	John		24.05		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	7	32.4	1.17												6.6	John		24.05		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	8	29.9	1.17												6.67	John		24.05		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	9	30.2	1.17												6.58	John		24.05		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	10	27.3	1.17												6.36	John		24.7		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	11	26.8	1.17												6.36	John		24.7		
Carleton	Digdem	Aug/30/16	OL-DS1	267344	4881102	12	30.1	1.17		88.1	1.76			0.034	0.041	0.08		0.48	1.6	6.52	John		24.35		
Carleton	Digdem	Aug/30/16	OL-DS1	267409	4880933	0.25	33.7	0.66	26	126.5	3.4			0.046	0.021	<0.01		0.44	1.7	6.7	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			1	33.1	0.66												6.12	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			2	33.3	0.66												6.09	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			3	33.3	0.66												6.06	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			4	33.3	0.66												6.01	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			5	33.3	0.66												6.04	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			6	33.3	0.66												6.07	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			7	33.3	0.66												6.09	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			8	33	0.66												6.12	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			9	29.3	0.66												6.6	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			10.3	27.4	0.66												6.83	John		23.75		
Carleton	Digdem	Aug/30/16	OL-DS1			11	26.7	0.66												6.86	John		23.4		
Carleton	Digdem	Aug/30/16	OL-DS1			12.3	29.9	0.66												6.97	John		24		
Carleton	Digdem	Aug/30/16	OL-DS1			13	30.2	0.66		196.4	8.99			0.107	0.074	0.07		0.75	3.2	6.93	John		27.3		
Carleton	Digdem	Oct 30/13	OL-DS1			0	46.3	0.7	2.1	180.9	0.92			0.061	0.060	0.07		0.44	1.9	6.1	ACER			6.1	
Carleton	Digdem	Oct 30/13	OL-DS1			10	46.5	0.7		188.3	1.13			0.106	0.148	0.006		0.69	4.4	6.7	ACER			6.7	
Carleton	Digdem	Aug 6/13	OL-DS1			0	42.8	0.4	9.4	145.8				0.057	0.033	0.07		0.41	3.8	6.4	ACER				
Carleton	Digdem	Aug 6/13	OL-DS1			10	54.6	0.4		167.9				0.060	0.070	0.13		0.58	7.3	6.4	ACER				
Carleton	Digdem	Apr 29/13	OL-DS1			0	40.9	1.4	12.0	77.7				0.072	0.016	0.003		0.76	1.7	6.7	ACER				
Carleton	Digdem	Apr 29/13	OL-DS1			10	42.0	1.4		161.9				0.096	0.072	0.13		0.69	2.8	6.4	ACER				
Carleton	Digdem	Oct 22/09	OL-0N1				43.6		1.7	166		16.9		0.076	0.048	0.06		0.49	1.1	6.6	MSDOE				
Carleton	Digdem	Sep 28/10	OL-0N1			0	44.7		3.8	85	1.58	9	3.6	0.054	0.029	0.01	0.02	0.39	1.6	6.7	MSDOE				
Carleton	Digdem	Aug/16/08	OL-DS1			0	41.9	1.6	10	79		9.9		0.014	0.003	0.01		0.35	3	6.1	MSDOE				
Carleton	Digdem	Aug/16/08	OL-DS1			9	42.1			46		8.5		0.018	0.008	0.03		0.34	3	6.6	MSDOE				
Carleton	Digdem	Aug/16/08	OL-DS1			18	49.1			153		8.8		0.067	0.061	0.01		0.8	6	6.9	MSDOE				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU's)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (ug/L)
Carleton	Jigsaw	Aug/28/11	CL-051			0	43.2	1.7	17.3	99.7		7.7		0.022	0.003	0.01	0.01	0.28			MSQOP				
Carleton	Jigsaw	Aug/28/11	CL-051			15	43.4			107.1		7.7		0.024	0.006	0.02	0.01	0.24			MSQOP				
Carleton	Jigsaw	Aug/28/03				13	49.7			97									7	6.6	Bridger				
Carleton	Jigsaw	aug/28/03				0	46.3	1.54	0.7	87				0.017	0.007	0.01			7.3	6.9	Bridger				
Carleton	Jigsaw	aug/28/03				12	47.9			64									7.3	6.6	Bridger				
Carleton	Jigsaw	aug/28/06				0	44	1.3		80		6.9		0.006	0.001	0.01		0.19	7.2	6.2	MSQOP				
Carleton	Jigsaw	Oct/23/09	CL-051			0	41.9	0.63	1	86		6.9		0.014	0.003	0.01		0.25	3	6.1	MSQOP				
Carleton	Jigsaw	Oct/23/09	CL-051			9	42.1			63		6.3		0.018	0.006	0.02		0.21	3	5.8	MSQOP				
Carleton	Jigsaw	Oct/23/09	CL-051			18	45.1			113		8.8		0.047	0.041	0.01		0.8	5	5.9	MSQOP				
Carleton	Jigsaw	sep/28/10	CL-051			0	43.6	0.95	18.8	38	4.2	7.3	6	0.029	0.006	0.06	0.04	0.33	5.9	6.2	MSQOP				
Carleton	Jigsaw	sep/28/10	CL-051			16	42.3		1.6	206	6.35	17	14.8	0.76	0.194	0.01		1.75	11.8	7	MSQOP				
Carleton	Jigsaw	Aug/28/11	CL-051				45.1			71.4		7.8		0.015	0.005	0.01	0.03		6.4	6.7	MSQOP				
Carleton	Jigsaw	Oct/23/09	CL-051				42.8		0.6	140	1.4	13.4	3	0.066	0.047	0.04	0.07	0.46	5.6	5.8	MSQOP				
Carleton	Jigsaw	sep/28/10	CL-051				43.8		19.8	61	4	7.3	4.4	0.029	0.004	0.04	0.03	0.38	5.5	6.2	MSQOP				
Carleton	Hanning	Oct 16/17	D51			1.675		1.55	3.45	82.3	1.35			0.031	0.012	0.03	0.03	0.36			MSDFA	Composite by Josh and Randy Cleveland from .25 and 3.1 m, overcast		6.4	3.9
Carleton	Hanning	Aug 23/17	Pw1	766342.34	4878532.41	0.25	45		7	109	1.12			0.03	0.017	<0.01	0.02	0.37		5.11	Stagmaec			6.3	3.47
Carleton	Hanning	Aug 23/17	Pw2	767484.6	4879133.36	0.25	41		2.46	82	0.94			0.011	0.004	<0.01	0.02	0.24		5.3	Stagmaec			6.4	3.63
Carleton	Hanning	Aug 23/17	Pw3	767410.47	4878798.07	0.25	53		0.95	53.5	0.4			0.004	0.004	<0.01	<0.01	0.19		5.66	Stagmaec			6.6	1.18
Carleton	Hanning	Aug 23/17	D53	766178	4878123	0.25	46													5.72	Stagmaec				
Carleton	Hanning	Aug 23/17	CL-053-QS	766178	4878123			1.5	3.59	82.3	1.04			0.032	0.01	<0.01	0.03	0.33			Stagmaec			6.4	3.89
Carleton	Hanning	Aug 23/17	D53	766178	4878123	3	46													5.27	Stagmaec				
Carleton	Hanning	Aug 23/17	CL-053 Dup	766178	4878123	10.3	43		1.79	84.3				0.047	0.011					5.84	Stagmaec				4.73
Carleton	Hanning	Aug 23/17	CL-053	766178	4878123	10	42			81.8	0.66			0.01	0.005	<0.01	0.02	0.33		5.56	Stagmaec			6.4	
Carleton	Hanning	Aug 23/17	Qu1	766543.73	4874721.39	0.25	47		3.09	74.8	1.06			0.037	0.017	<0.01	0.02	0.33		4.4	Stagmaec			6.8	3.51
Carleton	Hanning	May 7/17	LP-D51	Not taken		1.725		1.4	2.7	68.7	0.76			0.022	0.012	<0.01	0.02	0.26				Composite from .25 and 3.2 m, by Randy Cleveland at 10:20 A.M., 50 mm rain in previous 12 hours		6.2	3.05
Carleton	Hanning	Oct 16/16	LP-D51	Not taken		1.675		1.75	7.34	97.8	1.71			0.02	0.005	<0.01		0.24	1.8			Composite from .25 and 3.2 m, by Randy Cleveland at 10:45 A.M.		6.4	4.81
Carleton	Hanning	Aug 22/16	LP-P1	766081	4877344	0.25	35.9													6.13		Grab at boat launch at Nelson's point at 9:00, foggy and overcast	34.05		
Carleton	Hanning	Aug 21/16	LP-N1			0.25				47.4	0.57			0.026	0.011	0.04		0.31	4.3			Collected at Carleton River Park		6.4	
Carleton	Hanning	Aug 21/16	LP-N2			0.25				31.4	0.44			0.015	0.004	0.03		0.3	3			Collected at Lower Chaplain's Inlet		6.9	
Carleton	Hanning	Aug 21/16	LP-D51	Not taken		1.675		1.55	10.4	43.8	2.11			0.023	0.003	0.03		0.32	1.6			Composite from .25 m and 3.1 m		6.8	
Carleton	Hanning	Aug 21/16	LP-D5X			1.675		1.55	10.2	42.7				0.023	0.004							Duplicate of composite surface sample at D51			
Carleton	Hanning	Aug 21/16	LP-D51	Not taken		6		1.55		43.7	3.98			0.041	0.016	0.02		0.46	3.1					6.6	
Carleton	Hanning	May 7/16	LP-D51	Not taken		0.25		1.65													John	Composite collected by Josh and Randy Cleveland from .25 m and 3.2 m			
Carleton	Hanning	May 7/16	LP-D51	Not taken		1.775		1.65	6.9	72.7	0.92			0.022	0.012	<0.01		0.22	41.0			Composite collected by Josh and Randy Cleveland from .25 m and 3.3 m		5.8	
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	0.25	29.8	1.35												6.13	John		24.05		
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	1	29.8	1.35												6.1	John		24.06		
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	1.5	29.8	1.35	0.3	87.7	1.73			0.036	0.017	0.04		0.34	1.6		John	Composite from .25 and 2.7 m			
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	2	28.8	1.35												6.09	John		24.06		
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	3	29.8	1.35												6.07	John		24.06		
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	4	29.6	1.35												6.06	John		24.05		
Carleton	Hanning	Oct 16/15	LP-D51	766272	4878017	5	29.6	1.35												6.05	John		24.05		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	0.25	34.6	1.6												6.21	John		22.76		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	1	34.6	1.6												6.17	John		22.76		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	1.5		1.6	1.6	73.6	2.82			0.019	0.004	<0.01		0.34	7.7	6.10	John	Composite from .25 and 2.8 m			
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	2	34.6	1.6												6.21	John		23.75		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	2.5	34.4	1.6												6.07	John		23.4		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	3	34.3	1.6												6.19	John		23.4		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	4	34.3	1.6												6.08	John		23.4		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	5	33.7	1.6												5.92	John		23.4		
Carleton	Hanning	Aug 16/15	LP-D51	766181	4878118	6	32.6	1.6		93.7	2.76			0.039	0.023	<0.01		0.26	7.1	6.77	John		24.05		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	0.25	37.4	1.7												6.11	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	1	37.3	1.7												6.28	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	1.7		1.7	0.1	44.3	0.81			0.025	0.014	0.04		0.3	<1		John	Composite from 0.25 and 3.3 m.			
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	2	37	1.7												6.38	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	3	37	1.7												6.38	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	3.5	37	1.7												6.37	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	4	37	1.7												6.34	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	5	36.9	1.7												6.38	John		23.4		
Carleton	Hanning	May 16/15	LP-D53	766190	4878083	6	36.9	1.7												6.36	John		23.4		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Inorganic Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Pheophytin (ug/L)
Carleton	Canning	October 197[illegible]	LA-053	246243	4878044	0.25	30.7	1.07	4	99.3	1.11			0.044	0.021	0.07		0.41	1.8	6.12	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			1	30.6	1.07												6.11	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			2	30.7	1.07												6.09	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			3	30.6	1.07												6.08	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			4	30.6	1.07												6.09	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			5	30.6	1.07												6.07	John		24.66		
Carleton	Canning	October 197[illegible]	LA-053			6	30.7	1.07												6.07	John		24.66		
Carleton	Canning	August 26/14	LA-053	246177	4878109	0.25	34.4	0.98	8.7	99	2.36			0.027	0.017	0.07		0.34	1.4	6.07	John		23.4		
Carleton	Canning	August 26/14	LA-053			1	33.9	0.98												6.03	John		23.4		
Carleton	Canning	August 26/14	LA-053			2	33.7	0.98												6.01	John		23.4		
Carleton	Canning	August 26/14	LA-053			3	33.7	0.98												6	John		23.4		
Carleton	Canning	August 26/14	LA-053			4	33.7	0.98												6.04	John		23.4		
Carleton	Canning	August 26/14	LA-053			5	34	0.98												5.96	John		23.4		
Carleton	Canning	August 26/14	LA-053			5.5	34	0.98		103.7	1.6			0.034	0.02	0.02		0.4	2	5.99	John		23.4		
Carleton	Canning	May 11/14	LA-053	246240	4878045	0.25	24.4	1.2	4.9	68.7	0.61			0.079	0.017	0.03		0.31	1.1	6.65	John		20.8		
Carleton	Canning	May 11/14	LA-053			1	24.3	1.2												6.64	John		20.8		
Carleton	Canning	May 11/14	LA-053			2	24.3	1.2												6.64	John		20.8		
Carleton	Canning	May 11/14	LA-053			2.8	24.3	1.2												6.67	John		20.8		
Carleton	Canning	May 11/14	LA-053			3	24.3	1.2												6.68	John		20.8		
Carleton	Canning	May 11/14	LA-053			4	24.3	1.2												6.67	John		20.8		
Carleton	Canning	May 11/14	LA-053			5	24.3	1.2												6.62	John		20.8		
Carleton	Canning	May 11/14	LA-053			6	24.3	1.2												6.61	John		20.8		
Carleton	Canning	Oct 20/13	LA-053	246143	4878084	0.25	31.5	0.68	2.6	164.3	1.06			0.067	0.019	0.06		0.42	1.8	5.78	John	not carbonate	25.25	6.1	
Carleton	Canning	Oct 20/13	LA-053			1	31.5	0.68												5.78	John		25.25		
Carleton	Canning	Oct 20/13	LA-053			2	31.5	0.68												5.78	John		25.25		
Carleton	Canning	Oct 20/13	LA-053			3	31.5	0.68												5.78	John		25.25		
Carleton	Canning	Oct 20/13	LA-053			4	31.5	0.68												5.78	John		25.25		
Carleton	Canning	Oct 20/13	LA-053			5	31.5	0.68												5.78	John		25.25		
Carleton	Canning	Aug 11/13	LA-053	246[illegible]49	4878053	0.25	38.2	1.01												5.93	John		26		
Carleton	Canning	Aug 11/13	LA-053			0.9			3.8	131.8	0.94			0.045	0.023	0.02		0.4	1.8		John	Composite sample collected at 3.75 and 1.5 m at 11:55 A.M.		6.3	
Carleton	Canning	Aug 11/13	LA-053			1	37.7	1.01												5.9	John		26		
Carleton	Canning	Aug 11/13	LA-053			2	37.8	1.01												5.89	John		26		
Carleton	Canning	Aug 11/13	LA-053			3	37.8	1.01												5.93	John		26		
Carleton	Canning	Aug 11/13	LA-053			4	37.4	1.01												5.87	John		26		
Carleton	Canning	Aug 11/13	LA-053			5	37.4	1.01		130.6	1.16			0.044	0.026	0.07		0.36	1.9	5.87	John		26	6.3	
Carleton	Canning	July 7/13	LA-053			6.79	39.5	0.9												5.91	John		26.00		
Carleton	Canning	July 7/13	LA-053	246143	4878084	0.9		0.9	5.6	128.3	0.86			0.037	0.022	<0.01		0.35	1.4		John	Composite samples collected at 3.75 and 1.5 m at 11:15 A.M.		6	
Carleton	Canning	July 7/13	LA-053			1	38.4	0.9												5.75	John		26.00		
Carleton	Canning	July 7/13	LA-053			1.9	38.7	0.9												5.7	John		26.00		
Carleton	Canning	July 7/13	LA-053			3	38.1	0.9												5.7	John		26.00		
Carleton	Canning	July 7/13	LA-053			4	38	0.9												5.69	John		26.00		
Carleton	Canning	July 7/13	LA-053			5	38	0.9		133.8	0.97			0.041	0.027	0.01		0.29	1.4	5.68	John		26.00	6.2	
Carleton	Canning	July 7/13	LA-053			6	37.9	0.9												5.68	John		26.00		
Carleton	Canning	July 7/13	LA-053			7	37.6	0.9												5.63	John		26.00		
Carleton	Canning	May 8/13	LA-053	246176	4878127	0.3	36	1.3	9.7	72.4	0.99			0.017	0.007	<0.01		0.72	1.5	6.11	John		29.25	6.1	
Carleton	Canning	May 8/13	LA-053			1	33.7	1.3												6.08	John		29.25		
Carleton	Canning	May 8/13	LA-053			2	33.5	1.3												6.03	John		29.25		
Carleton	Canning	May 8/13	LA-053			3	33.4	1.3												5.99	John		29.25		
Carleton	Canning	May 8/13	LA-053			4	33.4	1.3												5.94	John		29.25		
Carleton	Canning	May 8/13	LA-053			5	33.1	1.3												5.9	John		29.25		
Carleton	Canning	May 8/13	LA-053			6	34.4	1.3												5.93	John		29.25		
Carleton	Canning	Oct 12/09	PL-053			0	40.6	0.73	1.3	170		1.9		0.056	0.037	0.06		0.4	1.5	5.9	MSOOP				
Carleton	Canning	Oct 12/09	PL-053			0	41.5	0.7	1.4	117		1.8		0.064	0.035	0.06		0.44	1.7	6	MSOOP				
Carleton	Canning	Oct 12/09	PL-053			7.9	41.9			127		1.3		0.06	0.037	0.06		0.4	1.5	5.9	MSOOP				
Carleton	Canning	Oct 23/07	PL-053			6	47.7	2.4	2.1	33				0.012	0.001	0.01			2	6.1	Barton				
Carleton	Canning	Aug/18/2011	PL-053				42.3			70.7	4.64	6		0.016	0.003	0.01	0.03		1.2	6.1	MSOOP				
Carleton	Canning	Aug/18/2011	PL-053				38.4			43	0.61	7.1		0.007	0.006	0.01	0.07	0.7	2.9	6.8	MSOOP				
Carleton	Canning	Aug/18/2011	PL-053				49.4			39.9	0.32	5.4		0.006	0.005	0.01	0.01	0.16	2	6.4	MSOOP				
Carleton	Canning	Oct/01/10	PL-053				38.6		1.9	43	0.34	7.4	1.6	0.005	0.005	0.01	0.01	0.31	2.8	6.7	MSOOP				
Carleton	Canning	Oct/01/10	PL-053				60.4		1.1	31	0.33	8	1.6	0.005	0.005	0.01	0.01	0.19	1.8	6.6	MSOOP				
Carleton	Canning	Oct/01/10	PL-053				43.4		1.9	30	1.13	8.9	1.6	0.24	0.003	0.14	0.03	0.41	1.4	6.6	MSOOP				
Carleton	Canning	Oct/14/09	PL-053				60		1	130		13.9		0.064	0.043	0.06		0.46	1.6	5.9	MSOOP				
Carleton	Canning	Oct/14/09	PL-053				36.7		1.3	118		13.8		0.07	0.053	0.01		0.38	2.6	6.3	MSOOP				
Carleton	Canning	Oct/14/09	PL-053				40.6		0.7	37		4.3		0.007	0.003	0.01		0.26	1.6	6.4	MSOOP				
Carleton	Canning	Aug/17/08	PL-053			0	47.3	2.3	5.8	31		5.6		0.011	0.005	0.01		0.31	3	6.6	MSOOP				
Carleton	Canning	Aug/17/08	PL-053			7	43.7			37		6		0.023	0.003	0.01		0.19	4.2	6.3	MSOOP				
Carleton	Canning	Aug/17/08	PL-053			9	50.5			131		7.6		0.097	0.066	0.01		0.62	10	6.5	MSOOP				
Carleton	Canning	Aug/18/2011	PL-053			0	42.3	1.3	10.2	42.1	4.06	7.4		0.023	0.005	0.01	0.04		1.3	6.7	MSOOP				
Carleton	Canning	Aug/18/2011	PL-053			9				202.2		9.4		0.082	0.054	0.01	0.029	0.045	5.4		MSOOP				
Carleton	Canning	Aug/28/07				0	48.7	3.07	3.6	34				0.008	0.001	0.01			2.1	6.7	Barton				
Carleton	Canning	Aug/28/07				9	57.3			97									4.8	6	Barton				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (FTU)	pH (from lab)	Phaeophytin (ug/L)
Carleton	Canning	July 03/02				0	46.3	1.71	1.9	63				0.017	0.007	0.07			1	6.9	Epcon				
Carleton	Canning	July 03/02				9	46.6			67									1.8	6.7	Epcon				
Carleton	Canning	July 17/06				0	45.6	1.5		73		4.1		0.004	0.001	0.01		0.17	1.3	6.3	NSDOE				
Carleton	Canning	Sept 13/09	PL-051			0	40.6	0.75	1.3	120		13		0.056	0.037	0.04		0.4	1.6	6.9	NSDOE				
Carleton	Canning	Sept 13/09	PL-052			0	41.5	0.7	1.4	117		13.8		0.046	0.033	0.04		0.44	1.7	6.8	NSDOE				
Carleton	Canning	Sept 13/09	PL-051			7.9	41.5			122		13.3		0.06	0.037	0.04		0.4	1.5	6.9	NSDOE				
Carleton	Canning	Sept 30/10	PL-052			0	44.4		16.2	43	7.93	6.9	3	0.019	0.003	0.05	0.07	0.36	1.7	6.6	NSDOE				
Carleton	Canning	Sept 30/10	PL-051			0	44.4	1.15	21.9	58	7.87	6.4	7.8	0.021	0.005	0.06	0.04	0.33	1.8	6.4	NSDOE				
Carleton	Canning	Aug 18/2011	PL-051				42.9			61.5	4.85	7.2		0.015	0.005	0.01	0.02		1.7	6.3	NSDOE				
Carleton	Canning	July 18/13	PL-051				43		4.5	42	3.17	5.6	3.3	0.019	0.005	0.07	0.03	0.31	1.7	6.9	NSDOE				
Carleton	Canning	Oct 14/09	PL-051				40.1		11	120		12.9		0.069	0.03	0.08		0.45	1.8	6	NSDOE				
Carleton	Jacques	Oct 16/17	SLL-051			4.736		4.6	1.38	14.2	1.2			0.004	< 0.002	< 0.01	0.01	0.14			NSDPA	Composite by Adam Richard from 1.2 m and 2.5 m. Overcast		4.9	0.95
Carleton	Jacques	Aug 21/17	SL-051	265144.89	4875167.77	0.25	64	4.35												6.52	Llamrac				
Carleton	Jacques	Aug 21/17	SL-051	265144.89	4875167.77			4.35	1.39	14.6	0.32			0.004	0.004	< 0.01	< 0.01	0.15			Llamrac			7	1.46
Carleton	Jacques	Aug 21/17	SL-051	265144.89	4875167.77	9	67	4.35												5.31	Llamrac				
Carleton	Jacques	Aug 21/17	SL-051	265144.89	4875167.77	21	69	4.35		16.3	0.6			0.006	0.006	0.04	0.03	0.21		5.99	Llamrac			6.9	
Carleton	Jacques	Aug 21/17	SL-052	265301.53	4873017.06	0.25	52	4.75												5.27	Llamrac				
Carleton	Jacques	Aug 21/17	SL-052	265301.53	4873017.06			4.75	1.91	13.6	0.42			0.003	0.003	< 0.01	< 0.01	0.13			Llamrac			6.9	1.47
Carleton	Jacques	Aug 21/17	SL-052	265301.53	4873017.06	9.5	53	4.75												4.96	Llamrac				
Carleton	Jacques	Aug 21/17	SL-052	265301.53	4873017.06	16.3	53	4.75		11.4	0.36			0.002	< 0.0	< 0.01	< 0.01	0.12		6	Llamrac			6.7	
Carleton	Jacques	Aug 21/17	SL-0	265352.52	4873271.42	0.25	43		4.69	16.9	0.36			0.002	< 0.0	< 0.01	< 0.01	0.16		5.16	Llamrac			7.0	2.23
Carleton	Jacques	May 7/17	SLL-051	Not taken		4.375		4.25	0.73	16.4	0.67			0.006	0.003	< 0.01	< 0.01	0.19				Composite Collected by Adam Richard 11:40 A.M. 50 mm rain in previous 12 hours.		6.7	0.4
Carleton	Jacques	Oct 16/16	SL-051	Not taken		4.375		4.25	2.27	11.4	0.4			0.003	0.002	< 0.01		0.13	4.2			Composite Collected by Adam Richard, Uwe, and Sylvia from 2.5 m and 8.5 m at 10:30		7	1.36
Carleton	Jacques	Aug 26/16	SL-051	265048	4875127	4.375		4.25	1.78	16.6	0.45			0.004	0.004	0.01		0.14	4.7			Composite Collected by Adam Richard from 2.5 m and 12.5 m		6.9	
Carleton	Jacques	Aug 26/16	SL-051	265048	4875127	22		4.25		33	15.2			0.019	0.005	0.05		0.27	5.4					7	
Carleton	Jacques	Aug 22/16	SL-414	264831	4875368	0.25	45.5													6.73		Water at surface 1 Stick at 11:00, overcast	29.9		
Carleton	Jacques	May 1/16	SL-051	Not taken		0.35		4.75													John	Composite Collected by Adam Richard from 2.5 m and 9.5 m.			
Carleton	Jacques	May 1/16	SL-051	Not taken		4.875		4.75	1.3	33.8	0.51			0.004	0.003	< 0.01		0.18	3			Composite Collected by Adam Richard from 2.5 m and 9.5 m		6.8	
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	0.25	33.7	4.9												6.39	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	1	36	4.9												6.6	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	2	36	4.9												6.61	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	3	36	4.9												6.6	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	4	36	4.9												6.6	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	5	36	4.9	4.1	20.6	0.42			0.004	0.004	< 0.0		0.13	3.4	6.6	John	Composite Collected from 1.25 and 10 m	29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	6	36	4.9												6.6	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	7	36	4.9												6.6	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	8	36	4.9												6.60	John		29.25		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	9	33.9	4.9												6.32	John		29.9		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	10	32.6	4.9												6.78	John		29.9		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	11	31.6	4.9												6.74	John		29.9		
Carleton	Jacques	Oct 18/18	DS-1	265099	4875250	12	30.8	4.9		23.8	0.45			0.006	0.004	0.03		0.17	3.6	6.99	John		29.9		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	0.25	44.3	5.375												6.93	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	1	44.3	5.375												6.88	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	2	44.3	5.375												6.87	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	3	44.3	5.375												6.86	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	4	43.9	5.375												6.76	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	5	43.5	5.375												6.57	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	6.8		5.375	2.2	21.3	0.58			0.004	0.004	0.02		0.16	3.3		John	Composite sample at 1.25 m, and 1 m			
Carleton	Jacques	August 18/18	DS-1	265181	4875183	6	41.6	5.375												6.3	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	7	34	5.375												6.64	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	8	34.5	5.375												6.8	John		29.25		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	9	32.3	5.375												6.83	John		29.9		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	10	30.8	5.375												6.82	John		29.9		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	11	30.4	5.375												6.86	John		29.9		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	12	30.7	5.375												6.89	John		29.9		
Carleton	Jacques	August 18/18	DS-1	265181	4875183	20	30.4	5.375		31	0.74			0.006	0.003	0.04		0.22	3.3	6.84	John		29.9		
Carleton	Jacques	May 18/18	DS-1	265107	4875163	0.25	35.3	4.04												6.79	John		29.25		
Carleton	Jacques	May 18/18	DS-1	265107	4875163	1	35.3	4.04												6.82	John		29.25		
Carleton	Jacques	May 18/18	DS-1	265107	4875163	2	35.2	4.04												6.84	John		29.25		
Carleton	Jacques	May 18/18	DS-1	265107	4875163	3	34.9	4.04												6.81	John		29.25		
Carleton	Jacques	May 18/18	DS-1	265107	4875163	4	34.2	4.04	2.8	27.7	0.41			0.004	0.004	< 0.0		0.17	2.9	6.78	John	Composite sample at 0.25 and 8 m	29.25		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (µS/cm)	Secchi (m)	Chlorophyll (µg/L)	Color (PCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (µg/L)
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	5	33.8	4.04												6.69	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	6	33	4.04												6.69	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	7	31.8	4.04												6.41	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	8	30.2	4.04												6.3	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	9	29.8	4.04												6.29	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	10	29.6	4.04												6.26	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	11	29.6	4.04												6.27	John		29.25		
Carleton	Jeanne	May 18/16	DS-1	263107	4875143	20	29.6	4.04		26.3	0.36			0.004	0.004	0.09		0.18	3.6	6.62	John		29.9		
Carleton	Jeanne	October 18/16	DS-1	263107	4875143	0.25	36.5	3.69	3.4	14.3	0.44			0.003	< 0.002	< 0.01		0.13	3.6	6.73	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			1	39.3	3.69												6.76	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			2	39.3	3.69												6.76	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			3	39.5	3.69												6.76	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			4	39.5	3.69												6.76	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			5	38.1	3.69												6.68	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			6	38	3.69												6.6	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			7	37.8	3.69												6.57	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			8	37.8	3.69												6.48	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			9	37.8	3.69												6.35	John		29.9		
Carleton	Jeanne	October 18/16	DS-1			10	35.3	3.69												5.91	John		31.2		
Carleton	Jeanne	October 18/16	DS-1			11	34.9	3.69												5.74	John		31.85		
Carleton	Jeanne	October 18/16	DS-1			20	36	3.69		9.8	10.3			0.014	0.009	< 0.01		0.25	7.1	6.06	John		30.45		
Carleton	Jeanne	August 30/16	DS-1	263082	4875194	0.25	43.5	4.63												6.89	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			1	43.5	4.63												6.86	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			2	43.4	4.63												6.89	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			3	43.4	4.63												6.87	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			4	43.4	4.63												6.86	John		29.9		
Carleton	Jeanne	August 30/16	DS-1	263082	4875194	4.63		4.63	1.8	20.1	0.31			0.006	< 0.002	< 0.01		0.13	3.7		John				
Carleton	Jeanne	August 30/16	DS-1			5	43.3	4.63												6.84	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			6	43.1	4.63												6.65	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			7	38.6	4.63												5.96	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			8	33.4	4.63												5.91	John		29.9		
Carleton	Jeanne	August 30/16	DS-1			9	34.1	4.63												5.85	John		30.55		
Carleton	Jeanne	August 30/16	DS-1			10	33.3	4.63												5.77	John		30.55		
Carleton	Jeanne	August 30/16	DS-1			11	32.8	4.63												5.73	John		30.55		
Carleton	Jeanne	August 30/16	DS-1			19	33.3	4.63												5.91	John		31.85		
Carleton	Jeanne	August 30/16	DS-1			20	32.9	4.63		37.9	0.87			0.008	< 0.002	0.01		0.17	4.9	5.93	John		30.55		
Carleton	Jeanne	May 11/16	DS-1	263137	4875106	0.25	33.7	2.325	9.3	29	0.46			< 0.002	< 0.002	< 0.01		0.13	3.1	6.63	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			1	33.7	2.325												6.69	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			2	33.6	2.325												6.71	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			3	32.6	2.325												6.69	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			4	32.1	2.325												6.66	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			5	32.1	2.325												6.69	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			7	31.7	2.325												6.41	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			8	30.6	2.325												6.3	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			9	30.6	2.325												6.28	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			10	30.5	2.325												6.24	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			11	30.6	2.325												6.23	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			19	30.1	2.325												6.63	John		28.6		
Carleton	Jeanne	May 11/16	DS-1			20	29.5	2.325		27.3	0.36			0.003	< 0.002	0.04		0.17	3.1	6.1	John		28.6		
Carleton	Jeanne	October 20/16	DS-1	263107	4875143			3.3													John				
Carleton	Jeanne	October 20/16	DS-1			0.25	36.7	3.3												6.66	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			1	36.7	3.3												6.67	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			2	36.7	3.3												6.58	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			3	36.7	3.3												6.58	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			4	36.7	3.3												6.69	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			0.125		3.3	2.4	23	0.39			0.002	< 0.002	< 0.01		0.14	3.6		John	Composite from 2.5 m and 5 m		7	
Carleton	Jeanne	October 20/16	DS-1			5	36.7	3.3												6.58	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			6	36.7	3.3												6.58	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			7	36.7	3.3												6.57	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			8	36.7	3.3												6.56	John		30.55		
Carleton	Jeanne	October 20/16	DS-1			9	36.5	3.3												6.32	John		31.2		
Carleton	Jeanne	October 20/16	DS-1			10	37.4	3.3												5.84	John		33.15		
Carleton	Jeanne	October 20/16	DS-1			19	36.1	3.3												5.87	John		33.15		
Carleton	Jeanne	October 20/16	DS-1			20	35.5	3.3		64.9	4.63			0.011	< 0.002	0.01		0.23	4.9	5.97	John		33.1	7	
Carleton	Jeanne	Aug. 01/13	DS-3	264570	4875019	0.35		3.15		36.3	1.58			0.005	< 0.005	< 0.1		0.3	3.6		John	[illegible] 4875019, in NW cove visible from Hwy 340, and below mine farm area		4.9	
Carleton	Jeanne	August 31/13	DS-1			0.25	45	3.22												6.73	John		30.55		
Carleton	Jeanne	August 31/13	DS-1	263139	4875086	1	45	3.22												6.78	John		30.55		
Carleton	Jeanne	August 31/13	DS-1			2	45	3.22												6.79	John		30.55		
Carleton	Jeanne	August 31/13	DS-1			3	45	3.22												6.78	John		30.55		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from data)	Phaeophytin (ug/L)
Carleton	Jeans	August 11/13	DS-1			3			2.4	22.3	0.41			0.004	<0.004	<0.01		0.14	4.4		John	Composite from 2.5 m and 4.2 m at 10:15 A.M.		7	
Carleton	Jeans	August 11/13	DS-1			4	44.9	3.22												6.71	John		30.55		
Carleton	Jeans	August 11/13	DS-1			5	44.3	3.22												6.46	John		31.2		
Carleton	Jeans	August 11/13	DS-1			6	45.6	3.22												6.01	John		31.65		
Carleton	Jeans	August 11/13	DS-1			7	46.3	3.22												5.96	John		31.86		
Carleton	Jeans	August 11/13	DS-1			8	46.6	3.22												5.89	John		33.5		
Carleton	Jeans	August 11/13	DS-1			9	45.9	3.22												5.84	John		33.6		
Carleton	Jeans	August 11/13	DS-1			10	45.3	3.22												5.65	John		33.5		
Carleton	Jeans	August 11/13	DS-1			12	46	3.22												6	John		33.15		
Carleton	Jeans	August 11/13	DS-1			13		3.22		18.7	0.9			0.004	<0.003	0.03		0.16	4.3		John			7	
Carleton	Jeans	August 11/13	DS-1			16	43.3	3.22												6.9	John		33.15		
Carleton	Jeans	July 3/13	DS-1	265104	4875113	0.25	42.6	2.65												6.81	John	Following 3-4 days of rain, surface sample composite at 25 m and 5 m	30.55		
Carleton	Jeans	July 3/13	DS-1			1	42.5	2.65												6.78	John	Following 3-4 days of rain	30.55		
Carleton	Jeans	July 3/13	DS-1			2	42.3	2.65												6.77	John	Following 3-4 days of rain	30.55		
Carleton	Jeans	July 3/13	DS-1			2.625		2.65	2	29.2	0.47			0.016	0.004	<0.01		0.16	3.8		John	Following 3-4 days of rain, surface sample composite at 25 m and 5 m		6.9	
Carleton	Jeans	July 3/13	DS-1			3	42.3	2.65												6.76	John	Following 3-4 days of rain	30.55		
Carleton	Jeans	July 3/13	DS-1			4	42.2	2.65												6.71	John	Following 3-4 days of rain	30.55		
Carleton	Jeans	July 3/13	DS-1			5	41.9	2.65												6.13	John	Following 3-4 days of rain	31.2		
Carleton	Jeans	July 3/13	DS-1			6	39.8	2.65												6.12	John	Following 3-4 days of rain	31.2		
Carleton	Jeans	July 3/13	DS-1			7	39	2.65												6.22	John	Following 3-4 days of rain	31.85		
Carleton	Jeans	July 3/13	DS-1			8	35.4	2.65												6.96	John	Following 3-4 days of rain	33.5		
Carleton	Jeans	July 3/13	DS-1			9	34.8	2.65												6.96	John	Following 3-4 days of rain	32.6		
Carleton	Jeans	July 3/13	DS-1			10	34.6	2.65												6.93	John	Following 3-4 days of rain	31.85		
Carleton	Jeans	July 3/13	DS-1			12	35.4	2.65												6.09	John	Following 3-4 days of rain	33.5		
Carleton	Jeans	July 3/13	DS-1			13				18.7	0.5			0.004	<0.003	0.02		0.16	4.3		John			7	
Carleton	Jeans	July 3/13	DS-1			16	33.6	2.65		19.2	0.48			0.004	<0.003	0.02		0.14	4.1	6.09	John	Following 3-4 days of rain	33.6	4.8	
Carleton	Jeans	May 6/13	S1-DS1	265112	4875159	0.5	38.7	3.65	7.3	22	0.33			0.003	<0.003	<0.01		0.14	4	6.64	John		31.2	7.9	
Carleton	Jeans	May 6/13	S1-DS1			1	38.3	3.65												6.61	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			2	37.9	3.65												6.60	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			3	37.8	3.65												6.9	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			4	37.3	3.65												6.9	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			5	34.4	3.65												6.96	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			6	33.9	3.65												6.79	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			7	33.4	3.65												6.6	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			8	33.3	3.65												6.50	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			9	33.3	3.65												6.53	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			10	33.1	3.65												6.51	John		31.2		
Carleton	Jeans	May 6/13	S1-DS1			15	32.3	3.65												6.67	John		31.85		
Carleton	Jeans	May 6/13	S1-DS1			20	32.4	3.65												6.73	John		31.85		
Carleton	Jeans	Nov/06/09	S1-Pos				48.2		1.6	22		4.2		0.003	0.003	0.01		0.16	3.6	6.8	NSDOE				
Carleton	Jeans	Sept/10/09	S1-Pos				47.3		1.2	20		4.7		0.006	0.005	0.01		0.16	3.1	6.6	NSDOE				
Carleton	Jeans	Nov/06/09	S1-Pos-200m				38.7		0.1	29		10.8		0.016	0.003	0.01		0.25	4.1	6.7	NSDOE				
Carleton	Jeans	Nov/06/09	S1-Pos-400m				38.6		0.1	27		10.4		0.016	0.003	0.01		0.25	3.4	6.7	NSDOE				
Carleton	Jeans	Sept/10/09	S1-Pos-200m				62			132				0.044		0.01		0.37	14.1	7.2	NSDOE				
Carleton	Jeans	Sept/10/09	S1-Pos-400m				60.7		0.1	114		16.4		0.036	0.003	0.01		0.35	17.5	7.1	NSDOE				
Carleton	Jeans	Aug/16/2011	S1-DS1			0	51.2	4.6		15.3	0.3	3.9		0.005	0.003	0.01	0.01	0.13	3.5	7	NSDOE				
Carleton	Jeans	Aug/16/2011	S1-DS1			12	51.9			16.9	0.29	3.9		0.01	0.004	0.02	0.01	0.13	3.6	6.9	NSDOE				
Carleton	Jeans	Aug/28/03				0	53.2	4.8	0.5	11				0.01	0.001	0.01			4	6.8	Bynon				
Carleton	Jeans	Aug/28/03				3	53.3	6	1	10				0.01	0.001	0.01			4	6.8	Bynon				
Carleton	Jeans	Aug/28/03				16	53.6			14									4.3	6	Bynon				
Carleton	Jeans	Aug/28/03				15	53.1			18									4	5.9	Bynon				
Carleton	Jeans	July/31/86				0	56	5.5						0.003	0.001	0.01		0.19	3.9	5.8	NSDOE				
Carleton	Jeans	July/24/03				0	57	2.24	1.3	14				0.003	0.001	0.01			3.6	6.9	Bynon				
Carleton	Jeans	July/24/03				5	64.7	4.045	1.5	18				0.003	0.001	0.01			3.6	6.8	Bynon				
Carleton	Jeans	July/24/03				10	61.4			14									3.6	6.7	Bynon				
Carleton	Jeans	July/24/03				10.5	64.7			14									3.8	6.7	Bynon				
Carleton	Jeans	Nov/06/09	S1-DS1			0	52	3.5	1.2	21		4.5		0.006		0.01		0.22	4.1	6.9	NSDOE				
Carleton	Jeans	Nov/06/09	S1-DS2			0	48	3.7	1.5	21		4.3		0.005		0.01		0.14	3.9	6.8	NSDOE				
Carleton	Jeans	Nov/06/09	S1-DS2			17.6	48			21		4.3		0.005		0.01		0.14	3	6.8	NSDOE				
Carleton	Jeans	Nov/06/09	S1-DS1			23	49.1			44		4.1		0.013		0.01		0.25	4.7	7	NSDOE				
Carleton	Jeans	Dec/01/10	S1-DS1			0	62.4	4.2	1.6	12	0.32	3.9	1.5	0.009	0.005	0.01	0.01	0.13	3.7	7	NSDOE				
Carleton	Jeans	Dec/01/10	S1-DS2			0	69.9	4.2	1.9	10	0.27	3.8	4	0.008	0.005	0.01	0.01	0.12	3.6	7	NSDOE				
Carleton	Jeans	Dec/01/10	S1-DS2			4	69.7		1.8	15	0.32	3.4	1.5	0.005	0.005	0.01	0.01	0.1	4	6.9	NSDOE				
Carleton	Jeans	Dec/01/10	S1-DS1			14	62.7		0.7	19	0.35	3.3	1.5	0.007	0.005	0.01	0.01	0.08	4.7	6.9	NSDOE				
Carleton	Jeans	Dec/01/10	S1-DS2			15	60.9		1.1	23	0.89	3.7	7.6	0.007	0.005	0.01	0.01	0.1	4.7	6.9	NSDOE				
Carleton	Jeans	Dec/23/03				0	53.9	4.2	1.6	17				0.005	0.001	0.01			3.6	6.6	Bynon				
Carleton	Jeans	Dec/23/03				4	63.4	4.05	1.6	9.4				0.005	0.001	0.01			3.8	6.6	Bynon				
Carleton	Jeans	Dec/23/03				15	59.6			16									4	6.7	Bynon				

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	STM Easting	STM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (PCU's)	Turbidity (NTU's)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDT)	pH (from lab)	Pheophytin (ug/L)
Carleton	Jeanne	Oct 23/02				19	67			40									9	6.2	Enviro				
Carleton	Jeanne	Sept 10/09	SL-051			0	50	3.6	1.9	70		4.9		0.009	0.005	0.01		0.16	3.2	6.9	NEDOE				
Carleton	Jeanne	Sept 10/09	SL-052			0	47.6		1.8	70		4.6		0.005	0.005	0.01		0.18	3.1	6.9	NEDOE				
Carleton	Jeanne	Sept 10/09	SL-051			6			0.7					0.006	0.006						NEDOE				
Carleton	Jeanne	Sept 10/09	SL-052			6		3.9	0.7					0.006	0.005						NEDOE				
Carleton	Jeanne	Sept 10/09	SL-051			16	49.5			14		3.4		0.006	0.009	0.03		0.16	3.4	6.7	NEDOE				
Carleton	Jeanne	Sept 10/09	SL-051			19	53.5			15		3.5		0.007	0.003	0.04		0.19	3.7	6.8	NEDOE				
Carleton	Jeanne	Sept 13/09	SL-051			0	50	3.8	1.9	70		4.9		0.005		0.01		0.18	3.2	6.9	NEDOE				
Carleton	Jeanne	Sept 13/09	SL-052			0	47.6	3.9	1.8	70		4.6		0.005		0.01		0.16	3.1	6.8	NEDOE				
Carleton	Jeanne	Sept 13/09	SL-051			6			0.7					0.004							NEDOE				
Carleton	Jeanne	Sept 13/09	SL-052			6			0.7					0.004							NEDOE				
Carleton	Jeanne	Sept 13/09	SL-051			16	49.5			14		3.4		0.005		0.03		0.16	3.4	6.7	NEDOE				
Carleton	Jeanne	Sept 13/09	SL-051			19	53.5			15		3.5		0.007		0.04		0.19	3.7	6.8	NEDOE				
Carleton	Jeanne	August 10/011	SL-056				49.1			13.8	0.36	3.9		0.005	0.003	0.01	0.01	0.12	3.3	6.9	NEDOE				
Carleton	Jeanne	Sept 6/2010	SL-056				50.4		3	12	1.7	3.9	1.9	0.005	0.005	0.01	0.01	0.17	3.9	7	NEDOE				
Carleton	Jeanne	Sept 10/09	SL-056				47.2		1.2	30		4.7		0.006	0.006	0.01		0.016	3.1	6.6	NEDOE				
Carleton	Vaughan	Oct 19/17	VL-051			1.925		1.8	2.16	56	1.45			0.018	0.007	0.03	0.03	0.29			NEDFA	Composite collected by W.S.7 cube from .25 m and 3.6 m		6.6	2.46
Carleton	Vaughan	Aug 24/17	VL-051	362679.35	4867980.05				1.97	27.9	0.9			0.011	0.007	<.01	0.02	0.23			Lignetec			6.8	3.82
Carleton	Vaughan	Aug 24/17	VL-052	362327.79	4864876.48	0.75			1.87	19.3	0.74			0.017	0.007	<.01	0.02	0.39			Lignetec			6.1	4.33
Carleton	Vaughan	Aug 24/17	VL-052 Dupl	362327.79	4864876.48				1.87	18.8				0.011	0.007						Lignetec				3.78
Carleton	Vaughan	Aug 24/17	VL-051	362360.86	4867660.17	1.75		1.625	16.7	81.2	1.69			0.015	0.01	<.01	0.02	0.39			Lignetec			6.3	10.4
Carleton	Vaughan	Aug 24/17	VL-051	362360.86	4867660.17	17.9		1.625		139	3.35			0.136	0.103	<.01	0.14	0.91			Lignetec			7.2	
Carleton	Vaughan	Aug 24/17	VL-052	362465.86	4864791.13			0.875	2.22	193	0.63			0.017	0.006	<.01	0.02	0.38			Lignetec			6.2	3.48
Carleton	Vaughan	Aug 24/17	VL-052	362465.86	4864791.13	8		0.875		176	0.83			0.012	0.011	<.01	0.02	0.38			Lignetec			6.2	
Carleton	Vaughan	Aug 24/17	VL-051	361319	4863318	0.35		0.875	2.69	161	0.91			0.017	0.011	<.01	0.03	0.33			Lignetec			6.4	8.8
Carleton	Vaughan	May 10/17	VL-DS-1	Not known		1.675		1.55	2.69	69.7	0.82			0.017	0.006	<.01	0.02	0.26				Composite collected by W.S.7 cube from .25 m and 3.1 m		6.4	5
Carleton	Vaughan	Oct 16/16	VL-DS-1	Not known		2.525		2.4	2.27	36.9	1.24			0.014	0.006	0.03		0.22	1.6			Composite collected by W.S.7 cube from .25 m and 4.8 m		6.4	2.4
Carleton	Vaughan	Aug 24/16	VL-051	Not known		1.925		1.3	2.67	41.8	1.22			0.008	0.003	<.01		0.21	1.4			Composite collected by W.S.7 cube from .25 m and 3.6 m		6.4	
Carleton	Vaughan	Aug 24/16	VL-051	Not known		13.3		1.3		68.1	4.83			0.053	0.041	<.01		0.33	6.3					7	
Carleton	Vaughan	Aug 22/16	VL MC	362484	4867704	0.25	33.6													6.97		Open at MC Cove at 11 m. overcast	23.6		
Carleton	Vaughan	May 2/16	VL-051	Not known		0.8		1.3													John	Composite collected by W.S.7 cube from .25 m and 3.6 m			
Carleton	Vaughan	May 2/16	VL-053	Not known		1.425		1.3	15	65	0.77			0.018	0.009	<.01		0.26	1.2			Composite collected by W.S.7 cube from .38 m and 3.6 m		6.1	
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	0.75	29.5	1.9												6.74	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	1	29.5	1.9												6.72	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	2	29.5	1.9	4.3	30.5	1.74			0.014	0.004	0.04		0.24	1.8	6.7	John	Composite collected at .25 and 3.8 m	23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	3	29.5	1.9												6.19	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	4	29.5	1.9												6.19	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	5	29.4	1.9												6.18	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	6	29.4	1.9												6.17	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	7	29.3	1.9												6.17	John		23.4		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	8	29.3	1.9												6.17	John		24.06		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	9	29.2	1.9												6.17	John		24.06		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	10	29.3	1.9												6.16	John		24.06		
Carleton	Vaughan	Oct 19/16	VL-051	364386	4867599	11	29.2	1.9												6.17	John		24.06		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	0.75	34.7	1.8												6.67	John		23.1		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	1	34.7	1.8												6.59	John		23.1		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	2	34.7	1.8	10.0	57	1.31			0.010	0.003	<.01		0.26	1.3	6.62	John	Composite sample at 0.25 and 3.6 m	23.1		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	3	34.6	1.8												6.04	John		23.73		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	3.6	34.7	1.8												6.96	John		23.73		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	4	34.2	1.8												6.82	John		23.73		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	5	34.1	1.8												6.67	John		23.6		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	6	34	1.8												6.66	John		24.Nmgy		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	7	33.8	1.8												6.64	John		23.96		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	8	33.8	1.8												6.16	John		23.8		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	9	61.7	1.8												6.17	John		23.8		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	10	61.7	1.8												6.16	John		23.8		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	11	61.9	1.8												6.16	John		24.46		
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	12		1.8		256	11.4			0.083	0.03	<.01		0.61	7.9		John				
Carleton	Vaughan	August 18/16	VL-051	364393	4867643	13	66	1.8												6.28	John		24.46		
Carleton	Vaughan	May 12/16	VL-051	reach empty to primary		0.75	40.4	1.5												5.68	John		26.4		
Carleton	Vaughan	May 12/16	VL-051			1	30.3	1.5												5.60	John		26.66		
Carleton	Vaughan	May 12/16				1.5		1.5	9.9	66.4	0.84			0.073	0.018	0.09		0.32	<1		John	Composite from 0.25 and 3 m	26.63		
Carleton	Vaughan	May 12/16	VL-051			2	30.4	1.5												5.67	John		26.66		
Carleton	Vaughan	May 12/16	VL-051			3	30.3	1.5												5.65	John		26.66		

Table D.4: Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from DB)	Pheophytin (ug/L)
Criterion	Vaughan	May 12/16	VL-051			6	30.3	1.5												5.66	John		26.65		
Criterion	Vaughan	May 12/16	VL-051			5	30.7	1.5												5.63	John		26.65		
Criterion	Vaughan	May 12/16	VL-051			6	30.2	1.5												5.61	John		27.3		
Criterion	Vaughan	May 12/16	VL-051			7	30	1.5												5.59	John		26.65		
Criterion	Vaughan	May 12/16	VL-051			8	30	1.5												5.59	John		26.65		
Criterion	Vaughan	May 12/16	VL-051			9	30	1.5												5.58	John		26.65		
Criterion	Vaughan	May 12/16	VL-051			10	30	1.5												5.58	John		27.3		
Criterion	Vaughan	May 12/16	VL-051			11	30	1.5												5.58	John		27.3		
Criterion	Vaughan	May 12/16	VL-051			12	30.1	1.5												5.6	John		27.3		
Criterion	Vaughan	October 29/15	VL-051	764384	4867649	0.25	29.7	1.59												6.17	John		23.75		
Criterion	Vaughan	October 29/15	VL-051	764384	4867649	1	29.7	1.59	0.6	65.1	1.5			0.015	0.003	0.07		0.38	1.9	6.17	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			2	29.7	1.59												6.17	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			3	29.7	1.59												6.11	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			4	29.7	1.59												6.11	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			5	29.6	1.59												6.11	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			6	29.6	1.59												6.13	John		23.75		
Criterion	Vaughan	October 29/15	VL-051			7	29.9	1.59												6.13	John		23.4		
Criterion	Vaughan	October 29/15	VL-051			8	29.7	1.59												6.13	John		23.4		
Criterion	Vaughan	October 29/15	VL-051			9	29.7	1.59												6.13	John		23.4		
Criterion	Vaughan	October 29/15	VL-051			10	29.6	1.59												6.13	John		23.4		
Criterion	Vaughan	October 29/15	VL-051			11	29.6	1.59												6.13	John		23.4		
Criterion	Vaughan	October 29/15	VL-051			16	41.8	1.59		304	6.75			0.097	0.012	<0.01		1.79	14.2	6.77	John		68.9		
Criterion	Vaughan	August 18/14	VL-051	764653	4867649	0.25	37.5	1.48	16	54.9	3.49			0.012	0.003	<0.01		0.39	1.9	6.37	John	Bluish Bloom Present	22.1		
Criterion	Vaughan	August 18/14	VL-051			1	37.9	1.48												6.31	John		23.1		
Criterion	Vaughan	August 18/14	VL-051			2	37.5	1.48												6.27	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			3	37.5	1.48												6.23	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			4	37.8	1.48												6.21	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			5	37.8	1.48												6.19	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			6	37.8	1.48												6.13	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			7	37.8	1.48												6.17	John		22.75		
Criterion	Vaughan	August 18/14	VL-051			8	53.4	1.48												6.01	John		23.4		
Criterion	Vaughan	August 18/14	VL-051			9	63.1	1.48												6.28	John		31.63		
Criterion	Vaughan	August 18/14	VL-051			10	63.7	1.48												6.33	John		33.15		
Criterion	Vaughan	August 18/14	VL-051			11	42.6	1.48												6.31	John	Dropped to 13 m depth, did not take a deeper sample to measure	33.8		
Criterion	Vaughan	August 18/14	VL-051			12.5				108.5	4.15			0.04	0.02	<0.01		0.56	3		John				
Criterion	Vaughan	May 7/14	VL-051	764721	4867665	0.25	24.5	1.34	3.2	42.6	0.58			0.030	0.004	0.07		0.75		5.79	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			1	24.5	1.34												5.78	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			2	24.5	1.34												5.77	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			3	24.5	1.34												5.76	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			4	24.5	1.34												5.72	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			5	24.2	1.34												5.71	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			6	23.9	1.34												5.67	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			7	23.8	1.34												5.64	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			8	23.8	1.34												5.62	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			9	23.8	1.34												5.62	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			10	23.8	1.34												5.61	John		21.45		
Criterion	Vaughan	May 7/14	VL-051			11	23.8	1.34												5.61	John		21.45		
Criterion	Vaughan	October 29/15	VL-051	764396	4867673	0.25	29.5	1.7	3.3	92.7	1.03			0.026	0.008	0.07		0.42	2.2	6.01	John		28.35	6.4	
Criterion	Vaughan	October 29/15	VL-051			1	29.7	1.7												6.03	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			2	29.7	1.7												6.04	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			3	29.8	1.7												6.04	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			4	29.8	1.7												6.04	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			5	29.7	1.7												6.05	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			6	29.7	1.7												6.03	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			7	29.7	1.7												6.05	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			8	29.7	1.7												6.03	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			9	29.7	1.7												6.04	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			10	29.7	1.7												6.03	John		28.35		
Criterion	Vaughan	October 29/15	VL-051			11	29.7	1.7												6.04	John		28.35		
Criterion	Vaughan	August 12/13	VL-051	764371	4867673	0.25	39.9	1.17	16	61	1.36			0.02	<0.003	<0.01		0.79	7.2	6.74	John		26.65	4.5	
Criterion	Vaughan	August 12/13	VL-051			0.25			14					0.016	<0.003						John	Visible surface scums			
Criterion	Vaughan	August 12/13	VL-051			1	39.9	1.17												6.34	John		26.65		
Criterion	Vaughan	August 12/13	VL-051			2	40	1.17												6.33	John		26.65		
Criterion	Vaughan	August 12/13	VL-051			3	40	1.17												6.32	John		26.65		
Criterion	Vaughan	August 12/13	VL-051			4	39.8	1.17												6.1	John		27.3		
Criterion	Vaughan	August 12/13	VL-051			5	39.7	1.17												6.03	John		27.3		
Criterion	Vaughan	August 12/13	VL-051			6	39.5	1.17												6.02	John		27.3		
Criterion	Vaughan	August 12/13	VL-051			7	39.5	1.17												5.95	John		27.3		
Criterion	Vaughan	August 12/13	VL-051			8	40.4	1.17												5.89	John		28.6		
Criterion	Vaughan	August 12/13	VL-051			9	44	1.17												5.87	John		33.15		
Criterion	Vaughan	August 12/13	VL-051			10	42.9	1.17												5.84	John		33.15		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU)	Turbidity (NTU)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (ug/L)
Carlton	Vaughan	August 13/13	VL-051			11	43.3	1.17												5.89	John		33.8		
Carlton	Vaughan	August 13/13	VL-051			14	37.7	1.17		29.8	2.73			0.016	<0.006	<0.01		0.37	7.1	6.43	John		46.6	4.6	
Carlton	Vaughan	July 6/13	VL-051	266602	4867399	0.25	40	1.5												6.03	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			1	39.3	1.5												6	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			1.5		1.5	2	24.1	1.5			0.015	<0.006		<0.01	0.36	7		John	*rain composite sample at 23 and 2 m		6.6	
Carlton	Vaughan	July 6/13	VL-051D			1.5		1.5	2					0.013	<0.006						John	*collected			
Carlton	Vaughan	July 6/13	VL-051			2	39	1.5												5.97	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			3	39	1.5												5.99	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			4	38.9	1.5												5.98	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			5	38.9	1.5												5.97	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			6	38.7	1.5												5.79	John		27.95		
Carlton	Vaughan	July 6/13	VL-051			7	38.6	1.5												5.69	John		28.6		
Carlton	Vaughan	July 6/13	VL-051			8	38.8	1.5												5.63	John		28.6		
Carlton	Vaughan	July 6/13	VL-051			9	39	1.5												5.6	John		29.25		
Carlton	Vaughan	July 6/13	VL-051			10	39.3	1.5												5.55	John		29.9		
Carlton	Vaughan	July 6/13	VL-051			17	40.3	1.5		8.1	1.75			0.072	0.012	<0.01		0.31	3.2	6.74	John		30.55	6.6	
Carlton	Vaughan	Apr 30/13	VL-051	262491	4867394	0.5	45	1.65	6.2	27.9	8.79			0.019	0.007	0.06		0.32	1.5	5.95	John		30	6.3	
Carlton	Vaughan	Apr 30/13	VL-051			1	45	1.65												5.99	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			2	45	1.65												6.01	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			3	45	1.65												5.99	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			4	45	1.65												5.96	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			5	46	1.65												5.97	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			6	46	1.65												5.98	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			7	46	1.65												6	John		30		
Carlton	Vaughan	Apr 30/13	VL-051			8	46	1.65												6	John		30		
Carlton	Vaughan	Aug 17/2011	VL-052				32.7			10.7	1.13	10.9		0.006	<0.003	0.01	0.03	0.28	7	5.7	NSDOE				
Carlton	Vaughan	Aug 17/2011	VL-051				44.3			37	1.43	8.7		0.009	0.003	0.01	0.07	0.18	1.9	6.6	NSDOE				
Carlton	Vaughan	Oct 28/09	VL-051				44.6		7.3	33	0.84	8.6	1.6	0.014	0.006	0.01	0.0	0.019	1.9	6.3	NSDOE				
Carlton	Vaughan	Oct 28/09	VL-051				47.7		0.9	34		10.8		0.034	0.016	0.06		0.41	1.8	6.7	NSDOE				
Carlton	Vaughan	Oct 28/09	VL-052				38		9.4	104		14.9		0.014	0.003	0.08		0.41	1	6.6	NSDOE				
Carlton	Vaughan	Aug/01/13				0	47.9	2.6		25						0.05		0.06	2	6	NSDOE				
Carlton	Vaughan	Aug 17/2011	VL-051			0	38.9	1.9	2.6	33	1.07	7.8		0.01	0.003	0.01	0.04	0.22	1.5	6.2	NSDOE				
Carlton	Vaughan	Aug 17/2011	VL-051			1.5	53.3			117	4.89	7.6		0.087	0.04	0.01	0.047	0.43	1.9	7.7	NSDOE				
Carlton	Vaughan	Oct/28/09	VL-051			0	47.5	1.7	2.8	39	1.3	8.8	1.6	0.018	0.018	0.04	0.03	0.34	1.4	6.2	NSDOE				
Carlton	Vaughan	Oct/27/13	VL-052			0	36.6	1.75	1.5	173		13.8		0.019	0.003	0.04		0.37	1	6.5	NSDOE				
Carlton	Vaughan	Oct 3/2010	VL-051			17	35.7		0.01	181	1.49	9	7	0.078	0.043	0.01	0.19	0.3	0.9	7.1	NSDOE				
Carlton	Vaughan	Oct/28/09	VL-051			0	47.3	0.9	1.3	38		10.4		0.032	0.014	0.06		0.4	1.8	6.2	NSDOE				
Carlton	Vaughan	Oct/28/09	VL-052			0	37.8		0.5	180		19.4		0.019	0.008	0.07		0.4	1	6.7	NSDOE				
Carlton	Vaughan	Oct/28/09	VL-051			16.5	43.9			38		10.5		0.034	0.016	0.06		0.39	1.9	6.2	NSDOE				
Carlton	Vaughan	Sept/06/08	VL-051			0	41.4	3	3.9	32		8.4		0.003	0.003	0.01		0.17	2	7.7	NSDOE				
Carlton	Vaughan	Sept/06/08	VL-051			9.5	50.3			94				0.012	0.006	0.01		0.63	6.1	6.3	NSDOE				
Carlton	Vaughan	Sept/06/08	VL-051			14	48.8			148				0.063	0.005	0.01		0.73	6.1	6.3	NSDOE				
Carlton	Vaughan	Aug 17/2011	VL-051				34.1			97	0.97	10.4		0.011	0.003	0.01	0.07	0.27	1	5.3	NSDOE				
Carlton	Vaughan	Oct/27/13	VL-051				39.6		0.9	121	0.75	14	1.5	0.017	0.006	0.04	0.03	0.33	1	5.7	NSDOE				
Carlton	Vaughan	Oct/28/09	VL-051				39.4		0.6	113		10		0.017	0.004	0.03		0.42	1	4.8	NSDOE				
Turner	Beaverhouse	Oct 23/13	D51	273693	4881879	0.25	23.8	0.67	3.1	145.7	1.23			0.009	<0.005	<0.01		0.36	1.7	5.27	John		20.15	5.7	
Turner	Beaverhouse	Oct 23/13	D51			1	23.9	0.67												5.97	John		20.15		
Turner	Beaverhouse	Oct 23/13	D51			2	23.9	0.67												6.27	John		20.15		
Turner	Beaverhouse	Oct 23/13	D51			3	24.1	0.67												6.23	John		20.15		
Turner	Beaverhouse	Aug 14/13	D51	273693	4881879	0.25	29	0.75	4	151.7	6.91			0.015	<0.005	<0.01		0.36	1.7	5.36	John	*sample not composite	19.5	5.7	
Turner	Beaverhouse	Aug 14/13	D51			1	29	0.75												5.36	John		19.5		
Turner	Beaverhouse	Aug 14/13	D51			1.5	29	0.75												5.33	John		19.5		
Turner	Beaverhouse	Aug 14/13	D51			2	27	0.75												5.3	John		19.5		
Turner	Beaverhouse	Aug 14/13	D51			3	28.5	0.75												5.16	John		20.15		
Turner	Beaverhouse	Aug 14/13	D51			4	29.5	0.75												4.94	John		21.45		
Turner	Beaverhouse	Aug 14/13	D51			5	29	0.75		314.6	19.5			0.02	<0.005	<0.01		0.6	1.6	4.97	John		20.8	5.7	
Turner	Beaverhouse	July 3/13	D51	275686	4881584	0.25	26	0.775	2.9	161.1	1.22			0.012	<0.005	<0.01		0.34	<1.0	5	John	*following 3-4 days of rain, at times heavy. Sample not composite, collected at 10:20 A.M.	19.5	6.1	
Turner	Beaverhouse	July 3/13	D51			1	26	0.775												4.97	John	*following 3-4 days of rain, at times heavy	19.5		
Turner	Beaverhouse	July 3/13	D51			2	26.1	0.775												4.92	John	*following 3-4 days of rain, at times heavy	19.5		
Turner	Beaverhouse	July 3/13	D51			3	26.1	0.775		173.9	1.02			0.012	<0.005	<0.01		0.36	<1.0	4.83	John	*following 3-4 days of rain, at times heavy	19.5	5.7	
Turner	Beaverhouse	Apr 8/2013	D51	275390	4881632	0.5	39	2.61	0.5	41	0.49			0.005	<0.005	<0.01		0.17	<1.0	5.16	John		25	6.3	
Turner	Beaverhouse	Apr 8/2013	D51			1	39	2.61												5.16	John		25		
Turner	Beaverhouse	Apr 8/2013	D51			2	39	2.61												5.15	John		25		
Turner	Beaverhouse	Apr 8/2013	D51			3	39	2.61												5.13	John		25		
Turner	Perch	May 14/15	D51	274187	4880950	0.25	22.9	1												4.71	John		21.15		
Turner	Perch	May 14/15	D51			1	23.9	1												4.72	John		20.15		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU's)	Turbidity (NTU's)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (ug/L)
Tusket	Keats	May 1975	Dy-1			2	23.9	1												6.73	John		20.16		
Tusket	Keats	May 1975	Dy-1			3	23.9	1												6.73	John		20.16		
Tusket	Keats	May 1975	Dy-1			4	23.9	1												6.73	John		20.16		
Tusket	Keats	May 1975	Dy-1			5	23.6	1												6.73	John		20.16		
Tusket	Keats	May 1975	Dy-1			6	23.7	1												6.73	John		19.6		
Tusket	Keats	May 1975	Dy-1			7	23.6	1												6.73	John		20.16		
Tusket	Keats	May 1975	Dy-1			8	23.6	1												6.69	John		20.8		
Tusket	Keats	May 1975	Dy-1			9	23.1	1												6.63	John		20.8		
Tusket	Keats	May 1975	Dy-1			10	21	1												6.68	John		20.8		
Tusket	Keats	Oct 28/14	Dy-1	274724	4881026	0.25	30.6	0.68	1.8	215	2			0.012	0.003	<0.1		0.66	<1.0	6.66	John		26.66		
Tusket	Keats	Oct 28/14	Dy-1			1	30.5	0.68												6.66	John		26.66		
Tusket	Keats	Oct 28/14	Dy-1			2	30.5	0.68												6.66	John		26.66		
Tusket	Keats	Oct 28/14	Dy-1			3	30.4	0.68												6.66	John		26.66		
Tusket	Keats	Oct 28/14	Dy-1			4	30.5	0.68												6.66	John		26.65		
Tusket	Keats	Oct 28/14	Dy-1			5	30.1	0.68												6.66	John		26		
Tusket	Keats	Oct 28/14	Dy-1			6	30	0.68												6.67	John		26		
Tusket	Keats	Oct 28/14	Dy-1			7	29.9	0.68												6.67	John		26		
Tusket	Keats	Oct 28/14	Dy-1			8	30	0.68												6.67	John		26		
Tusket	Keats	Oct 28/14	Dy-1			9	29.8	0.68												6.69	John		26		
Tusket	Keats	Aug 19/14	Dy-1	274092	4880996	0.25	30.5	0.53	3	28.4	1.2			0.073	0.004	<0.1		0.47	<1	6.83	John	dive level very low	20.8		
Tusket	Keats	Aug 19/14	Dy-1			1	30.5	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			2	30.5	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			3	30.5	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			4	30.4	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			5	30.4	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			6	30.4	0.53												6.84	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			7	30.2	0.53												6.83	John		20.8		
Tusket	Keats	Aug 19/14	Dy-1			8	29.2	0.53												6.86	John		21.45		
Tusket	Keats	Aug 19/14	Dy-1			9	29.2	0.53												6.73	John		21.45		
Tusket	Keats	Aug 19/14	Dy-1			10	29.9	0.53		345.8	3.92			0.186	0.004	<0.1		0.97	1.0	6.39	John		21.45		
Tusket	Keats	May 8/14	Dy-1	274097	4881024	0.25	30.2	1.36	1.6	17.1	0.66			[illegible]	<0.005	<0.1		0.71		6.67	John		18.2		
Tusket	Keats	May 8/14	Dy-1			1	30.2	1.36												6.67	John		18.2		
Tusket	Keats	May 8/14	Dy-1			2	30.2	1.36												6.66	John		18.2		
Tusket	Keats	May 8/14	Dy-1			3	30.1	1.36												6.66	John		18.2		
Tusket	Keats	May 8/14	Dy-1			4	30.1	1.36												6.66	John		18.2		
Tusket	Keats	May 8/14	Dy-1			5	30.6	1.36												6.63	John		18.2		
Tusket	Keats	May 8/14	Dy-1			6	30.4	1.36												6.63	John		18.2		
Tusket	Keats	May 8/14	Dy-1			7	30.3	1.36												6.63	John		18.2		
Tusket	Keats	May 8/14	Dy-1			8	30.3	1.36												6.61	John		18.2		
Tusket	Keats	May 8/14	Dy-1			9	30.2	1.36												6.6	John		18.2		
Tusket	Keats	May 8/14	Dy-1			10	30.2	1.36												6.59	John		18.2		
Tusket	Arbains	May 14/15	Dy-1	269230	4867173	0.25	23.8	1.23												6.73	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			1	23.8	1.23												6.74	John		20.16		
Tusket	Arbains	May 14/15	Dy-1			2	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			3	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			4	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			5	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			6	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			7	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			8	23.7	1.23												6.74	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			9	23.6	1.23												6.76	John		19.6		
Tusket	Arbains	May 14/15	Dy-1			10	23.6	1.23												6.73	John		19.6		
Tusket	Arbains	October 31/14	Dy-1	269230	4867173	0.25	25.6	0.67	1.9	18.1	1.08			0.01	0.004	<0.1		0.37	<1.0	6.11	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			1	25.6	0.67												6.11	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			2	25.6	0.67												6.11	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			3	25.6	0.67												6.11	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			4	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			5	25.6	0.67												6.17	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			6	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			7	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			8	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			9	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			10	25.5	0.67												6.12	John		20.8		
Tusket	Arbains	October 31/14	Dy-1			11	25.6	0.67												6.12	John		20.8		
Tusket	Arbains	August 20/14	Dy-1	269230	4867164	0.25	26	0.9	4.7	168.5	0.96			0.015	0.004	<0.1		0.56	<1	6	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			1	27.9	0.9												6	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			2	27.9	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			3	27.9	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			4	27.9	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			5	27.9	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			6	27.9	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			7	27.8	0.9												6.99	John		18.85		
Tusket	Arbains	August 20/14	Dy-1			8	27.8	0.9												6.99	John		18.85		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (FTU)	pH (from lab)	Phaeophytin (ug/L)
Tusser	Albano	August 30/16	Ob-1			9	278	0.9												4.99	John		18.85		
Tusser	Albano	August 30/16	Ob-1			10	278	0.9		178	0.94			0.014	0.003	< 0.1		0.34	41	4.99	John		18.85		
Tusser	Albano	August 30/16	Ob-1			11	278	0.9												4.98	John		18.85		
Tusser	Albano	May 8/16	Ob-1	749235	4867160	0.25	217	0.94	2.8	118.2	0.43			0.007	< 0.03	< 0.1		0.21		4.69	John		18.3		
Tusser	Albano	May 8/16	Ob-1			1	218	0.94												4.69	John		18.3		
Tusser	Albano	May 8/16	Ob-1			2	218	0.94												4.67	John		18.3		
Tusser	Albano	May 8/16	Ob-1			3	218	0.94												4.68	John		18.3		
Tusser	Albano	May 8/16	Ob-1			4	218	0.94												4.66	John		18.3		
Tusser	Albano	May 8/16	Ob-1			5	218	0.94												4.66	John		18.3		
Tusser	Albano	May 8/16	Ob-1			6	218	0.94												4.65	John		18.3		
Tusser	Albano	May 8/16	Ob-1			7	218	0.94												4.65	John		18.3		
Tusser	Albano	May 8/16	Ob-1			8	218	0.94												4.66	John		18.3		
Tusser	Albano	May 8/16	Ob-1			9	218	0.94												4.65	John		18.3		
Tusser	Albano	May 8/16	Ob-1			10	218	0.94												4.65	John		18.3		
Tusser	Albano	May 8/16	Ob-1			11	218	0.94												4.65	John		18.3		
Tusser	Kagawong	Oct 18/17	DS-1	Not taken		1.375		1.25	2.02	87.6	1.6			0.007	0.004	< 0.1	0.02	0.22				Composite collected by Carry Smith at 2.5 m and 2.5 m at 9:40		4.3	2.23
Tusser	Kagawong	Aug 28/17	DS-1	Not taken		1.625		1.25	2.75	86.8	0.74			0.006	0.003	< 0.1	< 0.1	0.21				Composite collected by Carry Smith at 2.5 m and 3 m at 10:30		4.3	2.54
Tusser	Kagawong	Aug 28/17	DS-1	Not taken		1.5		1.25		60.7	2.6			0.061	0.006	< 0.1	0.02	0.22						4.4	
Tusser	Kagawong	May 10/17	DS-1	Not taken		2.125		1.7	1.19	41	0.63			0.007	0.004	< 0.1	0.01	0.18				Composite collected by Carry Smith at 2.5 m and 4 m at 10:30 have haves 5 m. from shore, partly cloudy led to overcast during time on water		4.4	1.84
Tusser	Kagawong	Oct 16/16	DS-1	Not taken		1.925		1.8	3.34	35.8	1.62			0.009	0.003	< 0.1		0.19	1.2		Carry	Composite collected at 2.5 m and 3.75 m at 11:00		4.2	2.48
Tusser	Kagawong	Aug 27/16	DS-1	Not taken		2		1.87	1.49	30.2	0.73			0.007	0.003	< 0.1		0.18	1.4			Composite collected at 2.5 m and 3.75 m		4.4	
Tusser	Kagawong	Aug 27/16	DS-1	Not taken		6		1.87		45.1	1.37			0.008	0.003	< 0.1		0.18	1.7					4.4	
Tusser	Kagawong	May 3/16	DS-1	276843	4849777			2.5														Composite collected by Carry Smith at 0.25 and 5 m			
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	0.25	19.8	2.5												5.79	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	1	19.8	2.5												5.77	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	2	19.8	2.5												5.84	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	2.9		2.5																	
Tusser	Kagawong	May 3/16	DS-1	276843	4849777	2.625		2.5	4.3	57.7	0.66			0.005	0.004	< 0.1		0.19	1.2			Composite collected by Carry Smith at 0.25 and 5 m.		4.1	
Tusser	Kagawong	May 3/16	DS-1	276843	4849777	2.625		2.5	5.2	59.6				0.006	0.004							Duplicate composite collected by Carry Smith at 0.25 and 5 m			
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	3	19.6	2.5												5.8	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	4	19.8	2.5												5.76	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	5	19.7	2.5												5.77	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	6	19.7	2.5												5.73	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	7	19	2.5												5.68	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	8	18.7	2.5												5.67	John		16.9		
Tusser	Kagawong	May 3/16	Ob-1	276843	4849777	9	18.7	2.5												5.5	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	0.25	19.8	2.75												6.17	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	1	19.8	2.75												6.16	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	2	19.8	2.75												6.1	John		16.9		
Tusser	Kagawong	Oct 20/15	DS-1	276796	4849797	3	19.8	2.75	4.2	64.2	1.28			0.009	0.005	< 0.1		0.17	1.3	6.09	John	Composite collected from 0.25 and 5.5 m	16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	4	19.8	2.75												6.09	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	5	19.8	2.75												6.08	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	6	19.8	2.75												6.06	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	7	19.8	2.75												6.08	John		16.9		
Tusser	Kagawong	Oct 20/15	Ob-1	276796	4849797	8	19.8	2.75												6.06	John		16.9		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	0.25	26	2.125												6.11	John		16.25		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	1	26	2.125												6.1	John		16.25		
Tusser	Kagawong	August 26/16	DS-1	276817	4849798	2	26	2.125	6.1	65.6	0.82			0.006	0.004	< 0.1		0.19	1.3	6.04	John	Composite sample at 0.25 and 4.25 M	16.25		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	3	24.5	2.125												5.74	John		16.25		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	4	24.4	2.125												5.64	John		17.66		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	4.25	24.4	2.125												5.63	John		18.3		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	5	24	2.125												5.59	John		18.83		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	6	22.8	2.125												5.57	John		18.66		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	7	21.8	2.125												5.7	John		18.83		
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	7.5	21.6	2.125		74.7	1.43			0.009	0.009	0.02		0.2	1.9		John				
Tusser	Kagawong	August 26/16	Ob-1	276817	4849798	8	21.1	2.125												5.57	John		18.9		
Tusser	Kagawong	May 12/16	Ob-1	276775	4849774	0.25	22	1.5												6.08	John		18.3		
Tusser	Kagawong	May 12/16	Ob-1			1	22	1.5												6.07	John		18.3		
Tusser	Kagawong	May 12/16	Ob-1			1.625	22	1.5	1.8	51.7	0.7			0.006	0.006	0.01		0.2	1.6		John	Composite depth 1.5 and 3 m			

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCU)	Turbidity (NTU)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TBS)	pH (from lab)	Pheophytin (ug/L)
Tusket	Kejimkujik	May 12/16	D5			7	77	5												6.07	John		18.3		
Tusket	Kejimkujik	May 12/16	D5			3	7.8	5												6.04	John		18.3		
Tusket	Kejimkujik	May 12/16	D5			4	20.7	5												6.03	John		18.3		
Tusket	Kejimkujik	May 12/16	D5			5	19.4	5												6.12	John		18.85		
Tusket	Kejimkujik	May 12/16	D5			6	19.3	5												6.7	John		18.85		
Tusket	Kejimkujik	May 12/16	D5			7	19.2	5												6.9	John		18.85		
Tusket	Kejimkujik	May 12/16	D5			8	19.1	5												6.7	John		18		
Tusket	Kejimkujik	October 20/1	D5	276847	4869730	0.75	7.2	0.58	3.9	67.8	0.6			0.006	<0.002	<0.1		0.21	1.3	6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			1	7.1	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			2	7.1	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			3	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			4	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			5	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			6	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			7	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	October 20/1	D5			8	7.2	0.58												6.04	John		16.9		
Tusket	Kejimkujik	August 21/16	D5	276807	4869829	0.75	26.3	0.97												6.04	John		16.25		
Tusket	Kejimkujik	August 21/16	D5			1	26.1	0.97												6.02	John		16.25		
Tusket	Kejimkujik	August 21/16	D5			2	26.1	0.97												6	John		16.35		
Tusket	Kejimkujik	August 21/16	D5			2.07		0.97	3.6	60.8	0.02			0.003	<0.002	<0.1		0.18	1.3		John	Composite depth 2.1 and 2.7 m			
Tusket	Kejimkujik	August 21/16	D5			3	23.9	0.97												5.91	John		16.25		
Tusket	Kejimkujik	August 21/16	D5			4	23.9	0.97												5.84	John		16.25		
Tusket	Kejimkujik	August 21/16	D5			5	24.6	0.97												5.87	John		17.55		
Tusket	Kejimkujik	August 21/16	D5			6	25.7	0.97												5.63	John		19.5		
Tusket	Kejimkujik	August 21/16	D5			7	27.9	0.97												5.63	John		18.85		
Tusket	Kejimkujik	August 21/16	D5			8	27.5	0.97												5.63	John		19.5		
Tusket	Kejimkujik	August 21/16	D5			8.2		0.97		88.7	2.47			0.013	0.003	<0.1		0.07	2.2		John				
Tusket	Kejimkujik	August 21/16	D5			9	26.7	0.97												5.93	John		18.35		
Tusket	Kejimkujik	May 12/16	D5	276859	4869779	0.75	21	0.3	3.3	56.1	0.61			0.004	<0.003	0.07		0.18	<1.0	5.94	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			1	20.9	3.1												5.95	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			2	20.8	3.1												5.92	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			3	20.7	3.1												5.89	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			4	23.1	3.1												5.77	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			4.2	20.1	3.1												5.73	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			5	19.9	3.1												5.71	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			6	19.7	3.1												5.67	John		16.9		
Tusket	Kejimkujik	May 12/16	D5			7	19.5	3.1												5.63	John		17.55		
Tusket	Kejimkujik	May 12/16	D5			8	19.3	3.1		56.6	0.43			0.004	<0.003	0.04		0.19	<1.0	5.68	John		17.55		
Tusket	Kejimkujik	May 12/16	D5			9	19	3.1												5.56	John		17.55		
Tusket	Lake Rose	May 12/16	D5	275536	4869117	0.09	33.7	0.5												6.72	John		19.5		
Tusket	Lake Rose	May 12/16	D5			1	33.6	1.05												6.72	John		19.5		
Tusket	Lake Rose	May 12/16	D5			2	33.5	0.5												6.71	John		19.5		
Tusket	Lake Rose	October 20/1	D5	275704	4868980	0.75	26.5	0.54	2.7	217	4.8			0.07	0.008	<0.1		0.47	<1.0	6.07	John		21.45		
Tusket	Lake Rose	October 20/1	D5			1	26.5	0.54												6.07	John		21.45		
Tusket	Lake Rose	October 20/1	D5			2	26.5	0.54												6.07	John		21.45		
Tusket	Lake Rose	August 21/16	D5	275401	4869143	0.25	30	0.44												6.72	John		20.15		
Tusket	Lake Rose	August 21/16	D5			0.77		0.44	4.9	266.2	2.28			0.031	0.004	<0.1		0.4	<1.0		John	Composite 0.4 m and 1.4 m			
Tusket	Lake Rose	August 21/16	D5			1	29.6	0.44												6.61	John		20.15		
Tusket	Lake Rose	August 21/16	D5			1.3	29.4	0.44												6.9	John		20.15		
Tusket	Lake Rose	August 21/16	D5			2	29.1	0.44		249.6	1.12			0.013	0.004	<0.1		0.42	<1.0	6.87	John		20.15		
Tusket	Lake Rose	August 21/16	D5			2.5	29.1	0.44												6.87	John		20.15		
Tusket	Lake Rose	May 12/16	D5	275537	4869[illegible]	0.75	22.3	0.99	2.7	118	0.67			0.004	<0.003	<0.1		0.22	<1	6.67	John		17.55		
Tusket	Lake Rose	May 12/16	D5			1	22.1	0.99												6.58	John		17.55		
Tusket	Lake Rose	May 12/16	D5			2	21.9	0.99												6.67	John		17.55		
Tusket	Lake Rose	May 12/16	D5			3	21.8	0.99												6.65	John		18.2		
Tusket	Lake Rose	October 20/1	D5	275575	4869138	0.25	27.4	0.55	2.5	252.3	0.69			0.013	<0.003	<0.1		0.44	<1.0	6.65	John	Chlorophyll Replicate 1 0.69 ug/L may be overestimated	23.4	6.9	
Tusket	Lake Rose	October 20/1	D5			1	27.4	0.55												6.65	John		23.4		
Tusket	Lake Rose	October 20/1	D5			2	27.4	0.55												6.63	John		23.4		
Tusket	Lake Rose	October 20/1	D5			3	27.4	0.55												6.63	John		23.4		
Tusket	Lake Rose	August 18/13	D5-2	275548	4869774	0.25	30	0.66	3.5	260	0.88			0.013	<0.003	<0.1		0.42	<1.0	6.71	John	Sample not composite	20.8	6.9	
Tusket	Lake Rose	August 18/13	D5-2			1	30	0.66												6.77	John		20.8		
Tusket	Lake Rose	August 18/13	D5-2			2	30	0.66												6.77	John		20.8		
Tusket	Lake Rose	August 18/13	D5-2			3	29.9	0.66												6.76	John		20.8		
Tusket	Lake Rose	July 8/13	D5	275547	4869179	0.75	32.6	0.68												6.65	John		22.1		
Tusket	Lake Rose	July 8/13	D5			0.6		0.68	9.3	349.9	0.97			0.013	<0.003	<0.1		0.37	<1.0	6.65	John	Composite sample from 1.1 m and 1.2 m collected at 9:50 AM		4.7	
Tusket	Lake Rose	July 8/13	D5			1	32.4	0.68												6.69	John		22.1		
Tusket	Lake Rose	July 8/13	D5			2	32.1	0.68												6.52	John		22.75		
Tusket	Lake Rose	July 8/13	D5			3	32	0.68		258.7	0.96			0.012	<0.003	<0.1		0.35	<1	6.81	John	Measured Chl at 3 m sample on floor of boat and read it, possibly a contamination.	22.75	4.6	
Tusket	Lake Rose	May 12/16	D5			0.1	40	2.5	5	114.9	0.47			0.008	<0.003	<0.1		0.23	<1	6.7	John		26	4.7	

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (µg/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Pheophytin (µg/L)
Tusket	Jordan	May 1/13	D1-1	273439	4866103	1	40	1.75												4.7	John		26		
Tusket	Jordan	May 1/13	D1-1			2	40	1.75												4.66	John		26		
Tusket	Jordan	May 1/13	D1-1			3	40	1.75												4.67	John		26		
Tusket	Quinan River	October 24/12	D31	273246	4866415	0.25	33.1	0.84	1.9	138.4	0.88			0.007	< 0.005	0.02		0.3	< 1.0	4.84	John	Chlorophyll measured 2 days late, may be overestimated	19.5	6	
Tusket	Quinan River	October 24/12	D31			1	33.7	0.84												4.87	John		19.5		
Tusket	Quinan River	October 24/12	D31			1.5	33.1	0.84												4.87	John		19.5		
Tusket	Quinan River	August 16/13	D5-1	273263	4866402	0.25	30.2	0.9	3.4	157.6	1.19			0.008	< 0.005	< 0.01		0.33	< 1.0	4.75	John	Sample not composite. Stop log dam may be open, water high	21.45	4.9	
Tusket	Quinan River	August 16/13	D5-1			1	30.7	0.9												4.74	John		21.45		
Tusket	Quinan River	August 16/13	D5-1			2	30.7	0.9												4.74	John		21.46		
Tusket	Quinan River	July 10/13	D5-1	273248	4866398	0.25	31.3	0.73	4	188.2	0.81			0.011	< 0.005	< 0.01		0.34	< 1.0	4.78	John	Sample not composite, taken from 3.25 m at 12:15 PM	21.45	6	
Tusket	Quinan River	July 10/13	D5-1			1	31.3	0.73												4.77	John		21.45		
Tusket	Quinan River	July 10/13	D5-1			1.5	31.3	0.73												4.79	John		21.45		
Tusket	Quinan River	May 17/13	D5-1	273249	4866390	0.5	36	0.68	1.4	173.4	0.94			0.007	< 0.005	< 0.01		0.36	< 1.0	4.76	John		23	4.8	
Tusket		May 1/13	D5-1			1	36	0.68												4.78	John		23		
Carleton	Raymonds	Oct 18/17	D5-1	Not taken		2.673		2.75	2.3	47.5	1.29			0.013	0.006	0.01	0.02	0.28				Composite collected by Mike Raymond from 25 m and 5.5 m at 7:30		4.6	2.37
Carleton	Raymonds	Aug 16/17	D5-1	Not taken		2.378		2.25	5.3	43.9	1.77			0.012	0.004	< 0.01	< 0.01	0.24				Composite collected by Mike Raymond from 25 m and 5.5 m at 9:00		4.5	4.79
Carleton	Raymonds	Aug 16/17	D5-1	Not taken		1.15		2.25		34.3	2.06			0.024	0.006	< 0.01	0.1	0.3				Collected by Mike Raymond from 1.5 m		4	
Carleton	Raymonds	May 17/17	D5-1	Not taken		1.625		1.5	1.47	39.1	0.47			0.019	0.011	0.01	0.02	0.28				Composite collected by WB Poole from 25 m and 3 m at 0640, following a couple of days of heavy rain and wind		4.4	3.88
Carleton	Raymonds	Oct 16/16	D5-1	Not taken		3.425		3.3	3.07	23.9	0.76			0.013	0.001	< 0.01		0.2	1.9		WB	Composite collected by WB Poole from 25 m and 4.4 m at 09:0		4.4	2.39
Carleton	Raymonds	Aug 30/16	D5-1	Not taken		1.625		1.5	4.37	32.3	1.31			0.009	0.004	< 0.01		0.3	1.4			Composite collected by WB Poole from 25 m and 3.0 m		4.5	
Carleton	Raymonds	Aug 30/16	D5-1	Not taken		0.5		1.5		33.7	1.49			0.009	0.004	< 0.01		0.32	1.6					4.4	
Carleton	Raymonds	Aug 22/16	RSL-B1	344653	4674915	0.25	34.4													4.3		Foggy and overcast, taken just east of main inlet at 8:45	24.05		
Carleton	Raymonds	May 2/16	RSL-D51	Not taken		0.5		1.5													John	Composite collected by WB Poole from 25 m and 3.0 m			
Carleton	Raymonds	May 2/16	RSL-D51	Not taken		1.625		1.5	9.5	67.7	0.68			0.016	0.01	< 0.01		0.26	2.1			Composite collected by WB Poole from 25 m and 3.0 m		6	
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	0.25	28.3	1.7												4.39	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	1	28.3	1.7												4.33	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	2	28.3	1.7	5.1	80.4	1.07			0.016	0.004	0.03		0.34	1.8	4.34	John	Composite collected at 0.25 and 3.5 m	23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	2	28.3	1.7	5.3					0.013	0.004						John	Duplicate			
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	3	28.3	1.7												4.37	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	4	28.3	1.7												4.31	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	5	28.3	1.7												4.3	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	6	28.3	1.7												4.29	John		23.4		
Carleton	Raymonds	Oct 19/15	D5-1	265278	4870716	7	28.3	1.7												4.28	John		23.4		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	0.25	33.5	1.83												4.45	John		23.4		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	1	33.5	1.83												4.44	John		23.4		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	2	33.5	1.83	4.7	88.5	1.89			0.011	0.004	< 0.01		0.27	1.4	4.44	John	Composite sample at 0.25 and 3.7 m	23.4		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	3	33.7	1.83												4.43	John		23.4		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	3.7	33.4	1.83												4.37	John		24.05		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	4	33.7	1.83												4.9	John		24.05		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	5	33	1.83												4.87	John		24.05		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	6	33.5	1.83												4.83	John		24.7		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	7	34.7	1.83												4.87	John		23.35		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	8	44	1.83												4.11	John		31.85		
Carleton	Raymonds	August 19/15	D5-1	265446	4870989	9	43	1.83		81.6	4.47			0.016	0.004	< 0.01		0.46	1	4.7	John		33.8		
Carleton	Raymonds	May 18/15	D5-1	265459	4870757	0.25	30.7	0.96	12	85.8	1.01			0.01	0.011	0.03		0.26	< 1	4.97	John		25.35		
Carleton	Raymonds	May 18/15	D5-1			1	30.1	0.96												4.93	John		25.36		
Carleton	Raymonds	May 18/15	D5-1			2	30.1	0.96												4.93	John		25.36		
Carleton	Raymonds	May 18/15	D5-1			3	30.1	0.96												4.93	John		25.36		
Carleton	Raymonds	May 18/15	D5-1			4	30.2	0.96												4.94	John		25.36		
Carleton	Raymonds	May 18/15	D5-1			5	30.2	0.96												4.94	John		25.35		
Carleton	Raymonds	May 18/15	D5-1			6	30.3	0.96												4.97	John		25.36		
Carleton	Raymonds	May 18/15	D5-1			7	30.3	0.96												4.97	John		26		
Carleton	Raymonds	October 19/1	D5-1	265347	4870631	0.5	29.3	1.33	4.3	52	1.9			0.016	0.003	0.07		0.39	2.1	4.17	John		23.75		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (µg/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TIDS)	pH (from DB)	Phaeophytin (µg/L)
Carleton	Raymond	October 19/11	DS-1			1	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			2	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			3	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			4	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			5	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			6	79.3	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			7	79.3	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			8	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			9	79.4	1.53												6.18	John		23.76		
Carleton	Raymond	October 19/11	DS-1			10	79.3	1.53												6.1	John		23.76		
Carleton	Raymond	August 24/14	DS-1	763974	4870723	0.75	32.7	1.23	16	54	4.44			0.013	0.002	<0.1		0.27	18	6.19	John		22.76		
Carleton	Raymond	August 24/14	DS-1			1	32.7	1.23												6.19	John		22.76		
Carleton	Raymond	August 24/14	DS-1			2	32.7	1.23												6.18	John		22.76		
Carleton	Raymond	August 24/14	DS-1			2.5	32.7	1.23												6.18	John		22.76		
Carleton	Raymond	August 24/14	DS-1			3	32.7	1.23												6.18	John		22.76		
Carleton	Raymond	August 24/14	DS-1			4	32.7	1.23												6.18	John		22.76		
Carleton	Raymond	August 24/14	DS-1			5	32.7	1.23												6.18	John		22.76		
Carleton	Raymond	August 24/14	DS-1			6	32.7	1.23												6.17	John		22.76		
Carleton	Raymond	August 24/14	DS-1			7	32.7	1.23												6.17	John		22.76		
Carleton	Raymond	August 24/14	DS-1			8	32.7	1.23												6.16	John		22.76		
Carleton	Raymond	August 24/14	DS-1			9	32.8	1.23												6.16	John		22.76		
Carleton	Raymond	August 24/14	DS-1			10	33.1	1.23												6.16	John		22.4		
Carleton	Raymond	August 24/14	DS-1			11	40.4	1.23		64.9	3.96			0.014	0.003	<0.1		0.33	4.9	6.13	John		27.3		
Carleton	Raymond	May 11/14	DS-1	763981	4870736	0.25	25.3	1.61	6.7	56.5	0.47			0.017	0.01	0.09		0.23	<1.0	6.74	John		21.46		
Carleton	Raymond	May 11/14	DS-1			1	25.3	1.61												6.76	John		21.46		
Carleton	Raymond	May 11/14	DS-1			2	25.3	1.61												6.76	John		21.46		
Carleton	Raymond	May 11/14	DS-1			2.5	25.3	1.61												6.77	John		21.46		
Carleton	Raymond	May 11/14	DS-1			3	25.3	1.61												6.75	John		21.46		
Carleton	Raymond	May 11/14	DS-1			4	25.3	1.61												6.75	John		21.46		
Carleton	Raymond	May 11/14	DS-1			5	25.3	1.61												6.74	John		21.46		
Carleton	Raymond	May 11/14	DS-1			6	25.7	1.61												6.74	John		21.46		
Carleton	Raymond	May 11/14	DS-1			7	25.1	1.61												6.7	John		21.46		
Carleton	Raymond	May 11/14	DS-1			8	25.1	1.61												6.68	John		21.46		
Carleton	Raymond	May 11/14	DS-1			9	24.9	1.61												6.63	John		21.46		
Carleton	Raymond	May 11/14	DS-1			10	24.8	1.61												6.5	John		21.46		
Carleton	Raymond	May 11/14	DS-1			15	24.6	1.61												6.6	John		23.1		
Tusket	Pile	May 14/13	DS1	764657	4869989	0.75	25.1	1												6.99			21.45		
Tusket	Pile	May 14/13	DS1			1	25	1												6.99			21.45		
Tusket	Pile	May 14/13	DS1			2	24.9	1												6			21.45		
Tusket	Pile	May 14/13	DS1			3	24.7	1												6.02			21.45		
Tusket	Pile	May 14/13	DS1			4	24.7	1												6.02			21.45		
Tusket	Pile	October 21/13	DS1	764671	4863002	0.75	24.1	0.98	4.4	135	0.42			0.017	0.005	0.07		0.55	<1.0	5.92			19.6		
Tusket	Pile	October 21/13	DS1			1	23.9	0.98												5.97			19.6		
Tusket	Pile	October 21/13	DS1			2	23.7	0.98												5.97			19.6		
Tusket	Pile	October 21/13	DS1			3	23.6	0.98												5.93			19.6		
Tusket	Pile	October 21/13	DS1			4	23.3	0.98												5.97			19.6		
Tusket	Pile	August 19/13	DS1	764668	4869911	0.75	29.1	0.95	4.7	156.5	0.74			0.013	0.005	<0.1		0.54	<1.0	5.24			19.6		
Tusket	Pile	August 19/13	DS1			1	29.1	0.95												5.23			19.6		
Tusket	Pile	August 19/13	DS1			2	27.9	0.95												5.23			19.6		
Tusket	Pile	August 19/13	DS1			3	27.8	0.95												5.23			19.6		
Tusket	Pile	May 7/14	DS1	764656	4869988	0.75	20.7	0.68	2.7	<0.1	0.53			0.013	0.005	<0.1		0.29		4.85			18.2		
Tusket	Pile	May 7/14	DS1			1	20.7	0.68												4.86			18.2		
Tusket	Pile	May 7/14	DS1			2	20.7	0.68												4.86			18.2		
Tusket	Pile	May 7/14	DS1			3	20.7	0.68												4.83			18.2		
Tusket	Pile	May 7/14	DS1			4	20.7	0.68												4.83			18.2		
Tusket	Pile	Oct 23/13	DS1	764667	4869986	0.25	26.2	0.643												4.87			21.45		
Tusket	Pile	Oct 23/13	DS1			0.72			2.3	208.6	6.7			0.013	0.003	0.01		0.42	<1.0			Composite sample, 25 and 1.2 m		6.1	
Tusket	Pile	Oct 23/13	DS1			1	26	0.643												4.97			21.45		
Tusket	Pile	Oct 23/13	DS1			2	26	0.643												4.94			21.45		
Tusket	Pile	Oct 23/13	DS1			3	25.9	0.643												5			21.45		
Tusket	Pile	Aug 14/13	DS1	764659	4863011	0.75	31.8	0.71												5.04	John		21.45		
Tusket	Pile	Aug 14/13	DS3			0.9		0.73	3.3	193	1.5			0.014	<0.005	<0.1		0.39	<1.0		John	Composite sample, 25 and 1.5 m		6.9	
Tusket	Pile	Aug 14/13	DS1			1	31.5	0.73												5.05	John		21.45		
Tusket	Pile	Aug 14/13	DS1			1.5	31.5	0.73												5.04	John		21.45		
Tusket	Pile	Aug 14/13	DS1			2	31.5	0.73												5.04	John		21.45		
Tusket	Pile	Aug 14/13	DS1			3	31.5	0.73												5.03	John		23.1		
Tusket	Pile	Aug 14/13	DS1			4	30.6	0.75		181.6	0.61			0.019	0.009	0.01		0.4	<1.0	5.07	John		21.45	6.3	
Tusket	Pile	July 10/13	DS1	764476	4863036	0.25	32.2	0.76	4.1	224.1	0.92			0.011	<0.005	<0.1		0.38	<1.0	4.72	John	[illegible] composite	23.1	6.6	
Tusket	Pile	July 10/13	DS1			1	32.7	0.76												4.72	John		23.1		
Tusket	Pile	July 10/13	DS1			1.5	32.2	0.76												4.73	John		23.1		

Table D.4 Historical Analytical Database

Waterbody	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrate-Nitrite (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TBS)	pH (from lab)	Phosphorus (ug/L)
Tusket	Rite	July 16/13	D51			2	32.2	0.75												4.73	John		23.1		
Tusket	Rite	July 16/13	D51			3	32.2	0.75												4.73	John		23.1		
Tusket	Rite	July 16/13	D51			4	32.2	0.75												4.73	John		23.1		
Tusket	Rite	July 16/13	D51			6.5	32.2	0.75		23.2	0.77			0.017	<0.005	<0.1		0.37	<1	4.73	John		23.1	6.9	
Tusket	Rite	May 6/13	D51	261444	4867[illegible]	0.5	30.5	0.95	2.5	10.6	0.86			0.011	<0.005	<0.1		0.23	<1.0	4.97	John		26.35	6.1	
Tusket	Rite	May 6/13	D51			1	30.5	0.95												4.94	John		26.35		
Tusket	Rite	May 6/13	D51			2	30.5	0.95												4.93	John		26.35		
Tusket	Rite	May 6/13	D51			3	29.9	0.95												4.93	John		26.35		
Tusket	Rite	May 6/13	D51			4	29.9	0.95												4.79	John	Sample not composite, taken from 3.25 m	23.1		
Tusket	Rite		D51																						
Tusket	Rite		D51																						
Tusket			D51																						
Tusket	Salmon River	Oct 21/17	D51	Not taken		0.425		1.3	1.39	26	0.94			0.012	0.004	0.02	0.02	0.47				Composite of .25 m and 2.5 m by Cory Cook at 9:30 A.M.		4.3	1.85
Anna	Salmon River	Aug 17/17	D51	Not taken		0.425		1.38	2.29	108	0.72			0.009	0.004	<0.1	0.03	0.46				Composite of .25 m and 5 m by Cory Cook at 8 A.M.		4.2	3.2
Anna	Salmon River	Aug 17/17	D51	Not taken		3		1.38		104	0.93			0.01	0.007	<0.1	0.02	0.38	4.3						
Anna	Salmon River	May 4/17	D51	Not taken		2		1.75	0.88	72.4	0.85			0.011	0.006	<0.1	0.02	0.26				Composite of .25 m and 4 m collected by Cory Cook at 11:30 A.M. Sample sent 3 days late, so data		3.9	1.47
Anna	Salmon River	May 4/17	D51	Not taken		3		1.75		77.6	1.13			0.01	0.005	<0.1	0.02	0.25				Collected by Cory Cook at 11:30 A.M.		4	
Anna	Salmon River	Oct 18/16	D51	Not taken		2.625		2.25	2.22	34.3	0.83			0.015	0.005	<0.1		0.25	1.5			Composite of .25 and 5 m, sampling at 10 A.M. by Cory Cook		4.4	1.9
Anna	Salmon River	Aug 21/16	D51	Not taken		2.375		2.25	9.99	63.3	1.50			0.016	0.003	<0.1		0.28	1.4			Composite of .25 and 4.5 m, sampling at 1 P.M.		4.4	
Anna	Salmon River	May 3/16	D51	Not taken		3.5		2.25		37.7	0.89			0.018	0.004	<0.1		0.29	1.3					4.3	
Anna	Salmon River	May 3/16	D51	Not taken		0.25		1.425													John	Composite of .25 and 2.85 m by Cory Cook and Brett McCarthy			
Anna	Salmon River	May 3/16	D51	Not taken		1.55		1.425	2.3	84	0.64			0.01	0.004	<0.1		0.28	1.1			Composite of .25 and 2.85 m by Cory Cook and Brett McCarthy			
Anna	Salmon River	Oct 18/15	D51	739480	4861160	0.75	34.9	3												4.09	John		29.25		
Anna	Salmon River	Oct 18/15	D51	739480	4861160	1	34.9	3	4.7	103	0.95			0.013	0.004	0.02		0.34	2.1	4.08	John	Composite sample from 0.25 and 2.6 m	29.25		
Anna	Salmon River	Oct 18/15	D51	739480	4861160	2	34.7	1.3												4.08	John		29.25		
Anna	Salmon River	Oct 18/15	D51	739480	4861160	3.5	34.7	1.3												4.07	John		29.25		
Anna	Salmon River	August 18/15	D51	739318	4861083	0.75	41.4	1.55												4.31	John		27.3		
Anna	Salmon River	August 18/15	D51	739318	4861083	1	41.4	1.55												4.7	John		27.3		
Anna	Salmon River	August 18/15	D51	739318	4861083			1.55	4.9	90.4	1.11			0.014	0.004	<0.1		0.74	3.4		John	Composite of .25 and 2 m			
Anna	Salmon River	August 18/15	D51	739318	4861083	2	41.4	1.55												4.17	John		27.3		
Anna	Salmon River	August 18/15	D51	739318	4861083	3	40.4	1.55												5.6	John		27.95		
Anna	Salmon River	August 18/15	D51	739318	4861083	4	40.7	1.55		98.5	1.78			0.016	0.004	<0.1		0.77	1.4	5.69	John		27.95		
Anna	Salmon River	May 19/15	D51	739362	4861081	0.75	34.6	0.7												5.74	John		27.3		
Anna	Salmon River	May 19/15	D51	739362	4861081	1	34.6	0.7												5.74	John		27.3		
Anna	Salmon River	May 19/15	D51	739362	4861081	1.5	34.5	0.7												5.75	John		27.3		
Anna	Salmon River	May 19/15	D51	739362	4861081	2	34.5	0.7												5.74	John		27.3		
Anna	Salmon River	May 19/15	D51	739362	4861081	3	34	0.7												5.67	John		27.3		
Anna	Salmon River	May 19/15	D51	739362	4861081	4	34.4	0.7												5.65	John		27.95		
Anna	Salmon River Lake		D51					0.7																	
Bellevaux Cr	Bellevaux	Aug 17/16	D51	736408	4912158	0.25	50.5	57.3												6.95	John		33.15		
Bellevaux Cr	Bellevaux	Aug 17/16	D51	736408	4912158	1	50.5	57.3												6.88	John		33.15		
Bellevaux Cr	Bellevaux	Aug 17/16	D51	736408	4912158	1.5	50.5	57.3												6.96	John		33.15		
Anna	Bernwood	August 18/15	D51	739910	4867907	0.25	37.5	0.99												6.79	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	1	37.5	0.99												6.15	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	2	37.5	0.99												6.07	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	3	36.5	0.99												5.9	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	4	35.7	0.99												5.78	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	5	34.8	0.99												5.56	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	6	33.1	0.99												5.38	John		24.7		
Anna	Bernwood	August 18/15	D51	739910	4867907	7	32.1	0.99												5.35	John		24.7		
Anna	Bernwood	August 18/15	D52	739944	4867027	0.25	36.8	0.93												4.04	John	No e Agard 33	24.7		
Anna	Bernwood	August 18/15	D52	739944	4867027	1	36.8	0.93												4.01	John		24.7		
Anna	Bernwood	August 18/15	D52	739944	4867027	1.5	36.7	0.93												3.98	John		24.7		
Anna	Bernwood	August 18/15	D52	739944	4867027	2	36.6	0.93												3.97	John		24.7		
Anna	Bernwood	August 18/15	D52	739944	4867027	3	36.5	0.93												3.91	John		24.7		
Anna	Agard	Aug 30/16	D52	740813	4867008	0.25	60	1.4												4.78	John		25.35		
Anna	Agard	Aug 30/16	D52	740813	4867008	1	59.7	1.4												4.16	John		25.35		
Anna	Agard	Aug 30/16	D52	740813	4867008	2	59.5	1.4												4.06	John		24.7		
Anna	Agard	Aug 30/16	D52	740813	4867008	2.9	59.5	1.4												3.97	John		25.35		

Table D.4 Historical Analytical Database

Watershed	Lake	Date	Station	UTM Easting	UTM Northing	Depth (m)	Conductivity (uS/cm)	Secchi (m)	Chlorophyll (ug/L)	Color (TCUs)	Turbidity (NTUs)	Total Organic Carbon (mg/L)	Suspended Sediments (mg/L)	Total Phosphorus (mg/L)	Ortho-phosphorus (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia (mg/L)	Total Nitrogen (mg/L)	Alkalinity (mg/L)	Laboratory pH	SOURCE	Notes	Turbidity (TDS)	pH (from lab)	Phaeophytin (ug/L)
Anna	Agard	Aug 30/18	OS2	7478[illegible]3	4867[illegible]3	3	34.6	1.4												6.4	John		25.85		
Anna	Anna	Aug 17/17	SE	66 00484	66 08299	0.25			2.76	48.9	0.66			0.006	0.003	< 0.01	0.01	0.29				Collected from shoreline at 1.45 A.M. by John Sadowski using hook	0.66	6.3	3.9
Anna	Anna	Aug 26/14	OC	738194	4882126	0.25	38.4	1.45	5	48.4	0.61			0.006	<003	< 0.01		0.19	13	6.17			26.25		
Anna	Anna	Aug 26/14	OC	738194	4882126	1	38.4	1.45												6.16			26.65		
Anna	Anna	Aug 26/14	OC	738194	4882126	2	38.3	1.45												6.16			26.65		
Anna	Anna	Aug 26/14	OC	738194	4882126	2.5	38.2	1.45												6.13			26.65		
Anna	Anna	Aug 26/14	OC	738194	4882126	3	38.1	1.45												6.13			26.65		
Anna	Anna	Aug 26/14	PW	738754	4880975	0.25	31.4	2.79	3.4	49.5	0.57			0.004	< 002	< 01		0.22	14	6.17			26.65		
Anna	Anna	Aug 26/14	PW	738754	4880975	1	31.4	2.79												6.17			26.65		
Anna	Anna	Aug 26/14	PW	738754	4880975	1.5	31.4	2.79												6.16			26.65		
Anna	Anna	Aug 26/14	PW	738754	4880975	2	30.5	2.79												6.09			26.65		
Anna	Black Bog Bog	Aug 26/14	LAB	739394	4878[illegible]5	0.25	49.7	3	< 0	66.3	0.76			0.014	0.006	< 01		0.27	3.6	5.91			33.75		
Anna	Black Bog Bog	Aug 26/14	PP	739990	4877[illegible]4	0.25	53.7	5	1.6	61.8	0.58			0.017	0.007	< 01		0.19	3	6.3			33.75		
Anna	Anna	Sept 3/13	SP			0.25				77.6				0.006	< 006	< 01		0.27	1.6						
Anna	Anna	Sept 3/13	PN			0.25				103.6				0.01	< 006	< 01		0.32	1.9						
Anna	Anna	Sept 3/13	PW			0.25				161.9				0.016	0.009	0.02		0.52	2.2						
Anna	Black Bog	Sept 3/13	LAB			0.25				174.9				0.037	0.02	< 01		0.47	6						
Anna	Anna River	Sept 3/13	OUT			0.25				97.4				0.005	< 005	0.01		0.33	1.4						
Anna	Anna	Sept 3/13	SP			0.25				90.6				0.006	< 005	0.02		0.3	1.4						
Anna	Black Bog	Sept 3/13	LAB			0.25				116.3				0.013	0.006	< 01		0.36	2.2						
Anna	Bogs	Sept 3/13	JPP			0.25				62.6				< 002	< 005	< 01		0.21	3.3						
Anna	Bogs	Sept 3/13	OUT			0.25				39.1				< 002	< 005	< 01		0.2	3.4						
Anna	Higgins	August 18/15	OS1	742557	4819861	0.25	3000	> 3												6.49	John		3340		
Carleton	Fens	August 30/15	OS1	768429	4884538	0.25	32.7	1.625												6.86	John		20.8		
Carleton	Fens	August 30/15	OS1	768429	4884538	1	32.7	1.625												6.8	John		20.6		
Carleton	Fens	August 30/15	OS1	768429	4884538	2	32.7	1.625												6.73	John		20.8		
Carleton	Fens	August 30/15	OS1	768429	4884538	3	33.6	1.625												6.04	John		23.75		
Carleton	Fens	August 30/15	OS1	768429	4884538	3.2	31.8	1.625												6.01	John		21.45		
Carleton	Fens	August 30/15	OS1	768429	4884538	4	31.3	1.625												5.91	John		21.65		
Carleton	Fens	August 30/15	OS1	768429	4884538	6	32.9	1.625												6.9	John		23.4		
Carleton	Fens	August 30/15	OS1	768429	4884538	6	39.7	1.625												4.26	John		32.2		
Argyle	Kendall	August 24/15	OS1	770090	4817234	0.25	31.9	0.57												5.83	John		20.15		
Argyle	Kendall	August 24/15	OS1	770090	4817234	1	31.8	0.57												5.66	John		20.15		
Argyle	Kendall	August 24/15	OS1	770090	4817234	1.7	31.8	0.57												5.63	John		20.15		
Argyle	Kendall	August 24/15	OS1	770090	4817234	3	31.8	0.57												5.39	John		20.15		
Tusket	James	August 24/15	OS1	767456	4870952	0.25	34	5.5												4.86	John	Lagoon was 6 m. or 2 m. more than lagoon depth.	21.45		
Tusket	James	August 24/15	OS1	767456	4870952	1	34	5.5												4.81	John		21.45		
Tusket	James	August 24/15	OS1	767456	4870952	2	34	5.5												4.79	John		21.45		
Tusket	James	August 24/15	OS1	767456	4870952	3	34	5.5												4.76	John		21.45		
Tusket	James	August 24/15	OS1	767456	4870952	4	33.9	5.5												4.74	John		21.45		
Tusket	James	August 24/15	OS1	767456	4870952	5	33.9	5.5												4.45	John		22.1		
Carleton	Kempt Back	August 23/16	GPU	37.785	4884680	0.25	35.7			113	0.93			0.015	0.006	< 01		0.64	1.6	5.36	John	Down upstream of culvert at [illegible] well-peopled	26.65	6.1	
Carleton	Kempt Back	August 23/16	GPD	371794	4884637	0.35	35.4			115	0.86			0.016	0.008	< 01		0.48	1.6	5.39	John	Down downstream of culvert at 11.28, well-peopled	26.65	6.2	
Carleton	Kempt Back	August 23/16	KSUN	372302	4883627	0.25	30.7			19.5	0.49			0.004	< 002	< 01		0.16	1.9	6.43		Down at southeast side of Sack Brook "Study" at [illegible]46	20.5	6.6	
Carleton	Kempt Back	August 23/16	KSUS	372426	4881854	0.25	30			20.4	0.52			0.004	< 002	< 01		0.16	1.7	6.48		Down on southern side of Line at 2.56, regardless wind blowing onshore	20.8	6.6	
Salmon	Little Dauphin	Aug 30/13	OS	735447	4887643	0.25	43.3	0.36			43.55									6.9					
Salmon	Little Dauphin	Aug 30/13	OS	735447	4887643	0.8	43.3	0.36			43.55									6.94					
Salmon	Little Dauphin	Aug 30/13	OSM	735560	4888000	0.25	43.5	0.38			43.9									6.99					
Salmon	Little Dauphin	Aug 30/13	OSM	735560	4888000	0.6	43.4	0.38			43.9									6.99					
Salmon	Little Dauphin	Aug 30/13	OSM	735560	4888000	2	43.1	0.38			43.55									6.97					
Salmon	Little Dauphin	Aug 30/13	OS	735443	4887694	0.25	47.7	0.31			43.33									8.59					

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Sisiboo	Provost	DS1			13-Aug-08	0.0	21.7	6.70	74.8	
Sisiboo	Provost	DS1			13-Aug-08	1.0	21.7	6.60	73.7	
Sisiboo	Provost	DS1			13-Aug-08	2.0	21.7	6.60	73.7	
Sisiboo	Provost	DS1			13-Aug-08	3.0	21.1	6.50	72.5	
Sisiboo	Provost	DS1			13-Aug-08	4.0	21.1	6.30	70.2	
Sisiboo	Provost	DS1			13-Aug-08	5.0	21.1	6.30	70.2	
Sisiboo	Provost	DS1			26-Oct-09	0.0	9.5	10.73	93.1	
Sisiboo	Provost	DS1			26-Oct-09	1.0	9.5	10.7	92.9	
Sisiboo	Provost	DS1			26-Oct-09	2.0	9.5	10.68	92.6	
Sisiboo	Provost	DS1			26-Oct-09	3.0	9.4	10.65	92.3	
Sisiboo	Provost	DS1			26-Oct-09	4.0	9.4	10.61	9[illegible].9	
Sisiboo	Provost	DS1			26-Oct-09	5.0	9.4	10.56	9[illegible].4	
Sisiboo	Provost	DS1			30-Sep-10	0.0	20.0	9.00	98.1	
Sisiboo	Provost	DS1			30-Sep-10	1.0	19.9	8.99	97.9	
Sisiboo	Provost	DS1			30-Sep-10	2.0	19.8	9.02	98.0	
Sisiboo	Provost	DS1			30-Sep-10	3.0	19.8	9.00	97.8	
Sisiboo	Provost	DS1			30-Sep-10	4.0	19.7	8.99	97.4	
Sisiboo	Provost	DS1			30-Sep-10	5.0	19.5	8.59	92.8	
Sisiboo	Provost	DS1			4-Aug-11	0.0	23.4	7.55	88.0	
Sisiboo	Provost	DS1			4-Aug-11	1.0	22.4	7.46	85.5	
Sisiboo	Provost	DS1			4-Aug-11	2.0	20.7	5.00	55.4	
Sisiboo	Provost	DS1			4-Aug-11	3.0	20.2	4.83	52.9	
Sisiboo	Provost	DS1			4-Aug-11	4.0	20.0	4.18	45.6	
Sisiboo	Provost	DS1	273108	4985149	13-Aug-13	5.0	19.5	1.22	13.2	
Sisiboo	Provost	DS1			13-Aug-13	0.3	22.9	8.60	100.0	
Sisiboo	Provost	DS1			13-Aug-13	1.0	22.8	8.40	97.0	
Sisiboo	Provost	DS1			13-Aug-13	2.0	22.6	8.10	94.0	
Sisiboo	Provost	DS1			13-Aug-13	3.0	22.6	7.70	89.0	
Sisiboo	Provost	DS1			13-Aug-13	4.0	21.9	4.10	49.0	
Sisiboo	Provost	DS1			24-Aug-14	5.0	21.3	4.70	53.0	
Sisiboo	Provost	DS1			24-Aug-14	0.0	23.0	7.70		
Sisiboo	Provost	DS1			24-Aug-14	1.0	21.6	8.01		
Sisiboo	Provost	DS1			24-Aug-14	2.0	21.3	7.67		
Sisiboo	Provost	DS1			24-Aug-14	3.0	21.2	7.50		
Sisiboo	Provost	DS1			24-Aug-14	4.0	21.2	7.30		
Sisiboo	Provost	DS1			24-Aug-14	5.0	21.1	7.25		
Sisiboo	Provost	DS1			24-Aug-14	6.0	20.4	5.14		
Sisiboo	Provost	DS1			24-Aug-14	7.0	15.5	0.60		
Sisiboo	Provost	DS1			24-Aug-14	8.0	14.5	0.60		
Sisiboo	Provost	DS1			25-Aug-15	0.3	28.7	6.23	81.3	
Sisiboo	Provost	DS1			25-Aug-15	1.0	27.3	6.49	82.5	
Sisiboo	Provost	DS1			25-Aug-15	2.0	26.5	6.68	84	
Sisiboo	Provost	DS1			25-Aug-15	3.0	24.8	5.67	68.8	
Sisiboo	Provost	DS1			25-Aug-15	4.0	22.7	2.13	24.9	
Sisiboo	Provost	DS1			25-Aug-15	5.0	21	0.72	8.2	
Sisiboo	Provost	DS1			25-Aug-15	6.0	17.3	0.8	8.5	
Sisiboo	Provost	DS1			25-Aug-15	7.0	14.4	0.85	8.6	
Sisiboo	Provost	DS1			25-Aug-15	8.0	13.6	0.86	8.3	
Sisiboo	Provost	DS1			30-Aug-16	0.75	23.9	7.18	83.3	
Sisiboo	Provost	DS1			30-Aug-16	1.0	22.7	7.43	86.3	
Sisiboo	Provost	DS1			30-Aug-16	2.0	22.2	6.86	79.3	
Sisiboo	Provost	DS1			30-Aug-16	3.0	22.1	6.83	78.6	
Sisiboo	Provost	DS1			30-Aug-16	4.0	21.9	6.7	76.9	
Sisiboo	Provost	DS1			30-Aug-16	5.0	21.8	6.5	74.5	
Sisiboo	Provost	DS1			30-Aug-16	6.0	21.6	6.22	71	
Sisiboo	Provost	DS1			30-Aug-16	7.0	15.9	0.74	7.6	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Sisiboo	Provost	DS1			30-Aug-16	7.5	14.1	0.73	7.2	
Sisiboo	Provost	DS1	272811.74	4914905.7	22-Aug-17	0.75	22.75	7.76	90.[illegible]	
Sisiboo	Provost	DS1	272811.74	4914905.7	22-Aug-17	4.5	21.05	7.07	77.4	
Sisiboo	Provost	DS1	272811.74	4914905.7	22-Aug-17	0.25	19.95	5.27	57.5	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	0.25	21.2	11.55	130.7	Cory Bowen and Andrew at 11:05
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	1.00	21.2	11.27	127.9	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	2.00	21.2	11.07	125.4	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	3.00	21.2	10.84	122.6	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	4.00	20.9	9.51	107.8	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	5.00	20.7	8.54	96.7	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	6.00	20.6	7.93	89	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	7.00	19.6	3.84	42.8	
Sisiboo	Provost	DS1	272231	4914572	30-Aug-17	8.00	14.5	2.44	24	
Meteghan	Newlans	DS1			13-Aug-08	0.0	21.5	6.90	77.5	
Meteghan	Newlans	DS1			13-Aug-08	1.0	21.5	6.70	75.3	
Meteghan	Newlans	DS1			13-Aug-08	2.0	21.4	6.10	68.4	
Meteghan	Newlans	DS1			13-Aug-08	3.0	21.4	6.10	68.4	
Meteghan	Newlans	DS1			13-Aug-08	4.0	21.2	4.43	49.7	
Meteghan	Newlans	DS1			13-Aug-08	5.0	20.9	1.90	21.1	
Meteghan	Newlans	DS1			13-Aug-08	6.0	18.6	1.00	10.6	
Meteghan	Newlans	DS1			13-Aug-08	7.0	17.2	1.00	10.3	
Meteghan	Newlans	DS1			13-Aug-08	8.0	16.9	0.90	9.2	
Meteghan	Newlans	DS1			13-Aug-08	0.0	10.9	9.75	87.4	
Meteghan	Newlans	DS1			14-Oct-09	1.0	10.9	9.77	87.5	
Meteghan	Newlans	DS1			14-Oct-09	2.0	10.8	9.67	86.6	
Meteghan	Newlans	DS1			14-Oct-09	3.0	10.8	9.61	86.0	
Meteghan	Newlans	DS1			14-Oct-09	4.0	10.8	9.49	84.9	
Meteghan	Newlans	DS1			14-Oct-09	5.0	10.8	9.47	84.8	
Meteghan	Newlans	DS1			14-Oct-09	6.0	10.8	9.33	83.5	
Meteghan	Newlans	DS1			14-Oct-09	0.0	17.2	10.74	110.4	
Meteghan	Newlans	DS1			25-Sep-10	1.0	17.1	10.70	110.1	
Meteghan	Newlans	DS1			25-Sep-10	2.0	17.2	10.73	110.4	
Meteghan	Newlans	DS1			25-Sep-10	3.0	17.1	10.56	108.5	
Meteghan	Newlans	DS1			25-Sep-10	4.0	16.9	9.74	99.8	
Meteghan	Newlans	DS1			25-Sep-10	5.0	16.9	9.18	93.9	
Meteghan	Newlans	DS1			25-Sep-10	6.0	16.8	8.66	88.5	
Meteghan	Newlans	DS1			25-Sep-10	7.0	16.8	8.43	86.1	
Meteghan	Newlans	DS1			25-Aug-15	0.3	28.5	7.82	98	
Meteghan	Newlans	DS1			25-Aug-15	1.0	27.2	8.05	100.7	
Meteghan	Newlans	DS1			25-Aug-15	2.0	25.6	7.28	88	
Meteghan	Newlans	DS1			25-Aug-15	3.0	22.9	1.6	20	
Meteghan	Newlans	DS1			25-Aug-15	4.0	20.4	0.94	10.2	
Meteghan	Newlans	DS1			25-Aug-15	5.0	18.4	0.81	8.6	
Meteghan	Newlans	DS1			25-Aug-15	6.0	18.2	0.72	7.5	
Meteghan	Newlans	DS1			31-Aug-16	0.25	23.1	8.17	94	
Meteghan	Newlans	DS1			31-Aug-16	1.0	22.1	8.37	95.8	
Meteghan	Newlans	DS1			31-Aug-16	2.0	22.1	8.12	93.3	
Meteghan	Newlans	DS1			31-Aug-16	3.0	22	7.21	82.4	
Meteghan	Newlans	DS1			31-Aug-16	4.0	21.8	5.77	65.9	
Meteghan	Newlans	DS1			31-Aug-16	5.0	21	0.75	8.5	
Meteghan	Newlans	DS1			31-Aug-16	6.0	18.8	0.69	7.5	
Meteghan	Newlans	DS1			31-Aug-16	7.0	16.2	0.73	7.5	
Meteghan	Newlans	NL-INI	266624.45	4910411.56	24-Aug-17	0.3	-	-	-	No suitable location with enough depth to submerge TSI sonde

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Meteghan	Newlans	NL-OL18	264744.17	4910644.96	24-Aug-17	0.3	19.45	4.34	45.5	Sampled on foot. NL-OL18 is located approximately 450 m downstream, where stream crosses woods road. GPS point taken
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	0.3	21.2	12.84	145.4	Cory Bowen and Andrew, 11:05 A.M.
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	1.0	21.1	12.86	143.8	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	2.0	21.1	12.04	135.4	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	3.0	20.9	11.17	124.3	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	4.0	20.6	7.2	79.4	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	5.0	19.9	5.54	60.1	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	6.0	18.6	5.87	62.3	
Meteghan	Newlans	DS1	265890	4910831	29-Aug-17	7.0	16.4	6.69	67.7	
Carleton	Haunglass	DS3			13-Aug-08	0.0	21.1	6.40	71.4	
Carleton	Haunglass	DS3			13-Aug-08	1.0	21.1	6.20	69.1	
Carleton	Haunglass	DS3			13-Aug-08	2.0	21.1	6.20	69.1	
Carleton	Haunglass	DS3			13-Aug-08	3.0	20.9	5.50	61.1	
Carleton	Haunglass	DS3			13-Aug-08	4.0	17.3	1.30	13.4	
Carleton	Haunglass	DS3			13-Aug-08	5.0	13.5	1.40	13.3	
Carleton	Haunglass	DS3			13-Aug-08	6.0	12.5	1.50	14.0	
Carleton	Haunglass	DS1			19-Oct-09	0.0	9.3	10.11	87.3	
Carleton	Haunglass	DS1			19-Oct-09	1.0	9.3	10.10	87.2	
Carleton	Haunglass	DS1			19-Oct-09	2.0	9.3	10.07	87.0	
Carleton	Haunglass	DS1			19-Oct-09	3.0	9.3	10.04	86.7	
Carleton	Haunglass	DS1			19-Oct-09	4.0	9.3	10.03	86.7	
Carleton	Haunglass	DS1			19-Oct-09	5.0	8.6	9.81	83.3	
Carleton	Haunglass	DS1			19-Oct-09	6.0	8.5	9.77	82.8	
Carleton	Haunglass	DS1			19-Oct-09	7.0	8.5	9.76	82.7	
Carleton	Haunglass	DS1			25-Sep-10	0.0	16.9	8.74	89.5	
Carleton	Haunglass	DS1			25-Sep-10	1.0	16.9	8.70	89.1	
Carleton	Haunglass	DS1			25-Sep-10	2.0	16.8	8.43	86.1	
Carleton	Haunglass	DS1			25-Sep-10	3.0	16.7	8.11	82.6	
Carleton	Haunglass	DS1			25-Sep-10	4.0	16.6	7.92	80.6	
Carleton	Haunglass	DS1			25-Sep-10	5.0	16.5	7.63	77.5	
Carleton	Haunglass	DS1			25-Sep-10	6.0	16.5	7.68	78.0	
Carleton	Haunglass	DS1			13-Aug-11	0.0	24.4	7.13	84.7	
Carleton	Haunglass	DS1			13-Aug-11	1.0	22.5	6.05	69.3	
Carleton	Haunglass	DS1			13-Aug-11	2.0	20.0	5.04	55.0	
Carleton	Haunglass	DS1			13-Aug-11	3.0	19.2	4.07	43.7	
Carleton	Haunglass	DS1			13-Aug-11	3.5	17.9	0.00	0.0	
Carleton	Haunglass	DS1			13-Aug-11	4.0	16.7	0.00	0.0	
Carleton	Haunglass	DS1			13-Aug-11	5.0	12.0	0.00	0.0	
Carleton	Haunglass	DS1			13-Aug-11	6.0	10.0	0.00	0.0	
Carleton	Haunglass	DS1			13-Aug-11	7.0	10.0	0.00	0.0	
Carleton	Haunglass	DS1	266546	49[illegible]2478	7-May-13	0.5	17.3	10.00	104.0	
Carleton	Haunglass	DS1			7-May-13	1.0	17.3	9.90	103.0	
Carleton	Haunglass	DS1			7-May-13	2.0	15.1	8.80	88.0	
Carleton	Haunglass	DS1			7-May-13	3.0	12.4	6.80	64.0	
Carleton	Haunglass	DS1			7-May-13	4.0	10.4	6.50	58.0	
Carleton	Haunglass	DS1			7-May-13	5.0	9.8	7.10	63.0	
Carleton	Haunglass	DS1			7-May-13	6.0	9.5	5.50	48.0	
Carleton	Haunglass	DS1			7-May-13	7.0	9.3	4.70	41.0	
Carleton	Haunglass	DS1	266531	49[illegible]2477	8-Jul-13	0.3	26.0	7.90	97.0	
Carleton	Haunglass	DS1			8-Jul-13	1.0	26.0	7.20	89.0	
Carleton	Haunglass	DS1			8-Jul-13	1.4	23.8	5.10	61.0	
Carleton	Haunglass	DS1			8-Jul-13	2.0	20.7	4.90	55.0	
Carleton	Haunglass	DS1			8-Jul-13	3.0	17.7	2.90	30.0	
Carleton	Haunglass	DS1			8-Jul-13	4.0	14.0	0.90	9.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Hourglass	DS1			8-Jul-13	5.0	12.7	0.30	3.0	
Carleton	Hourglass	DS1			8-Jul-13	6.0	10.5	0.10	1.0	
Carleton	Hourglass	DS1			8-Jul-13	7.0	9.6	0.10	1.0	
Carleton	Hourglass	DS1			8-Jul-13	8.0	9.4	0.10	1.0	
Carleton	Hourglass	DS1	266546	4912691	Aug 12/13	0.3	22.9	6.90	80.0	
Carleton	Hourglass	DS1			Aug 12/13	1.0	22.3	6.80	78.0	
Carleton	Hourglass	DS1			Aug 12/13	2.0	21.9	6.50	74.0	
Carleton	Hourglass	DS1			Aug 12/13	3.0	20.1	1.60	17.0	
Carleton	Hourglass	DS1			Aug 12/13	4.0	14.4	0.10	1.0	
Carleton	Hourglass	DS1			Aug 12/13	5.0	12.0	0.10	1.0	
Carleton	Hourglass	DS1			Aug 12/13	6.0	10.5	0.10	1.0	
Carleton	Hourglass	DS1			Aug 12/13	7.0	9.9	0.10	1.0	
Carleton	Hourglass	DS1	266534	4912472	Oct 29/13	0.3	9.8	9.10	80.0	
Carleton	Hourglass	DS1			Oct 29/13	1.0	9.8	9.00	79.0	
Carleton	Hourglass	DS1			Oct 29/13	2.0	9.7	8.90	79.0	
Carleton	Hourglass	DS1			Oct 29/13	3.0	9.7	8.90	79.0	
Carleton	Hourglass	DS1			Oct 29/13	4.0	9.7	8.80	77.0	
Carleton	Hourglass	DS1			Oct 29/13	5.0	9.6	8.80	77.0	
Carleton	Hourglass	DS1			Oct 29/13	6.0	9.5	8.80	77.0	
Carleton	Hourglass	DS1			Oct 29/13	7.0	9.5	8.80	77.0	
Carleton	Hourglass	DS1			Oct 29/13	8.0	9.5	8.60	75.0	
Carleton	Hourglass	DS1	266544	4912404	Aug 18/14	0.3	21.5	7.60	86.0	
Carleton	Hourglass	DS1			Aug 18/14	1.0	21.5	7.50	86.0	
Carleton	Hourglass	DS1			Aug 18/14	2.0	21.5	7.50	85.0	
Carleton	Hourglass	DS1			Aug 18/14	3.0	21.5	7.20	82.0	
Carleton	Hourglass	DS1			Aug 18/14	4.0	17.0	0.10	1.0	
Carleton	Hourglass	DS1			Aug 18/14	5.0	14.7	0.10	1.0	
Carleton	Hourglass	DS1			Aug 18/14	6.0	11.6	0.10	1.0	
Carleton	Hourglass	DS1			Aug 18/14	6.5	10.8	0.10	1.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	0.3	24.8	7.60	91.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	1.0	24.8	7.20	87.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	2.0	23.2	5.80	68.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	3.0	19.1	0.10	1.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	4.0	13.8	0.10	1.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	5.0	11.0	0.10	1.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	6.0	9.5	0.00	0.0	
Carleton	Hourglass	DS1	266542	4912470	Aug 17/15	7.0	8.9	0.00	0.0	
Carleton	Hourglass	DS1	266504	4912512	Aug 21/16	0.3	23.6	9.30	110.0	Measures taken at 12:00 noon
Carleton	Hourglass	DS1	266504	4912512	Aug 21/16	1.9	22.4	7.60	87.0	Measures taken at 12:00 noon
Carleton	Hourglass	DS1	266504	4912512	Aug 21/16	6.9	13.5	0.30	3.0	Measures taken at 12:00 noon
Carleton	Hourglass	SL2	265857	4912571	Aug 22/16	0.3	24.0	9.30	93.0	Taken on western extreme of lake N of boat launch at 10:25 overcast
Carleton	Hourglass	HL-DS1	266505.08	4912478.74	24-Aug-17	0.3	24.4	8.88	106.6	
Carleton	Hourglass	HL-DS1	266505.08	4912478.74	24-Aug-17	2.0	20.9	4.87	56.8	
Carleton	Hourglass	HL-DS1	266505.08	4912478.74	24-Aug-17	6.5	10.7	2.40	21.7	
Carleton	Hourglass	HL-AQINI	266695.47	4911977.97	24-Aug-17	0.3	21.6	8.00	90.9	
Carleton	Hourglass	HL-AQINI	266016.2	4912529.57	24-Aug-17	0.3	21.8	7.24	81.7	Fishy smell present, but not able to determine whether this is from the water, or just downwind of aquaculture facility
Carleton	Hourglass	HL-DL1	267073.2	4911872.3	24-Aug-17	0.3	23.3	8.89	104.1	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	0.25	23.6	10.87	127.1	Cory Bowen and Andrew at 16:40
Carleton	Placides	DS1	266165	4908799	29-Aug-17	1.00	22.6	11.14	128.1	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	2.00	21.8	10.38	117.6	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	3.00	20.5	9.18	101.3	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	4.00	19.6	8.59	93.8	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	5.00	17.6	3.58	34.4	
Carleton	Placides	DS1	266165	4908799	29-Aug-17	6.00	14.9	2.55	25.1	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Placides	IN-1	246303.31	4909188.01	22-Aug-17	0.25	27.5	6.75	75.9	
Carleton	Placides	DS1	246303.31	4909188.01	22-Aug-17	0.25	24.19	7.72	92.3	
Carleton	Placides	DS1	246303.31	4909188.01	22-Aug-17	1.30	23.17	6.79	78.8	
Carleton	Placides	DS1	246303.31	4909188.01	22-Aug-17	3.50	20.03	5.14	56.8	
Carleton	Placides	OUT-1	246303.31	4909188.01	22-Aug-17	0.25	22.5	8.30	94.4	
Carleton	Placides	DS1			30-Aug-16	0.25	27.1	8.5	97.1	
Carleton	Placides	DS1			30-Aug-16	1.00	27	8.31	95.3	
Carleton	Placides	DS1			30-Aug-16	2.00	27	7.31	83.7	
Carleton	Placides	DS1			30-Aug-16	3.00	21.9	6.83	77.7	
Carleton	Placides	DS1			30-Aug-16	4.00	21.5	6.19	68.6	
Carleton	Placides	DS1			30-Aug-16	5.00	20.3	5.47	50.4	
Carleton	Placides	DS1			30-Aug-16	6.00	16	0.9	9.4	
Carleton	Placides	DS1			30-Aug-16	6.5	15.3	0.73	7.3	
Carleton	Placides	DS1			26-Aug-15	0.3	25.9	6.18	76	
Carleton	Placides	DS1			26-Aug-15	1.0	25.9	5.99	76.1	
Carleton	Placides	DS1			26-Aug-15	2.0	25.3	4.68	56.4	
Carleton	Placides	DS1			26-Aug-15	3.0	22.5	0.87	10.5	
Carleton	Placides	DS1			26-Aug-15	4.0	19.1	0.84	9.1	
Carleton	Placides	DS1			26-Aug-15	5.0	15.1	0.97	9.8	
Carleton	Placides	DS1			26-Aug-15	6.0	13.2	1.02	9.8	
Carleton	Placides	DS1			26-Aug-15	6.5	12.9	0.98	9.4	
Carleton	Placides	DS1			24-Aug-14	0.0	21.8	8.00		
Carleton	Placides	DS1			24-Aug-14	1.0	21.7	7.59		
Carleton	Placides	DS1			24-Aug-14	2.0	21.4	7.00		
Carleton	Placides	DS1			24-Aug-14	3.0	20.9	6.44		
Carleton	Placides	DS1			24-Aug-14	4.0	20.0	4.63		
Carleton	Placides	DS1			24-Aug-14	5.0	18.4	0.60		
Carleton	Placides	DS1			24-Aug-14	6.0	15.9	0.47		
Carleton	Placides	DS1			24-Aug-14	6.5	15.0	0.43		
Carleton	Placides	DS1			5-May-13	0.0	21.5	7.10	79.8	
Carleton	Placides	DS1			13-Aug-08	1.0	21.5	4.90	77.5	
Carleton	Placides	DS1			13-Aug-08	2.0	21.2	4.10	68.1	
Carleton	Placides	DS1			13-Aug-08	3.0	20.9	3.00	55.5	
Carleton	Placides	DS1			13-Aug-08	4.0	20.6	4.00	44.2	
Carleton	Placides	DS1			13-Aug-08	5.0	17.7	1.10	11.3	
Carleton	Placides	DS1			13-Aug-08	6.0	13.5	1.10	10.5	
Carleton	Placides	DS1			13-Aug-08	7.0	12.7	1.00	9.3	
Carleton	Placides	DS1			13-Aug-08	0.0	8.9	9.90	84.6	
Carleton	Placides	DS1			20-Oct-09	1.0	8.8	9.91	84.6	
Carleton	Placides	DS1			20-Oct-09	2.0	8.8	9.90	84.4	
Carleton	Placides	DS1			20-Oct-09	3.0	8.7	9.88	84.1	
Carleton	Placides	DS1			20-Oct-09	4.0	8.7	9.87	84.0	
Carleton	Placides	DS1			20-Oct-09	5.0	8.7	9.73	82.8	
Carleton	Placides	DS1			20-Oct-09	6.0	8.3	9.27	78.1	
Carleton	Placides	DS1			20-Oct-09	7.0	8.1	8.65	72.6	
Carleton	Placides	DS1			20-Oct-09	0.0	14.6	8.98	91.5	
Carleton	Placides	DS1			26-Sep-10	1.0	14.5	8.78	89.1	
Carleton	Placides	DS1			26-Sep-10	2.0	14.4	8.46	85.6	
Carleton	Placides	DS1			26-Sep-10	3.0	14.3	8.36	84.5	
Carleton	Placides	DS1			26-Sep-10	4.0	14.2	8.26	83.4	
Carleton	Placides	DS1			26-Sep-10	5.0	14.1	7.70	77.5	
Carleton	Placides	DS1			26-Sep-10	6.0	14.0	7.39	74.2	
Carleton	Placides	DS1			26-Sep-10	6.5	13.8	7.32	73.2	
Carleton	Placides	DS1			26-Sep-10	0.0	22.4	6.15	70.3	
Carleton	Placides	DS1			22-Aug-11	1.0	22.3	6.17	70.4	
Carleton	Placides	DS1			22-Aug-11	2.0	22.3	6.08	69.4	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Floodes	DS1			22-Aug-11	3.0	22.2	5.95	67.8	
Carleton	Floodes	DS1			22-Aug-11	4.0	18.4	0.39	4.1	
Carleton	Floodes	DS1			22-Aug-11	5.0	16.3	0.00	0.0	
Carleton	Floodes	DS1			22-Aug-11	6.0	13.9	0.00	0.0	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	0.25	22.5	11.76	134.4	Cory Bowen and Andrew at 13:40
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	1.0	21.5	12.01	134.9	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	2.0	21.2	11.68	130.4	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	3.0	21.1	11.06	123.3	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	4.0	21	10.78	120	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	5.0	20.9	10.5	116.5	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	6.0	20.5	9.51	105.1	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	7.0	17.4	3.94	40.5	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	8.0	14.7	3.26	32.1	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	9.0	13.4	3.19	30.4	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	10.0	12.6	3.2	29.9	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	11.0	12	3.12	28.5	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	12.0	11.8	2.98	27.3	
Carleton	Porcupine	DS1	265304	4906534	29-Aug-17	13.0	11.6	2.88	26.3	
Carleton	Porcupine	BN	266112.74	4906675.84	22-Aug-17	0.25	19.0	8.04	89.7	
Carleton	Porcupine	BN	266112.74	4906675.84	22-Aug-17	0.5	18.62	5.86	63	
Carleton	Porcupine	DS1	266112.74	4906675.84	22-Aug-17	0.75	20.18	7.07	83.1	
Carleton	Porcupine	DS1	266112.74	4906675.84	22-Aug-17	4.8	20.5	5.61	67.3	
Carleton	Porcupine	DS1	266112.74	4906675.84	22-Aug-17	7.0	13.05	9.73	87.79	
Carleton	Porcupine	DS1	266112.74	4906675.84	22-Aug-17	0.3	23.4	8.21	95.9	
Carleton	Porcupine	DS1			30-Aug-16	0.25	22.6	7.45	87.2	
Carleton	Porcupine	DS1			30-Aug-16	1.0	22.5	7.29	84.4	
Carleton	Porcupine	DS1			30-Aug-16	2.0	22.2	6.8	77.7	
Carleton	Porcupine	DS1			30-Aug-16	3.0	22.2	6.78	77.2	
Carleton	Porcupine	DS1			30-Aug-16	4.0	22.1	6.69	76.6	
Carleton	Porcupine	DS1			30-Aug-16	5.0	21.9	6.08	69.4	
Carleton	Porcupine	DS1			30-Aug-16	6.0	21.4	5.65	63.6	
Carleton	Porcupine	DS1			30-Aug-16	7.0	16.8	0.66	6.8	
Carleton	Porcupine	DS1			30-Aug-16	8.0	13.6	0.67	6.5	
Carleton	Porcupine	DS1			30-Aug-16	9.0	12.5	0.65	6.1	
Carleton	Porcupine	DS1			30-Aug-16	9.5	11.9	0.61	5.6	
Carleton	Porcupine	DS1			26-Aug-15	0.3	25.5	6.59	81.9	
Carleton	Porcupine	DS1			26-Aug-15	1.0	25.5	6.42	78.5	
Carleton	Porcupine	DS1			26-Aug-15	2.0	25.3	6.47	79.1	
Carleton	Porcupine	DS1			26-Aug-15	3.0	24.9	6.33	76.1	
Carleton	Porcupine	DS1			26-Aug-15	4.0	22.3	4.85	55.6	
Carleton	Porcupine	DS1			26-Aug-15	5.0	20.2	1.44	15.7	
Carleton	Porcupine	DS1			26-Aug-15	6.0	17.9	0.95	10.2	
Carleton	Porcupine	DS1			26-Aug-15	7.0	15.4	1.35	13.3	
Carleton	Porcupine	DS1			26-Aug-15	8.0	13.6	1.81	17.4	
Carleton	Porcupine	DS1			26-Aug-15	9.0	10.4	1.64	14.5	
Carleton	Porcupine	DS1			26-Aug-15	10.0	8.8	1.36	12.1	
Carleton	Porcupine	DS1			26-Aug-15	11.0	8.3	1.19	10.2	
Carleton	Porcupine	DS1			25-Aug-14	0.0	22.3	7.45		
Carleton	Porcupine	DS1			25-Aug-14	1.0	22.2	7.33		
Carleton	Porcupine	DS1			25-Aug-14	2.0	22.1	7.27		
Carleton	Porcupine	DS1			25-Aug-14	3.0	22.0	7.27		
Carleton	Porcupine	DS1			25-Aug-14	4.0	21.7	7.15		
Carleton	Porcupine	DS1			25-Aug-14	5.0	21.3	6.89		
Carleton	Porcupine	DS1			25-Aug-14	6.0	21.0	6.60		
Carleton	Porcupine	DS1			25-Aug-14	7.0	18.8	3.70		
Carleton	Porcupine	DS1			25-Aug-14	8.0	14.0	1.59		

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Porcupine	DS1			25-Aug-14	9.0	11.8	1.26		
Carleton	Porcupine	DS1			25-Aug-14	10.0	10.9	0.99		
Carleton	Porcupine	DS1			25-Aug-14	11.0	10.0	0.52		
Carleton	Porcupine	DS1			25-Aug-14	12.0	9.8	0.47		
Carleton	Porcupine	DS1			27-Aug-11	1.0	23.0	7.10	87.1	
Carleton	Porcupine	DS1			13-Aug-08	2.0	2[illegible].8	6.90	78.0	
Carleton	Porcupine	DS1			13-Aug-08	3.0	2[illegible].5	6.70	75.3	
Carleton	Porcupine	DS1			13-Aug-08	4.0	2[illegible].4	6.50	72.9	
Carleton	Porcupine	DS1			13-Aug-08	5.0	2[illegible].2	6.[illegible]	72.6	
Carleton	Porcupine	DS1			13-Aug-08	6.0	19.8	1.90	20.6	
Carleton	Porcupine	DS1			13-Aug-08	7.0	15.5	1.50	14.9	
Carleton	Porcupine	DS1			13-Aug-08	0.0	9.5	10.94	94.8	
Carleton	Porcupine	DS1			26-Oct-09	1.0	9.4	10.95	94.9	
Carleton	Porcupine	DS1			26-Oct-09	2.0	9.4	10.9[illegible]	94.4	
Carleton	Porcupine	DS1			26-Oct-09	3.0	9.4	10.[illegible]	94.3	
Carleton	Porcupine	DS1			26-Oct-09	4.0	9.4	10.85	93.9	
Carleton	Porcupine	DS1			26-Oct-09	5.0	9.3	10.84	93.7	
Carleton	Porcupine	DS1			26-Oct-09	6.0	9.3	10.8[illegible]	93.4	
Carleton	Porcupine	DS1			26-Oct-09	7.0	9.3	10.80	93.3	
Carleton	Porcupine	DS1			26-Oct-09	8.0	9.3	10.80	93.2	
Carleton	Porcupine	DS1			26-Oct-09	9.0	9.3	10.77	93.0	
Carleton	Porcupine	DS1			26-Oct-09	10.0	9.3	10.74	92.7	
Carleton	Porcupine	DS1			26-Oct-09	11.0	9.2	10.68	92.[illegible]	
Carleton	Porcupine	DS1			26-Oct-09	12.0	9.2	10.64	91.6	
Carleton	Porcupine	DS1			26-Oct-09	13.0	9.1	10.63	91.4	
Carleton	Porcupine	DS1			26-Oct-09	0.0	17.0	8.85	90.8	
Carleton	Porcupine	DS1			26-Sep-10	1.0	17.0	8.84	90.7	
Carleton	Porcupine	DS1			26-Sep-10	2.0	17.0	8.84	90.7	
Carleton	Porcupine	DS1			26-Sep-10	3.0	17.0	8.83	90.5	
Carleton	Porcupine	DS1			26-Sep-10	4.0	17.0	8.83	90.6	
Carleton	Porcupine	DS1			26-Sep-10	5.0	17.0	8.79	90.1	
Carleton	Porcupine	DS1			26-Sep-10	6.0	17.0	8.77	89.9	
Carleton	Porcupine	DS1			26-Sep-10	7.0	16.9	8.75	89.7	
Carleton	Porcupine	DS1			26-Sep-10	8.0	16.9	8.72	89.3	
Carleton	Porcupine	DS1			26-Sep-10	9.0	16.6	8.24	84.1	
Carleton	Porcupine	DS1			26-Sep-10	10.0	16.5	8.14	82.7	
Carleton	Porcupine	DS1			26-Sep-10	11.0	15.9	7.74	77.3	
Carleton	Porcupine	DS1			26-Sep-10	0.0	23.3	8.30	94.4	
Carleton	Porcupine	DS1			16-Aug-11	1.0	23.3	8.15	94.8	
Carleton	Porcupine	DS1			16-Aug-11	2.0	23.2	7.96	92.5	
Carleton	Porcupine	DS1			16-Aug-11	3.0	20.8	6.86	76.0	
Carleton	Porcupine	DS1			16-Aug-11	4.0	20.3	6.03	66.1	
Carleton	Porcupine	DS1			16-Aug-11	5.0	19.8	5.04	54.8	
Carleton	Porcupine	DS1			16-Aug-11	6.0	18.1	3.51	36.8	
Carleton	Porcupine	DS1			16-Aug-11	7.0	15.1	0.00	0.0	
Carleton	Porcupine	DS1			16-Aug-11	8.0	12.6	0.00	0.0	
Carleton	Porcupine	DS1			16-Aug-11	9.0	11.9	0.00	0.0	
Carleton	Porcupine	DS1			16-Aug-11	10.0	11.6	0.00	0.0	
Carleton	Porcupine	DS1			16-Aug-11	11.0	5.4	0.00	0.0	
Carleton	Wentworth	DS1	265376	4896321	7-May-13	0.5	15.40	9.7	97	
Carleton	Wentworth	DS1			7-May-13	1.0	15.30	9.6	96	
Carleton	Wentworth	DS1			7-May-13	2.0	15.20	9.3	93	
Carleton	Wentworth	DS1			7-May-13	3.0	14.70	9.3	91	
Carleton	Wentworth	DS1	265289	4896306	8-Jul-13	0.3	25.30	6.5	80	
Carleton	Wentworth	DS1			8-Jul-13	1.0	24.90	6.5	78	
Carleton	Wentworth	DS1			8-Jul-13	2.0	22.20	6.6	53	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Wentworth	DS1			8-Jul-13	3.0	20.30	5	56	
Carleton	Wentworth	DS1			8-Jul-13	4.0	19.70	4.7	51	
Carleton	Wentworth	DS1	265320	4896279	12-Aug-13	0.3	27.00	7.5	83	
Carleton	Wentworth	DS1			12-Aug-13	1.0	27.00	7.3	83	
Carleton	Wentworth	DS1			12-Aug-13	2.0	21.80	6.8	77	
Carleton	Wentworth	DS1			12-Aug-13	3.0	21.50	6.6	75	
Carleton	Wentworth	DS1	265302	4896311	28-Oct-13	0.3	32.40	8.8	79	
Carleton	Wentworth	DS1			28-Oct-13	1.0	32.40	8.7	78	
Carleton	Wentworth	DS1			28-Oct-13	2.0	32.60	8.6	77	
Carleton	Wentworth	DS1			28-Oct-13	3.0	32.50	8.7	78	
Carleton	Wentworth	DS1			28-Oct-13	4.0	32.60	8.6	77	
Carleton	Wentworth	DS1	265301	4896251	18-Aug-14	0.3	21.60	6.8	77	
Carleton	Wentworth	DS1			18-Aug-14	1.0	21.60	6.7	77	
Carleton	Wentworth	DS1			18-Aug-14	2.0	21.60	6.7	76	
Carleton	Wentworth	DS1			18-Aug-14	3.0	21.40	6.7	76	
Carleton	Wentworth	DS1	265258	4896291	18-May-15	0.25	15.10			
Carleton	Wentworth	DS1			18-May-15	1.0	15.00			
Carleton	Wentworth	DS1			18-May-15	2.0	14.80			
Carleton	Wentworth	DS1			18-May-15	3.0	14.30			
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	0.3	24.20	7.4	89	
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	1.00	24.00	7.3	87	
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	1.20	24.00	7	83	
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	2.00	23.10	6.6	77	
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	3.00	22.60	6.1	71	
Carleton	Wentworth	DS1	265281	4896267	17-Aug-15	4.00	22.40	5.7	66	
Carleton	Wentworth	DS1	265299	4896317	21-Aug-16	0.25	24.00	8.1	96	
Carleton	Wentworth	DS1	265299	4896317	21-Aug-16	3.14	22.50	6.4	74	
Carleton	Wentworth	DS1	265299	4896317	21-Aug-16	3.65	22.40	0.2	3	
Carleton	Wentworth	Boat2	264785	4896588	22-Aug-16	0.25	23.20	8	94	Collected from boat launch at 10:05 A.M., overcast
Carleton	Wentworth	IN1			21-Aug-17	0.25	20.09	4.83	57.4	
Carleton	Wentworth	IN1			21-Aug-17	0.75	20.09	5.91	63.1	
Carleton	Wentworth	IN2			21-Aug-17	0.25	17.54	4.72	44.1	
Carleton	Wentworth	IN3			21-Aug-17	0.25	18.73	4.96	53	
Carleton	Wentworth	IN3			21-Aug-17	0.45	18.72	5.38	56.8	
Carleton	Wentworth	IN4			21-Aug-17	0.25	17.89	4.37	44.3	
Carleton	Wentworth	DS1			21-Aug-17	0.25	22.91	6.91	79.5	
Carleton	Wentworth	DS1			21-Aug-17	1.30	20.9	6.97	78	
Carleton	Wentworth	DS1			21-Aug-17	4.50	19.55	7.33	78.9	
Carleton	Wentworth	OL1			21-Aug-17	0.25	23.27	7.13	83	
Carleton	Wentworth	OL1			21-Aug-17	1.00	21.33	7.77	83.8	
Carleton	Parr	DS1			23-Aug-11	0.0	21.7	6.60	74.4	
Carleton	Parr	DS1			12-Aug-08	1.0	21.7	6.80	76.7	
Carleton	Parr	DS1			12-Aug-08	2.0	21.7	6.40	72.2	
Carleton	Parr	DS1			12-Aug-08	3.0	21.7	6.50	73.3	
Carleton	Parr	DS1			12-Aug-08	4.0	21.7	6.40	72.2	
Carleton	Parr	DS1			12-Aug-08	5.0	21.7	6.30	71.1	
Carleton	Parr	DS1			12-Aug-08	6.0	21.7	6.40	72.2	
Carleton	Parr	DS1			12-Aug-08	0.0	9.0	10.48	89.9	
Carleton	Parr	DS1			21-Oct-09	1.0	9.0	10.48	89.9	
Carleton	Parr	DS1			21-Oct-09	2.0	9.0	10.46	89.7	
Carleton	Parr	DS1			21-Oct-09	3.0	9.0	10.43	89.4	
Carleton	Parr	DS1			21-Oct-09	4.0	9.0	10.42	89.4	
Carleton	Parr	DS1			21-Oct-09	5.0	9.0	10.40	89.2	
Carleton	Parr	DS1			21-Oct-09	6.0	9.0	10.38	89.0	
Carleton	Parr	DS1			21-Oct-09	7.0	9.0	10.37	89.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Parr	DS1			21-Oct-09	0.0	17.3	8.96	97.4	
Carleton	Parr	DS1			26-Sep-10	1.0	17.1	8.96	97.2	
Carleton	Parr	DS1			26-Sep-10	2.0	17.1	8.91	91.5	
Carleton	Parr	DS1			26-Sep-10	3.0	16.9	8.84	90.6	
Carleton	Parr	DS1			26-Sep-10	4.0	16.8	8.76	89.5	
Carleton	Parr	DS1			26-Sep-10	5.0	16.8	8.67	88.0	
Carleton	Parr	DS1			26-Sep-10	6.0	16.8	8.51	86.9	
Carleton	Parr	DS1			26-Sep-10	0.0	27.7	7.15	81.4	
Carleton	Parr	DS1			23-Aug-11	1.0	22.0	7.07	80.7	
Carleton	Parr	DS1			23-Aug-11	2.0	21.6	7.03	79.1	
Carleton	Parr	DS1			23-Aug-11	3.0	21.6	6.91	77.7	
Carleton	Parr	DS1			23-Aug-11	4.0	21.4	6.86	77.0	
Carleton	Parr	DS1			23-Aug-11	5.0	21.4	6.76	75.8	
Carleton	Parr	DS1			23-Aug-11	6.0	21.4	6.77	75.9	
Carleton	Parr	DS1			23-Aug-11	0.5	15.2	10.40	104.0	
Carleton	Parr	DS1	267383	4885955	5-May-13	1.0	14.3	10.10	99.0	
Carleton	Parr	DS1			5-May-13	2.0	14.0	10.00	97.0	
Carleton	Parr	DS1			5-May-13	3.0	13.9	9.80	95.0	
Carleton	Parr	DS1			5-May-13	4.0	13.7	9.80	95.0	
Carleton	Parr	DS1			5-May-13	5.0	13.4	9.50	91.0	
Carleton	Parr	DS1			5-May-13	6.0	12.7	9.30	87.0	
Carleton	Parr	DS1	267370	4885932	8-Jul-13	0.3	24.4	7.40	89.0	
Carleton	Parr	DS1			8-Jul-13	1.0	24.4	7.30	87.0	
Carleton	Parr	DS1			8-Jul-13	2.0	23.9	7.00	83.0	
Carleton	Parr	DS1			8-Jul-13	3.0	23.1	6.70	78.0	
Carleton	Parr	DS1			8-Jul-13	4.0	20.0	6.20	74.0	
Carleton	Parr	DS1			8-Jul-13	5.0	19.1	6.50	70.0	
Carleton	Parr	DS1			8-Jul-13	6.0	18.8	6.10	66.0	
Carleton	Parr	DS1			8-Jul-13	7.0	18.1	4.90	51.0	
Carleton	Parr	DS1	267374	4885930	12-Aug-13	0.25	22.2	7.50	87.0	
Carleton	Parr	DS1			12-Aug-13	1.0	22.2	7.50	87.0	
Carleton	Parr	DS1			12-Aug-13	2.0	22.2	7.50	87.0	
Carleton	Parr	DS1			12-Aug-13	3.0	22.0	7.50	86.0	
Carleton	Parr	DS1			12-Aug-13	4.0	22.0	7.40	85.0	
Carleton	Parr	DS1			12-Aug-13	5.0	21.9	7.30	84.0	
Carleton	Parr	DS1			12-Aug-13	6.0	21.7	7.10	81.0	
Carleton	Parr	DS1	267402	4885946	28-Oct-13	0.3	10.9	10.70	92.0	
Carleton	Parr	DS1			28-Oct-13	1.0	10.9	10.00	91.0	
Carleton	Parr	DS1			28-Oct-13	2.0	10.9	9.90	90.0	
Carleton	Parr	DS1			28-Oct-13	3.0	10.8	9.80	89.0	
Carleton	Parr	DS1			28-Oct-13	4.0	10.8	9.80	89.0	
Carleton	Parr	DS1			28-Oct-13	5.0	10.8	9.80	89.0	
Carleton	Parr	DS1			28-Oct-13	6.0	10.8	9.80	88.0	
Carleton	Parr	DS1			28-Oct-13	7.0	10.8	9.80	88.0	
Carleton	Parr	DS1	mixed: close to others		13-May-14	0.3	14.0	9.90	96.0	
Carleton	Parr	DS1			13-May-14	1.0	14.0	9.90	96.0	
Carleton	Parr	DS1			13-May-14	2.0	14.1	9.90	96.0	
Carleton	Parr	DS1			13-May-14	3.0	14.0	9.90	96.0	
Carleton	Parr	DS1			13-May-14	4.0	13.9	9.90	96.0	
Carleton	Parr	DS1			13-May-14	5.0	13.9	9.90	96.0	
Carleton	Parr	DS1			13-May-14	6.0	13.4	9.70	93.0	
Carleton	Parr	DS1			13-May-14	7.0	13.2	9.50	91.0	
Carleton	Parr	DS1	267402	4885919	25-Aug-14	0.3	21.7	7.30	83.0	
Carleton	Parr	DS1			25-Aug-14	1.0	21.7	7.70	87.0	
Carleton	Parr	DS1			25-Aug-14	2.0	21.5	7.00	79.0	
Carleton	Parr	DS1			25-Aug-14	3.0	21.2	7.10	80.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Parr	DS1			25-Aug-14	4.0	21.7	7.00	79.0	
Carleton	Parr	DS1			25-Aug-14	5.0	21.1	6.90	78.0	
Carleton	Parr	DS1			25-Aug-14	6.0	21.1	7.00	78.0	
Carleton	Parr	DS1	267403	4885938	20-Oct-14	0.25	15.5	9.20	97.0	
Carleton	Parr	DS1			20-Oct-14	1.0	15.5	9.00	90.0	
Carleton	Parr	DS1			20-Oct-14	2.0	15.6	8.90	89.0	
Carleton	Parr	DS1			20-Oct-14	3.0	15.6	8.90	89.0	
Carleton	Parr	DS1			20-Oct-14	4.0	15.6	8.90	89.0	
Carleton	Parr	DS1			20-Oct-14	5.0	15.6	8.90	89.0	
Carleton	Parr	DS1			20-Oct-14	6.0	15.6	8.70	88.0	
Carleton	Parr	DS1	Attached number to other?		11-May-15	0.25	13.6			
Carleton	Parr	DS1			11-May-15	1.0	13.6			
Carleton	Parr	DS1			11-May-15	2.0	13.50			
Carleton	Parr	DS1			11-May-15	3.0	13.40			
Carleton	Parr	DS1			11-May-15	4.0	13.30			
Carleton	Parr	DS1			11-May-15	5.0	13.20			
Carleton	Parr	DS1			11-May-15	6.0	13.10			
Carleton	Parr	DS1	267393	4885927	20-Aug-15	0.25	23.6	7.10	87.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	1.0	23.5	6.80	83.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	2.0	25.2	6.90	84.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	3.0	24.8	6.40	77.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	3.6	23.1	5.30	62.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	4.0	22.6	5.30	61.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	5.0	21.5	3.20	37.0	
Carleton	Parr	DS1	267393	4885927	20-Aug-15	6.0	21.0	2.40	24.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	0.3	11.5	9.50	87.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	1.0	11.4	9.50	89.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	2.0	11.4	9.50	87.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	3.0	11.4	9.50	87.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	4.0	11.4	9.50	87.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	5.0	11.4	9.50	87.0	
Carleton	Parr	DS1	267424	4885972	20-Oct-15	6.0	11.4	9.40	86.0	
Carleton	Parr	DS1	Not taken		1-May-16	0.25	12.0			Temperature taken by thermometer air temp 10 degrees
Carleton	Parr	DS1	Not taken		21-Aug-16	0.25	24.0			
Carleton	Parr	DS1	Not taken		21-Aug-16	2.70	23.0			
Carleton	Parr	DS1	Not taken		21-Aug-16	5.10	22.0			
Carleton	Parr	Wayl	266940	4884041	22-Aug-16	0.25	23.7	9.10	107.0	On shore, north to Wayne Brittain: overcast: 9:40 A.M.
Carleton	Parr	DS1	Not taken		16-Oct-16	0.25	13.33			Light cloud, moderate wind.
Carleton	Parr	DS1	Not taken		16-Oct-16	2.00	12.22			
Carleton	Parr	DS1	Not taken		16-Oct-16	6.50	11.67			
Carleton	Parr	DS1	Not taken		7-May-17	0.25	14.44			
Carleton	Parr	DS1	Not taken		7-May-17	2.40	12.78			
Carleton	Parr	DS1	Not taken		7-May-17	N/A	N/A			
Carleton	Parr	INA			20-Aug-17	0.25	17.48	6.23	65	
Carleton	Parr	INA			20-Aug-17	1.55	17.47	6.42	68.7	
Carleton	Parr	INB			20-Aug-17	0.25	16.44	7.09	72.1	
Carleton	Parr	INC			20-Aug-17	0.25	15.88	7.65	77.3	
Carleton	Parr	DS1			20-Aug-17	0.25	21.04	5.61	63	
Carleton	Parr	DS1			20-Aug-17	7.00	20.95	5.6	62.7	
Carleton	Parr	DS1			20-Aug-17	5.80	19.29	5.76	62.3	
Carleton	Parr	CIL1			20-Aug-17	0.25	21.08	6.71	75.5	
Carleton	Parr	CIL1			20-Aug-17	1.90	21.13	7.13	80.1	
Carleton	Parr	DS1			15-Oct-17	0.25	13.56			
Carleton	Parr	DS1			15-Oct-17	1.70	13.56			
Carleton	Parr	DS1			15-Oct-17		13.56			

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Ogden	DS1			25-Sep-10	0.0	22.3	8.82	100.6	
Carleton	Ogden	DS1			2-Jul-02	0.5	22.3	8.84	100.9	
Carleton	Ogden	DS1			2-Jul-02	1.0	22.0	8.77	99.5	
Carleton	Ogden	DS1			2-Jul-02	1.5	20.7	8.64	95.6	
Carleton	Ogden	DS1			2-Jul-02	2.0	20.0	8.49	92.6	
Carleton	Ogden	DS1			2-Jul-02	2.5	19.5	8.27	89.3	
Carleton	Ogden	DS1			2-Jul-02	3.0	19.4	8.26	89.3	
Carleton	Ogden	DS1			2-Jul-02	3.5	19.3	8.29	89.7	
Carleton	Ogden	DS1			2-Jul-02	4.0	19.2	8.21	88.1	
Carleton	Ogden	DS1			2-Jul-02	4.5	19.1	8.03	86.0	
Carleton	Ogden	DS1			2-Jul-02	5.0	18.7	7.70	81.8	
Carleton	Ogden	DS1			2-Jul-02	5.5	18.3	7.46	78.6	
Carleton	Ogden	DS1			2-Jul-02	6.0	17.6	7.17	74.5	
Carleton	Ogden	DS1			2-Jul-02	6.5	16.7	7.17	73.1	
Carleton	Ogden	DS1			2-Jul-02	7.0	16.1	7.36	74.1	
Carleton	Ogden	DS1			2-Jul-02	7.5	15.5	6.84	68.0	
Carleton	Ogden	DS1			2-Jul-02	8.0	15.2	7.45	73.6	
Carleton	Ogden	DS1			2-Jul-02	8.5	14.9	7.55	74.1	
Carleton	Ogden	DS1			2-Jul-02	9.0	14.6	7.58	73.9	
Carleton	Ogden	DS1			2-Jul-02	9.5	14.4	7.54	73.2	
Carleton	Ogden	DS1			2-Jul-02	10.0	13.8	7.49	71.7	
Carleton	Ogden	DS1			2-Jul-02	10.5	13.4	7.44	70.6	
Carleton	Ogden	DS1			2-Jul-02	11.0	13.3	7.42	70.3	
Carleton	Ogden	DS1			2-Jul-02	11.5	13.0	7.22	67.9	
Carleton	Ogden	DS1			2-Jul-02	12.0	12.4	7.07	65.6	
Carleton	Ogden	DS1			2-Jul-02	12.5	11.9	6.66	61.0	
Carleton	Ogden	DS1			2-Jul-02	13.0	11.5	6.53	59.4	
Carleton	Ogden	DS1			2-Jul-02	13.5	11.2	6.29	56.4	
Carleton	Ogden	DS1			2-Jul-02	14.0	11.1	6.27	56.5	
Carleton	Ogden	DS1			2-Jul-02	14.5	11.1	6.13	55.4	
Carleton	Ogden	DS1			2-Jul-02	15.0	11.0	6.04	54.3	
Carleton	Ogden	DS1			2-Jul-02	0.0	22.2	7.70	87.7	
Carleton	Ogden	DS1			27-Aug-02	1.0	22.2	7.61	86.7	
Carleton	Ogden	DS1			27-Aug-02	2.0	22.2	7.66	87.2	
Carleton	Ogden	DS1			27-Aug-02	3.0	22.1	7.63	86.7	
Carleton	Ogden	DS1			27-Aug-02	4.0	22.1	7.60	86.4	
Carleton	Ogden	DS1			27-Aug-02	5.0	22.1	7.60	86.4	
Carleton	Ogden	DS1			27-Aug-02	5.5	21.9			
Carleton	Ogden	DS1			27-Aug-02	6.0	22.0	7.59	86.1	
Carleton	Ogden	DS1			27-Aug-02	6.5	21.9	7.42	84.0	
Carleton	Ogden	DS1			27-Aug-02	7.0	21.4	6.27	69.8	
Carleton	Ogden	DS1			27-Aug-02	7.5	16.9	1.10	11.7	
Carleton	Ogden	DS1			27-Aug-02	8.0	16.8	1.09	11.1	
Carleton	Ogden	DS1			27-Aug-02	8.5	15.1	1.98	19.5	
Carleton	Ogden	DS1			27-Aug-02	9.0	14.4	1.57	15.2	
Carleton	Ogden	DS1			27-Aug-02	9.5	13.5	2.38	22.6	
Carleton	Ogden	DS1			27-Aug-02	10.0	12.6	2.60	24.1	
Carleton	Ogden	DS1			27-Aug-02	10.5	12.5	2.49	23.2	
Carleton	Ogden	DS1			27-Aug-02	11.0	12.3	2.32	21.5	
Carleton	Ogden	DS1			27-Aug-02	11.5	12.0	2.07	19.0	
Carleton	Ogden	DS1			27-Aug-02	12.0	11.8	1.74	15.9	
Carleton	Ogden	DS1			27-Aug-02	13.0	11.5	1.51	13.7	
Carleton	Ogden	DS1			27-Aug-02	14.0	11.3	1.13	10.2	
Carleton	Ogden	DS1			27-Aug-02	15.0	11.1	0.80	7.2	
Carleton	Ogden	DS1			27-Aug-02	0.0	21.5	6.50	72.8	
Carleton	Ogden	DS1			14-Aug-08	1.0	21.5	6.50	72.8	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Ogden	DS1			14-Aug-08	2.0	21.3	6.60	73.9	
Carleton	Ogden	DS1			14-Aug-08	3.0	21.3	6.60	73.9	
Carleton	Ogden	DS1			14-Aug-08	4.0	21.3	6.60	73.9	
Carleton	Ogden	DS1			14-Aug-08	5.0	21.3	6.60	73.9	
Carleton	Ogden	DS1			14-Aug-08	6.0	21.3	6.40	71.6	
Carleton	Ogden	DS1			14-Aug-08	7.0	20.7	4.50	49.8	
Carleton	Ogden	DS1			14-Aug-08	8.0	18.0	1.50	15.7	
Carleton	Ogden	DS1			14-Aug-08	9.0	15.2	2.90	28.6	
Carleton	Ogden	DS1			14-Aug-08	10.0	14.5	2.40	23.3	
Carleton	Ogden	DS1			14-Aug-08	11.0	14.0	2.80	24.9	
Carleton	Ogden	DS1			14-Aug-08	12.0	13.4	2.30	21.8	
Carleton	Ogden	DS1			14-Aug-08	13.0	13.0	1.30	12.2	
Carleton	Ogden	DS1			14-Aug-08	14.0	12.8	1.00	9.4	
Carleton	Ogden	DS1			14-Aug-08	15.0	12.7	0.80	7.5	
Carleton	Ogden	DS1			14-Aug-08	16.0	12.7	0.70	6.5	
Carleton	Ogden	DS1			14-Aug-08	17.0	12.6	0.70	6.5	
Carleton	Ogden	DS1			14-Aug-08	18.0	12.5	0.70	6.5	
Carleton	Ogden	DS1			14-Aug-08	0.0	10.0	10.30	90.4	
Carleton	Ogden	DS1			21-Oct-09	1.0	10.0	10.28	90.3	
Carleton	Ogden	DS1			21-Oct-09	2.0	10.0	10.27	90.2	
Carleton	Ogden	DS1			21-Oct-09	3.0	10.0	10.26	90.1	
Carleton	Ogden	DS1			21-Oct-09	4.0	10.0	10.24	89.9	
Carleton	Ogden	DS1			21-Oct-09	5.0	10.0	10.22	89.8	
Carleton	Ogden	DS1			21-Oct-09	6.0	10.0	10.21	89.7	
Carleton	Ogden	DS1			21-Oct-09	7.0	10.0	10.16	89.2	
Carleton	Ogden	DS1			21-Oct-09	8.0	10.0	10.16	89.2	
Carleton	Ogden	DS1			21-Oct-09	9.0	10.0	10.12	88.9	
Carleton	Ogden	DS1			21-Oct-09	10.0	10.0	10.12	88.9	
Carleton	Ogden	DS1			21-Oct-09	11.0	10.0	10.08	88.5	
Carleton	Ogden	DS1			21-Oct-09	12.0	10.0	10.07	88.4	
Carleton	Ogden	DS1			21-Oct-09	13.0	10.0	10.06	88.2	
Carleton	Ogden	DS1			21-Oct-09	14.0	10.0	10.01	87.8	
Carleton	Ogden	DS1			21-Oct-09	15.0	9.9	9.98	87.5	
Carleton	Ogden	DS1			21-Oct-09	16.0	9.9	9.98	87.5	
Carleton	Ogden	DS1			21-Oct-09	17.0	9.9	9.94	87.2	
Carleton	Ogden	DS1			21-Oct-09	18.0	9.9	9.93	87.1	
Carleton	Ogden	DS1			21-Oct-09	19.0	9.9	9.90	86.7	
Carleton	Ogden	DS1			21-Oct-09	0.0	17.3	8.59	88.6	
Carleton	Ogden	DS1			27-Sep-10	2.0	17.2	8.56	88.3	
Carleton	Ogden	DS1			27-Sep-10	4.0	17.2	8.50	87.6	
Carleton	Ogden	DS1			27-Sep-10	6.0	17.2	8.33	85.8	
Carleton	Ogden	DS1			27-Sep-10	8.0	17.2	8.27	85.2	
Carleton	Ogden	DS1			27-Sep-10	10.0	17.1	7.99	82.2	
Carleton	Ogden	DS1			27-Sep-10	12.0	17.1	7.78	79.9	
Carleton	Ogden	DS1			27-Sep-10	13.0	15.1	0.38	3.7	
Carleton	Ogden	DS1			27-Sep-10	14.0	12.9	0.23	2.2	
Carleton	Ogden	DS1			27-Sep-10	15.0	12.6	0.18	1.7	
Carleton	Ogden	DS1			27-Sep-10	16.0	12.5	0.15	1.4	
Carleton	Ogden	DS1			27-Sep-10	17.0	12.2	0.14	1.3	
Carleton	Ogden	DS1			27-Sep-10	0.0	21.7	7.69	86.7	
Carleton	Ogden	DS1			23-Aug-11	1.0	21.7	7.60	85.8	
Carleton	Ogden	DS1			23-Aug-11	2.0	21.6	7.29	82.0	
Carleton	Ogden	DS1			23-Aug-11	3.0	21.4	7.10	79.6	
Carleton	Ogden	DS1			23-Aug-11	4.0	21.2	6.48	72.4	
Carleton	Ogden	DS1			23-Aug-11	5.0	21.3	6.31	70.6	
Carleton	Ogden	DS1			23-Aug-11	6.0	21.2	6.13	68.4	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Ogden	DS1			23-Aug-11	7.0	21.0	5.40	60.1	
Carleton	Ogden	DS1			23-Aug-11	8.0	20.8	4.38	48.5	
Carleton	Ogden	DS1			23-Aug-11	9.0	18.3	1.91	20.1	
Carleton	Ogden	DS1			23-Aug-11	10.0	13.1	1.45	13.7	
Carleton	Ogden	DS1			23-Aug-11	11.0	12.1	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	12.0	11.8	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	13.0	11.6	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	14.0	11.5	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	15.0	11.4	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	16.0	11.4	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	17.0	11.3	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	18.0	11.3	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	19.0	11.3	0.00	0.0	
Carleton	Ogden	DS1			23-Aug-11	20.0	11.2	0.00	0.0	
Carleton	Ogden	DS1	267409	4880935	25-Aug-14	0.3	22.2	8.50	98.0	
Carleton	Ogden	DS1			25-Aug-14	1.0	22.0	8.30	95.0	
Carleton	Ogden	DS1			25-Aug-14	2.0	21.9	7.70	84.0	
Carleton	Ogden	DS1			25-Aug-14	3.0	21.8	7.40	84.0	
Carleton	Ogden	DS1			25-Aug-14	4.0	21.7	7.30	83.0	
Carleton	Ogden	DS1			25-Aug-14	5.0	21.7	7.20	81.0	
Carleton	Ogden	DS1			25-Aug-14	6.0	21.5	6.30	77.0	
Carleton	Ogden	DS1			25-Aug-14	7.0	21.4	6.70	76.0	
Carleton	Ogden	DS1			25-Aug-14	8.0	20.2	3.80	42.0	
Carleton	Ogden	DS1			25-Aug-14	9.0	15.7	2.00	20.0	
Carleton	Ogden	DS1			25-Aug-14	10.0	13.2	3.30	31.0	
Carleton	Ogden	DS1			25-Aug-14	11.0	11.7	3.50	32.0	
Carleton	Ogden	DS1			25-Aug-14	14.5	10.7	1.60	15.0	
Carleton	Ogden	DS1			25-Aug-14	17.0	10.5	0.70	7.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	0.25	24.9	8.00	97.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	1.0	24.7	7.90	95.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	2.0	24.7	7.70	92.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	2.3	24.6	7.80	94.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	3.0	23.3	7.20	83.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	4.0	22.5	6.10	70.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	5.0	21.8	4.80	55.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	6.0	20.7	3.00	33.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	7.0	18.2	1.10	12.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	8.0	13.5	2.10	21.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	9.0	13.0	3.80	34.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	10.0	10.7	4.30	36.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	11.0	9.6	4.50	39.0	
Carleton	Ogden	DS1	267344	4881102	20-Aug-15	14.0	10.8	4.50	41.0	
Carleton	Ogden	DS1	Not taken		21-Aug-16	0.3	26.7			
Carleton	Ogden	DS1	Not taken		21-Aug-16	2.5	24.4			
Carleton	Ogden	DS1	Not taken		21-Aug-16	17.6	16.7			
Carleton	Ogden	Chal	266671	4881939	22-Aug-16	0.3	23.6	8.70	103.0	Taken South of end of Beechwood lane (N 9.75: overcast)
Carleton	Ogden	IN1			20-Aug-17	0.25	21.2	6.35	71.5	
Carleton	Ogden	IN1			20-Aug-17	1.2	21.2	6.6	73.7	
Carleton	Ogden	DS1			20-Aug-17	0.25	21.97	5.14	59.3	
Carleton	Ogden	DS1			20-Aug-17	4.0	21.03	4.48	51	
Carleton	Ogden	DS1			20-Aug-17	19.0	8.34	0.67	5.9	
Carleton	Ogden	OL1			20-Aug-17	0.25	21.6	6.22	70.2	
Carleton	Ogden	OL1			20-Aug-17	1.2	21.0	6.58	73.2	
Carleton	Fanning	DS1			2-JUL-02	0.0	23.7	9.37	109.8	
Carleton	Fanning	DS1			2-JUL-02	0.5	23.7	9.23	108.2	
Carleton	Fanning	DS1			2-JUL-02	1.0	23.6	9.23	108.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Fanning	DS1			2-Jul-07	0.5	23.4	9.24	107.7	
Carleton	Fanning	DS1			2-Jul-07	2.0	21.9	9.32	105.5	
Carleton	Fanning	DS1			2-Jul-07	2.5	21.7	9.03	101.9	
Carleton	Fanning	DS1			2-Jul-07	3.0	20.3	8.79	91.0	
Carleton	Fanning	DS1			2-Jul-07	3.5	19.8	8.09	87.9	
Carleton	Fanning	DS1			2-Jul-07	4.0	19.1	7.77	83.2	
Carleton	Fanning	DS1			2-Jul-07	4.5	18.6	6.67	70.7	
Carleton	Fanning	DS1			2-Jul-07	5.0	17.8	6.73	70.2	
Carleton	Fanning	DS1			2-Jul-07	5.5	14.6	6.73	68.5	
Carleton	Fanning	DS1			2-Jul-07	6.0	15.7	6.78	67.7	
Carleton	Fanning	DS1			2-Jul-07	6.5	15.[illegible]	6.93	68.3	
Carleton	Fanning	DS1			2-Jul-07	7.0	14.7	6.87	67.[illegible]	
Carleton	Fanning	DS1			2-Jul-07	7.5	14.5	5.71	55.5	
Carleton	Fanning	DS1			2-Jul-07	8.0	14.3	5.51	53.4	
Carleton	Fanning	DS1			2-Jul-07	8.5	14.2	5.71	55.2	
Carleton	Fanning	DS1			2-Jul-07	9.0	14.1	5.51	53.[illegible]	
Carleton	Fanning	DS1			2-Jul-07	9.5	14.0	5.29	50.8	
Carleton	Fanning	DS1			2-Jul-07	10.0	13.9	4.42	42.4	
Carleton	Fanning	DS1			2-Jul-07	10.5	13.8	4.40	42.[illegible]	
Carleton	Fanning	DS1			2-Jul-07	11.0	13.8	3.37	32.3	
Carleton	Fanning	DS1			31-Jul-07	0.0	23.1	7.79	90.3	
Carleton	Fanning	DS1			27-Aug-07	1.0	22.3	7.70	87.9	
Carleton	Fanning	DS1			27-Aug-07	2.0	22.3	7.70	87.9	
Carleton	Fanning	DS1			27-Aug-07	3.0	22.2	7.67	87.4	
Carleton	Fanning	DS1			27-Aug-07	4.0	22.8	7.67	88.4	
Carleton	Fanning	DS1			27-Aug-07	5.0	22.1	7.52	83.5	
Carleton	Fanning	DS1			27-Aug-07	5.5	21.0	3.99	44.4	
Carleton	Fanning	DS1			27-Aug-07	6.0	18.1	0.13	1.4	
Carleton	Fanning	DS1			27-Aug-07	6.5	16.8	0.08	0.8	
Carleton	Fanning	DS1			27-Aug-07	7.0	15.7	0.05	0.5	
Carleton	Fanning	DS1			27-Aug-07	7.5	14.7	0.04	0.4	
Carleton	Fanning	DS1			27-Aug-07	8.0	14.2	0.04	0.4	
Carleton	Fanning	DS1			27-Aug-07	8.5	13.9	0.03	0.3	
Carleton	Fanning	DS1			27-Aug-07	9.0	13.6	0.01	0.1	
Carleton	Fanning	DS1			27-Aug-07	9.5	13.4	0.02	0.2	
Carleton	Fanning	DS1			27-Aug-07	10.0	13.2	0.03	0.3	
Carleton	Fanning	DS1			12-Aug-08	1.0	23.5	7.31	85.3	
Carleton	Fanning	DS1			12-Aug-08	2.0	22.8	7.51	84.5	
Carleton	Fanning	DS1			12-Aug-08	3.0	22.4	7.30	83.5	
Carleton	Fanning	DS1			12-Aug-08	4.0	22.3	7.17	81.8	
Carleton	Fanning	DS1			12-Aug-08	5.0	22.2	6.92	78.8	
Carleton	Fanning	DS1			12-Aug-08	6.0	22.1	6.60	75.0	
Carleton	Fanning	DS1			12-Aug-08	7.0	20.6	0.56	6.2	
Carleton	Fanning	DS1			12-Aug-08	8.0	18.1	0.13	1.4	
Carleton	Fanning	DS2			12-Oct-09	0.0	12.0	9.57	88.1	
Carleton	Fanning	DS1			12-Oct-09	0.0	12.7	9.54	89.2	
Carleton	Fanning	DS1			12-Oct-09	1.0	12.9	9.51	89.2	
Carleton	Fanning	DS1			12-Oct-09	2.0	12.9	9.54	89.5	
Carleton	Fanning	DS1			12-Oct-09	3.0	12.9	9.49	89.0	
Carleton	Fanning	DS1			12-Oct-09	4.0	12.8	9.47	88.8	
Carleton	Fanning	DS1			12-Oct-09	5.0	12.8	9.46	88.7	
Carleton	Fanning	DS1			12-Oct-09	6.0	12.8	9.40	88.1	
Carleton	Fanning	DS1			12-Oct-09	7.0	12.8	9.40	88.1	
Carleton	Fanning	DS1			12-Oct-09	8.0	12.8	9.34	87.6	
Carleton	Fanning	DS1			12-Oct-09	9.0	12.8	9.29	87.0	
Carleton	Fanning	DS2			12-Oct-09	1.0	12.7	9.53	89.1	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Kanning	DS2			12-Oct-09	2.0	12.3	9.54	88.7	
Carleton	Kanning	DS2			12-Oct-09	3.0	12.5	9.48	88.1	
Carleton	Kanning	DS3			29-Sep-10	0.0	18.3	8.88	94.0	
Carleton	Kanning	DS3			29-Sep-10	1.0	18.3	8.88	94.1	
Carleton	Kanning	DS3			29-Sep-10	2.0	18.3	8.86	93.8	
Carleton	Kanning	DS3			29-Sep-10	3.0	18.3	8.87	93.9	
Carleton	Kanning	DS3			29-Sep-10	4.0	18.3	8.83	93.5	
Carleton	Kanning	DS3			29-Sep-10	5.0	18.4	8.63	91.7	
Carleton	Kanning	DS3			29-Sep-10	6.0	18.2	8.26	87.2	
Carleton	Kanning	DS3			29-Sep-10	7.0	17.6	7.38	76.7	
Carleton	Kanning	DS3			29-Sep-10	8.0	17.5	6.98	72.3	
Carleton	Kanning	DS3			29-Sep-10	8.5	17.5	7.06	73.1	
Carleton	Kanning	DS3			15-Aug-11	0.0	21.9	7.40	83.8	
Carleton	Kanning	DS3			15-Aug-11	1.0	21.9	7.40	83.8	
Carleton	Kanning	DS3			15-Aug-11	2.0	21.9	7.40	83.8	
Carleton	Kanning	DS3			15-Aug-11	3.0	21.9	7.34	83.1	
Carleton	Kanning	DS3			15-Aug-11	4.0	21.9	7.40	83.7	
Carleton	Kanning	DS3			15-Aug-11	5.0	21.8	7.27	82.1	
Carleton	Kanning	DS3			15-Aug-11	6.0	18.6	0.90	9.6	
Carleton	Kanning	DS3			15-Aug-11	7.0	16.8	0.00	0.0	
Carleton	Kanning	DS3			15-Aug-11	8.0	15.5	0.00	0.0	
Carleton	Kanning	DS3			15-Aug-11	9.0	14.9	0.00	0.0	
Carleton	Kanning	DS3			15-Aug-11	10.0	13.9	0.00	0.0	
Carleton	Kanning	DS3	266178	4878172	5-May-13	0.5	14.1	10.30	103.0	
Carleton	Kanning	DS3			5-May-13	1.0	13.9	10.10	97.0	
Carleton	Kanning	DS3			5-May-13	2.0	13.9	10.30	99.0	
Carleton	Kanning	DS3			5-May-13	3.0	13.5	10.20	98.0	
Carleton	Kanning	DS3			5-May-13	4.0	13.4	9.00	96.0	
Carleton	Kanning	DS3			5-May-13	5.0	13.1	9.90	95.0	
Carleton	Kanning	DS3			5-May-13	6.0	12.6	9.80	92.0	
Carleton	Kanning	DS3	266143	4878084	7-Jul-13	0.25	23.8	8.30	96.0	
Carleton	Kanning	DS3			7-Jul-13	1.0	22.7	7.70	90.0	
Carleton	Kanning	DS3			7-Jul-13	1.9	22.1	7.60	87.0	
Carleton	Kanning	DS3			7-Jul-13	3.0	22.0	7.60	86.0	
Carleton	Kanning	DS3			7-Jul-13	4.0	21.9	7.50	85.0	
Carleton	Kanning	DS3			7-Jul-13	5.0	21.8	7.50	85.0	
Carleton	Kanning	DS3			7-Jul-13	6.0	21.6	7.40	83.0	
Carleton	Kanning	DS3			7-Jul-13	7.0	20.9	7.00	78.0	
Carleton	Kanning	DS3	266149	4878055	11-Aug-13	0.25	23.1	7.90	93.0	
Carleton	Kanning	DS3			11-Aug-13	1.0	22.6	7.75	89.0	
Carleton	Kanning	DS3			11-Aug-13	2.0	22.5	7.50	86.0	
Carleton	Kanning	DS3			11-Aug-13	3.0	22.3	7.10	83.0	
Carleton	Kanning	DS3			11-Aug-13	4.0	22.2	7.20	82.0	
Carleton	Kanning	DS3			11-Aug-13	5.0	22.2	7.10	81.0	
Carleton	Kanning	DS3	266143	4878084	20-Oct-13	0.25	14.9	9.60	95.0	
Carleton	Kanning	DS3			20-Oct-13	1.0	14.9	9.20	91.0	
Carleton	Kanning	DS3			20-Oct-13	2.0	14.9	9.00	89.0	
Carleton	Kanning	DS3			20-Oct-13	3.0	14.9	8.80	88.0	
Carleton	Kanning	DS3			20-Oct-13	4.0	14.5	8.90	88.0	
Carleton	Kanning	DS3			20-Oct-13	5.0	14.5	8.90	88.0	
Carleton	Kanning	DS3	266240	4878065	11-May-14	0.3	12.8	11.70	111.0	
Carleton	Kanning	DS3			11-May-14	1.0	12.8	11.30	107.0	
Carleton	Kanning	DS3			11-May-14	2.0	12.6	11.20	105.0	
Carleton	Kanning	DS3			11-May-14	2.4	12.5	11.00	103.0	
Carleton	Kanning	DS3			11-May-14	3.0	12.5	11.10	104.0	
Carleton	Kanning	DS3			11-May-14	4.0	12.5	11.00	103.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Fanning	DS3			11-May-14	5.0	17.3	11.00	103.0	
Carleton	Fanning	DS3			11-May-14	6.0	17.3	11.00	103.0	
Carleton	Fanning	DS3	266172	4878105	26-Aug-14	0.3	23.0	8.30	97.0	
Carleton	Fanning	DS3			26-Aug-14	1.0	22.2	8.20	94.0	
Carleton	Fanning	DS3			26-Aug-14	2.0	22.0	8.00	91.0	
Carleton	Fanning	DS3			26-Aug-14	3.0	21.9	7.90	90.0	
Carleton	Fanning	DS3			26-Aug-14	4.0	21.9	8.10	93.0	
Carleton	Fanning	DS3			26-Aug-14	5.0	21.8	7.20	83.0	
Carleton	Fanning	DS3			26-Aug-14	5.5	21.6	6.80	77.0	
Carleton	Fanning	DS3	266243	4878064	19-Oct-14	0.25	16.6	9.50	98.0	
Carleton	Fanning	DS3			19-Oct-14	1.0	16.6	9.40	97.0	
Carleton	Fanning	DS3			19-Oct-14	2.0	16.5	9.40	96.0	
Carleton	Fanning	DS3			19-Oct-14	3.0	16.5	9.20	95.0	
Carleton	Fanning	DS3			19-Oct-14	4.0	16.5	9.20	94.0	
Carleton	Fanning	DS3			19-Oct-14	5.0	16.4	9.10	93.0	
Carleton	Fanning	DS3			19-Oct-14	6.0	16.3	8.80	88.0	
Carleton	Fanning	DS3	266190	4878083	10-May-15	0.25	11.8			
Carleton	Fanning	DS3			10-May-15	1.0	11.7			
Carleton	Fanning	DS3			10-May-15	2.0	11.7			
Carleton	Fanning	DS3			10-May-15	3.0	11.6			
Carleton	Fanning	DS3			10-May-15	3.5	11.6			
Carleton	Fanning	DS3			10-May-15	4.0	11.6			
Carleton	Fanning	DS3			10-May-15	5.0	11.5			
Carleton	Fanning	DS3			10-May-15	6.0	11.5			
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	0.3	23.8	8.20	97.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	1.0	23.7	8.30	98.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	2.0	23.8	8.20	97.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	2.8	23.1	7.20	84.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	3.0	22.7	6.60	77.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	4.0	22.0	6.00	68.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	5.0	21.[illegible]	3.60	41.0	
Carleton	Fanning	DS1	266181	4878118	16-Aug-15	6.0	18.8	1.20	13.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	0.3	13.8	9.50	97.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	1.0	13.9	9.50	97.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	2.0	13.9	9.50	97.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	3.0	13.9	9.50	97.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	4.0	13.9	9.50	97.0	
Carleton	Fanning	DS1	266222	4878012	18-Oct-15	5.0	13.9	9.50	97.0	
Carleton	Fanning	DS1	Not taken		1-May-16	0.25	3.0			Temperature taken by thermometer on hand. =14 degrees
Carleton	Fanning	DS1	Not taken		21-Aug-16	0.25	23.3			
Carleton	Fanning	DS1	Not taken		21-Aug-16	3.10	21.7			
Carleton	Fanning	DS1	Not taken		21-Aug-16	6.00	20.6			
Carleton	Fanning	PT	266001	4877344	22-Aug-16	0.25	23.4	6.40	99.0	Taken at boat launch at Nelson's point at 9:05. Foggy and overcast
Carleton	Fanning	DS1	Not taken		16-Oct-16	0.3	14.44			Light cloud and wind.
Carleton	Fanning	DS1	Not taken		16-Oct-16	3.5	12.22			
Carleton	Fanning	DS1	Not taken		16-Oct-16	6.2	12.22			
Carleton	Fanning	DS1	Not taken		7-May-17	0.25	13.33			
Carleton	Fanning	DS1	Not taken		7-May-17	3.7	11.67			
Carleton	Fanning	DS1	Not taken		7-May-17	N/A	N/A			
Carleton	Fanning	IN1			23-Aug-17	0.25	22.01	6.93	79.7	
Carleton	Fanning	IN2			23-Aug-17	0.25	21.21	7.04	78.9	
Carleton	Fanning	IN3			23-Aug-17	0.25	22.49	7.01	[illegible]	
Carleton	Fanning	DS3			23-Aug-17	0.25	22.01	6.41	73.3	
Carleton	Fanning	DS3			23-Aug-17	3.0	21.98	5.27	62.8	
Carleton	Fanning	DS3			23-Aug-17	10.0	14.85	[illegible]	17.3	
Carleton	Fanning	OU1			23-Aug-17	0.25	21.31	6.42	71.9	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Fanning	DS1			15-Oct-17	0.75	15.56			
Carleton	Fanning	DS1			15-Oct-17	3.10	60.00			
Carleton	Fanning	DS1			15-Oct-17	7.20	14.44			
Carleton	Sloans	DS1			14-Aug-11	0.0	24.0	9.26	109.1	
Carleton	Sloans	DS1			3-Jul-07	0.5	23.9	9.21	108.3	
Carleton	Sloans	DS1			3-Jul-07	1.0	23.7	9.28	108.8	
Carleton	Sloans	DS1			3-Jul-07	1.5	23.7	9.26	108.5	
Carleton	Sloans	DS1			3-Jul-07	2.0	23.4	9.29	108.3	
Carleton	Sloans	DS1			3-Jul-07	2.5	23.1	9.30	107.8	
Carleton	Sloans	DS1			3-Jul-07	3.0	22.3	9.44	107.7	
Carleton	Sloans	DS1			3-Jul-07	3.5	21.1	9.50	105.9	
Carleton	Sloans	DS1			3-Jul-07	4.0	20.5	9.67	104.0	
Carleton	Sloans	DS1			3-Jul-07	4.5	20.0	9.70	103.8	
Carleton	Sloans	DS1			3-Jul-07	5.0	19.0	9.80	104.8	
Carleton	Sloans	DS1			3-Jul-07	5.5	17.7	10.10	105.2	
Carleton	Sloans	DS1			3-Jul-07	6.0	16.2	10.48	105.7	
Carleton	Sloans	DS1			3-Jul-07	6.5	15.4	10.45	103.7	
Carleton	Sloans	DS1			3-Jul-07	7.0	15.4	10.38	103.0	
Carleton	Sloans	DS1			3-Jul-07	7.5	14.3	9.83	95.2	
Carleton	Sloans	DS1			3-Jul-07	8.0	13.8	9.44	90.4	
Carleton	Sloans	DS1			3-Jul-07	8.5	13.3	9.03	85.5	
Carleton	Sloans	DS1			3-Jul-07	9.0	12.7	8.77	82.0	
Carleton	Sloans	DS1			3-Jul-07	9.5	12.4	8.66	80.4	
Carleton	Sloans	DS1			3-Jul-07	10.0	11.7	8.60	78.6	
Carleton	Sloans	DS1			3-Jul-07	10.5	11.4	8.41	76.3	
Carleton	Sloans	DS1			3-Jul-07	11.0	11.2	8.26	74.6	
Carleton	Sloans	DS1			3-Jul-07	11.5	11.2	8.27	74.7	
Carleton	Sloans	DS1			3-Jul-07	12.0	11.0	8.22	73.9	
Carleton	Sloans	DS1			3-Jul-07	12.5	11.0	8.15	73.3	
Carleton	Sloans	DS1			3-Jul-07	13.0	10.9	8.21	73.6	
Carleton	Sloans	DS1			3-Jul-07	13.5	10.9	8.22	73.7	
Carleton	Sloans	DS1			3-Jul-07	14.0	10.8	8.32	74.4	
Carleton	Sloans	DS1			3-Jul-07	14.5	10.7	8.15	72.8	
Carleton	Sloans	DS1			3-Jul-07	15.0	10.6	8.21	73.1	
Carleton	Sloans	DS1			3-Jul-07	0.0	19.9	7.90	86.0	
Carleton	Sloans	DS1			9-Sep-09	1.0	20.0	7.90	84.2	
Carleton	Sloans	DS1			9-Sep-09	2.0	20.0	7.86	85.7	
Carleton	Sloans	DS1			9-Sep-09	3.0	19.9	7.91	86.1	
Carleton	Sloans	DS1			9-Sep-09	4.0	19.9	7.87	85.7	
Carleton	Sloans	DS1			9-Sep-09	5.0	19.9	7.84	85.4	
Carleton	Sloans	DS1			9-Sep-09	6.0	19.9	7.60	82.7	
Carleton	Sloans	DS1			9-Sep-09	7.0	18.4	5.09	53.8	
Carleton	Sloans	DS1			9-Sep-09	8.0	15.6	3.80	37.9	
Carleton	Sloans	DS1			9-Sep-09	9.0	13.3			
Carleton	Sloans	DS1			9-Sep-09	10.0	11.9			
Carleton	Sloans	DS1			9-Sep-09	11.0	11.4			
Carleton	Sloans	DS1			9-Sep-09	12.0	11.0			
Carleton	Sloans	DS1			9-Sep-09	13.0	10.6			
Carleton	Sloans	DS1			9-Sep-09	14.0	10.4			
Carleton	Sloans	DS1			9-Sep-09	15.0	10.3			
Carleton	Sloans	DS1			9-Sep-09	16.0	10.2			
Carleton	Sloans	DS1			9-Sep-09	17.0	9.7			
Carleton	Sloans	DS1			9-Sep-09	18.0	9.1			
Carleton	Sloans	DS1			9-Sep-09	19.0	8.5			
Carleton	Sloans	DS1			9-Sep-09	20.0	7.9			
Carleton	Sloans	DS2			9-Sep-09	0.0	21.0	7.90	87.9	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Sloans	DS2			9-Sep-09	1.0	21.0	7.97	88.7	
Carleton	Sloans	DS2			9-Sep-09	2.0	20.6	7.92	87.4	
Carleton	Sloans	DS2			9-Sep-09	3.0	20.3	7.74	84.9	
Carleton	Sloans	DS2			9-Sep-09	4.0	20.2	7.66	83.9	
Carleton	Sloans	DS2			9-Sep-09	5.0	20.1	7.73	84.5	
Carleton	Sloans	DS2			9-Sep-09	6.0	19.3	7.03	75.6	
Carleton	Sloans	DS2			9-Sep-09	7.0	17.7	4.36	45.4	
Carleton	Sloans	DS2			9-Sep-09	8.0	13.5	2.12	20.2	
Carleton	Sloans	DS2			9-Sep-09	9.0	11.8			
Carleton	Sloans	DS2			9-Sep-09	10.0	10.6			
Carleton	Sloans	DS2			9-Sep-09	11.0	10.0			
Carleton	Sloans	DS2			9-Sep-09	12.0	9.4			
Carleton	Sloans	DS2			9-Sep-09	13.0	9.4			
Carleton	Sloans	DS2			9-Sep-09	14.0	9.3			
Carleton	Sloans	DS2			9-Sep-09	15.0	9.3			
Carleton	Sloans	DS2			9-Sep-09	16.0	9.2			
Carleton	Sloans	DS2			9-Sep-09	17.0	9.2			
Carleton	Sloans	DS1			4-Nov-09	0.0	10.2	10.19	90.0	
Carleton	Sloans	DS1			4-Nov-09	5.0	10.1	10.12	89.1	
Carleton	Sloans	DS1			4-Nov-09	10.0	10.1	10.07	88.6	
Carleton	Sloans	DS1			4-Nov-09	15.0	10.0	9.97	87.6	
Carleton	Sloans	DS1			4-Nov-09	22.0	10.0	9.95	87.4	
Carleton	Sloans	DS2			4-Nov-09	0.0	9.8	10.49	91.6	
Carleton	Sloans	DS2			4-Nov-09	5.0	9.8	10.40	90.8	
Carleton	Sloans	DS2			4-Nov-09	10.0	9.8	10.31	90.0	
Carleton	Sloans	DS2			4-Nov-09	15.0	9.5	10.18	88.3	
Carleton	Sloans	DS2			4-Nov-09	18.0	9.4	10.17	88.1	
Carleton	Sloans	DS1			4-Nov-09	0.0	19.0	9.11	97.4	
Carleton	Sloans	DS1			29-Sep-10	5.0	19.0	9.05	96.7	
Carleton	Sloans	DS1			29-Sep-10	7.0	18.9	8.98	95.9	
Carleton	Sloans	DS1			29-Sep-10	8.0	18.9	8.98	95.9	
Carleton	Sloans	DS1			29-Sep-10	9.0	15.5	2.7[illegible]	26.9	
Carleton	Sloans	DS1			29-Sep-10	10.0	12.0	2.43	27.4	
Carleton	Sloans	DS1			29-Sep-10	11.0	10.9	2.29	20.5	
Carleton	Sloans	DS1			29-Sep-10	12.0	10.4	2.[illegible]	23.9	
Carleton	Sloans	DS1			29-Sep-10	13.0	10.0	2.57	27.6	
Carleton	Sloans	DS1			29-Sep-10	14.0	9.6	2.23	19.4	
Carleton	Sloans	DS1			29-Sep-10	15.0	9.3	2.[illegible]8	18.8	
Carleton	Sloans	DS1			29-Sep-10	16.0	8.9	2.63	22.5	
Carleton	Sloans	DS1			29-Sep-10	17.0	7.7	3.02	25.[illegible]	
Carleton	Sloans	DS2			29-Sep-10	0.0	18.8	9.16	97.6	
Carleton	Sloans	DS2			29-Sep-10	5.0	18.8	9.11	97.0	
Carleton	Sloans	DS2			29-Sep-10	7.0	17.6	8.47	90.[illegible]	
Carleton	Sloans	DS2			29-Sep-10	8.0	17.3	7.88	81.4	
Carleton	Sloans	DS2			29-Sep-10	9.0	13.5	2.53	24.[illegible]	
Carleton	Sloans	DS2			29-Sep-10	10.0	10.3	2.92	25.8	
Carleton	Sloans	DS2			29-Sep-10	11.0	9.1	3.15	27.[illegible]	
Carleton	Sloans	DS2			29-Sep-10	12.0	8.0	2.63	22.0	
Carleton	Sloans	DS2			29-Sep-10	13.0	7.8	2.55	21.2	
Carleton	Sloans	DS2			29-Sep-10	14.0	7.7	2.16	17.9	
Carleton	Sloans	DS2			29-Sep-10	15.0	7.7	2.22	18.4	
Carleton	Sloans	DS2			29-Sep-10	16.0	7.5	1.8[illegible]	15.0	
Carleton	Sloans	DS2			29-Sep-10	17.0	7.5	1.73	14.3	
Carleton	Sloans	DS1			29-Sep-10	0.0	22.3	7.65	87.4	
Carleton	Sloans	DS1			15-Aug-11	1.0	22.3	7.78	88.8	
Carleton	Sloans	DS1			15-Aug-11	2.0	22.3	7.72	88.2	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Skaana	DS1			15-Aug-11	3.0	22.3	7.68	87.7	
Carleton	Skaana	DS1			15-Aug-11	4.0	22.3	7.74	88.4	
Carleton	Skaana	DS1			15-Aug-11	5.0	22.3	7.64	87.7	
Carleton	Skaana	DS1			15-Aug-11	6.0	18.3	6.27	66.1	
Carleton	Skaana	DS1			15-Aug-11	7.0	13.4	5.60	53.1	
Carleton	Skaana	DS1			15-Aug-11	8.0	11.8	4.60	42.2	
Carleton	Skaana	DS1			15-Aug-11	9.0	10.8	4.42	39.6	
Carleton	Skaana	DS1			15-Aug-11	10.0	10.7	4.11	36.3	
Carleton	Skaana	DS1			15-Aug-11	11.0	9.7	3.97	34.6	
Carleton	Skaana	DS1			15-Aug-11	12.0	9.6	3.71	32.3	
Carleton	Skaana	DS1			15-Aug-11	13.0	9.4	3.57	30.9	
Carleton	Skaana	DS1			15-Aug-11	14.0	9.1	3.53	30.3	
Carleton	Skaana	DS1			15-Aug-11	15.0	9.0	4.02	34.5	
Carleton	Skaana	DS1			15-Aug-11	16.0	8.7	4.04	34.4	
Carleton	Skaana	DS1			15-Aug-11	0.5	14.8	10.80	106.0	
Carleton	Skaana	DS1	265112	4875159	6-May-13	1.0	14.3	10.30	103.0	
Carleton	Skaana	DS1			6-May-13	2.0	13.8	10.2	98.0	
Carleton	Skaana	DS1			6-May-13	3.0	13.7	10.40	10[illegible].0	
Carleton	Skaana	DS1			6-May-13	4.0	13.1	10.40	10[illegible].0	
Carleton	Skaana	DS1			6-May-13	5.0	9.6	11.30	100.0	
Carleton	Skaana	DS1			6-May-13	6.0	9.4	11.00	96.0	
Carleton	Skaana	DS1			6-May-13	7.0	9.2	10.90	95.0	
Carleton	Skaana	DS1			6-May-13	8.0	9.1	11.00	95.0	
Carleton	Skaana	DS1			6-May-13	9.0	9.0	11.00	95.0	
Carleton	Skaana	DS1			6-May-13	10.0	8.9	10.80	94.0	
Carleton	Skaana	DS1			6-May-13	15.0	8.9	10.60	94.0	Measured hurriedly from Van dam
Carleton	Skaana	DS1			6-May-13	20.0	8.5	10.80	97.0	Measured hurriedly from Van dam
Carleton	Skaana	DS1	265104	4875113	3-July-13	0.25	20.1	9.00	100.0	
Carleton	Skaana	DS1			3-July-13	1.0	20.0	8.90	98.0	
Carleton	Skaana	DS1			3-July-13	2.0	19.8	8.90	98.0	
Carleton	Skaana	DS1			3-July-13	3.0	19.8	8.90	97.0	
Carleton	Skaana	DS1			3-July-13	4.0	19.8	8.80	96.0	
Carleton	Skaana	DS1			3-July-13	5.0	17.7	8.10	85.0	
Carleton	Skaana	DS1			3-July-13	6.0	15.8	8.40	85.0	
Carleton	Skaana	DS1			3-July-13	7.0	13.3	8.40	80.0	
Carleton	Skaana	DS1			3-July-13	8.0	10.0	8.20	73.0	
Carleton	Skaana	DS1			3-July-13	9.0	9.4	8.30	72.0	
Carleton	Skaana	DS1			3-July-13	10.0	9.3	8.10	71.0	
Carleton	Skaana	DS1			3-July-13	14.0	9.6	8.70	77.0	Measured hurriedly from Van dam
Carleton	Skaana	DS1			3-July-13	18.0	8.9	7.60	66.0	Measured hurriedly from Van dam
Carleton	Skaana	DS1	265128	4875086	11-Aug-13	0.25	22.6	8.50	98.0	
Carleton	Skaana	DS1			11-Aug-13	1.0	22.6	8.50	98.0	
Carleton	Skaana	DS1			11-Aug-13	2.0	22.6	8.40	97.0	
Carleton	Skaana	DS1			11-Aug-13	3.0	22.6	8.40	97.0	
Carleton	Skaana	DS1			11-Aug-13	4.0	22.2	8.30	96.0	
Carleton	Skaana	DS1			11-Aug-13	5.0	21.5	7.70	87.0	
Carleton	Skaana	DS1			11-Aug-13	6.0	16.2	4.10	41.0	
Carleton	Skaana	DS1			11-Aug-13	7.0	13.2	4.00	38.0	
Carleton	Skaana	DS1			11-Aug-13	8.0	11.2	5.60	51.0	
Carleton	Skaana	DS1			11-Aug-13	9.0	10.3	5.50	49.0	
Carleton	Skaana	DS1			11-Aug-13	10.0	9.7	5.80	51.0	
Carleton	Skaana	DS1			11-Aug-13	14.0	9.9	6.10	54.0	
Carleton	Skaana	DS1			11-Aug-13	18.0	8.7	4.80	41.0	
Carleton	Skaana	DS3	264370	4875019	11-Aug-13					
Carleton	Skaana	DS1	265107	4875143	20-Oct-13	0.25	15.2	9.90	99.0	
Carleton	Skaana	DS1			20-Oct-13	1.0	15.2	9.70	97.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Sloans	DS1			20-Oct-13	2.0	15.2	9.70	94.0	
Carleton	Sloans	DS1			20-Oct-13	3.0	15.2	9.65	96.0	
Carleton	Sloans	DS1			20-Oct-13	4.0	15.2	9.60	96.0	
Carleton	Sloans	DS1			20-Oct-13	5.0	15.2	9.60	96.0	
Carleton	Sloans	DS1			20-Oct-13	6.0	15.2	9.60	95.0	
Carleton	Sloans	DS1			20-Oct-13	7.0	15.2	9.50	95.0	
Carleton	Sloans	DS1			20-Oct-13	8.0	15.2	9.50	94.0	
Carleton	Sloans	DS1			20-Oct-13	9.0	14.7	8.50	84.0	
Carleton	Sloans	DS1			20-Oct-13	10.0	11.2	2.00	18.0	
Carleton	Sloans	DS1			20-Oct-13	15.0	9.3	2.60	22.0	
Carleton	Sloans	DS1			20-Oct-13	20.0	8.4	1.20	11.0	
Carleton	Sloans	DS1	265127	4875106	11-May-14	0.25	13.1	12.00	114.1	
Carleton	Sloans	DS1			11-May-14	1.0	13.1	11.70	112.0	
Carleton	Sloans	DS1			11-May-14	2.0	13.1	11.60	110.0	
Carleton	Sloans	DS1			11-May-14	3.0	11.9	11.90	110.0	
Carleton	Sloans	DS1			11-May-14	4.0	11.7	11.50	107.0	
Carleton	Sloans	DS1			11-May-14	5.0	11.1	11.90	108.0	
Carleton	Sloans	DS1			11-May-14	7.0	10.0	11.60	105.0	
Carleton	Sloans	DS1			11-May-14	8.0	9.3	11.80	103.0	
Carleton	Sloans	DS1			11-May-14	9.0	9.2	11.80	103.0	
Carleton	Sloans	DS1			11-May-14	10.0	9.1	11.80	102.0	
Carleton	Sloans	DS1			11-May-14	11.0	9.0	11.80	102.0	
Carleton	Sloans	DS1			11-May-14	16.0	8.3	11.70	100.0	
Carleton	Sloans	DS1			11-May-14	20.0	7.3	10.90	91.0	
Carleton	Sloans	DS1	265082	4875194	24-Aug-14	0.25	22.2	8.90	102.00	
Carleton	Sloans	DS1			24-Aug-14	1.0	22.2	8.80	101.00	
Carleton	Sloans	DS1			24-Aug-14	2.0	22.1	8.90	101.0	
Carleton	Sloans	DS1			24-Aug-14	3.0	22.1	8.80	101.0	
Carleton	Sloans	DS1			24-Aug-14	4.0	22.1	8.80	101.0	
Carleton	Sloans	DS1			24-Aug-14	5.0	22.0	8.80	100.0	
Carleton	Sloans	DS1			24-Aug-14	6.0	21.7	8.43	94.0	
Carleton	Sloans	DS1			24-Aug-14	7.0	17.6	5.30	54.0	
Carleton	Sloans	DS1			24-Aug-14	8.0	12.7	5.10	48.0	
Carleton	Sloans	DS1			24-Aug-14	9.0	10.6	4.90	43.0	
Carleton	Sloans	DS1			24-Aug-14	10.0	9.9	4.90	43.0	
Carleton	Sloans	DS1			24-Aug-14	11.0	9.5	4.80	42.0	
Carleton	Sloans	DS1			24-Aug-14	15.0	8.3	3.00	26.0	
Carleton	Sloans	DS1			24-Aug-14	20.0	9.3	5.60	49.0	
Carleton	Sloans	DS1	265107	4875122	19-Oct-14	0.25	16.7	9.90	102.0	
Carleton	Sloans	DS1			19-Oct-14	1.0	16.7	9.90	102.0	
Carleton	Sloans	DS1			19-Oct-14	2.0	16.7	9.80	101.0	
Carleton	Sloans	DS1			19-Oct-14	3.0	16.7	9.70	100.0	
Carleton	Sloans	DS1			19-Oct-14	4.0	16.7	9.70	99.0	
Carleton	Sloans	DS1			19-Oct-14	5.0	16.4	9.60	96.0	
Carleton	Sloans	DS1			19-Oct-14	6.0	16.2	9.20	94.0	
Carleton	Sloans	DS1			19-Oct-14	7.0	15.9	8.90	90.0	
Carleton	Sloans	DS1			19-Oct-14	8.0	15.8	8.80	88.0	
Carleton	Sloans	DS1			19-Oct-14	9.0	15.3	8.10	81.0	
Carleton	Sloans	DS1			19-Oct-14	10.0	11.9	1.80	17.0	
Carleton	Sloans	DS1			19-Oct-14	11.0	10.1	1.30	12.0	
Carleton	Sloans	DS1			19-Oct-14	20.0	8.2	0.50	4.0	
Carleton	Sloans	DS1	265102	4875163	18-May-15	0.25	14.1			
Carleton	Sloans	DS1			18-May-15	1.0	14.0			
Carleton	Sloans	DS1			18-May-15	2.0	13.9	10.20	100.0	
Carleton	Sloans	DS1			18-May-15	3.0	13.5	10.50	103.0	
Carleton	Sloans	DS1			18-May-15	4.0	12.6	10.70	101.0	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Sloans	DS1			18-May-15	5.0	12.1	10.90	99.0	
Carleton	Sloans	DS1			18-May-15	6.0	11.0	11.30	102.0	
Carleton	Sloans	DS1			18-May-15	7.0	9.1	11.10	95.0	
Carleton	Sloans	DS1			18-May-15	8.0	7.4	11.20	94.0	
Carleton	Sloans	DS1			18-May-15	9.0	7.1	11.40	93.0	
Carleton	Sloans	DS1			18-May-15	10.0	6.8	11.60	93.0	
Carleton	Sloans	DS1			18-May-15	11.0	6.6	11.50	93.0	
Carleton	Sloans	DS1			18-May-15	20.0	6.4	12.30	101.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	0.3	23.9	8.38	98.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	1.0	23.9	8.30	99.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	2.0	23.9	8.20	98.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	3.0	23.9	8.30	98.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	4.0	23.6	8.20	97.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	5.0	22.9	8.10	95.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	6.0	21.3	7.50	85.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	7.0	18.9	6.50	65.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	8.0	17.6	6.40	61.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	9.0	10.0	6.30	56.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	10.0	8.1	6.90	58.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	11.0	7.6	7.00	58.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	15.0	7.8	8.30	70.0	
Carleton	Sloans	DS1	265151	4875183	16-Aug-15	20.0	7.1	6.80	57.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	0.3	14.3	9.90	94.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	1.0	14.3	9.80	94.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	2.0	14.4	9.70	95.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	3.0	14.4	9.70	95.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	4.0	14.4	9.70	95.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	5.0	14.4	9.70	95.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	6.0	14.4	9.70	95.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	7.0	14.3	9.80	96.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	8.0	14.3	9.60	94.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	9.0	13.8	6.50	64.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	10.0	9.4	3.30	28.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	11.0	8.3	3.50	30.0	
Carleton	Sloans	DS1	265099	4875099	18-Oct-15	18.0	7.4	5.50	45.0	
Carleton	Sloans	DS1	Not taken		1-May-16	0.25	10.0			Temperature taken by thermometer at lamp 0.4 degrees
Carleton	Sloans	S18	264831	4875348	22-Aug-16	0.25	24.3	8.50	102.0	Taken off Richard's dock at 11:10 overcast
Carleton	Sloans	DS1	265068	4875127	28-Aug-16	0.25	25.6			
Carleton	Sloans	DS1	265068	4875127	28-Aug-16	12.50	17.8			
Carleton	Sloans	DS1	265068	4875127	28-Aug-16	22.00	11.7			
Carleton	Sloans	DS1	Not taken		16-Oct-16	0.25	11.11			Light cloud and wind
Carleton	Sloans	DS1	Not taken		16-Oct-16	8.50	13.89			
Carleton	Sloans	DS1	Not taken		16-Oct-16	21.00	8.89			
Carleton	Sloans	DS1	Not taken		7-May-17	0.25	14.44			
Carleton	Sloans	DS1	Not taken		7-May-17	8.50	11.11			
Carleton	Sloans	DS1	Not taken		7-May-17	20.00	7.78			
Carleton	Sloans	DS1			21-Aug-17	0.25	27.8	6.43	76.8	
Carleton	Sloans	DS1			21-Aug-17	9.00	11.12	4.94	44.9	
Carleton	Sloans	DS1			21-Aug-17	21.00	6.5	4.7	48.9	
Carleton	Sloans	DS2			21-Aug-17	0.25	23	6.34	75.4	
Carleton	Sloans	DS2			21-Aug-17	9.50	8.91	4.44	38.6	
Carleton	Sloans	DS2			21-Aug-17	15.50	7.06	4.81	39.5	
Carleton	Sloans	DS1			21-Aug-17	0.25	21.56	6.22	70.2	
Carleton	Sloans	DS1			15-Oct-17	0.25	15.56			
Carleton	Sloans	DS1			15-Oct-17	9.70	14.44			
Carleton	Sloans	DS1			15-Oct-17	20.00	8.89			

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Vaughan	DS1			4-Aug-08	1.0	20.6	7.00	77.3	
Carleton	Vaughan	DS1			4-Aug-08	2.0	20.6	6.80	75.1	
Carleton	Vaughan	DS1			4-Aug-08	3.0	20.6	6.70	74.0	
Carleton	Vaughan	DS1			4-Aug-08	4.0	20.6	6.70	74.0	
Carleton	Vaughan	DS1			4-Aug-08	5.0	20.5	6.50	71.6	
Carleton	Vaughan	DS1			4-Aug-08	6.0	20.3	6.40	70.7	
Carleton	Vaughan	DS1			4-Aug-08	7.0	20.2	6.20	67.9	
Carleton	Vaughan	DS1			4-Aug-08	8.0	19.8	5.70	61.9	
Carleton	Vaughan	DS1			4-Aug-08	9.0	19.4	5.20	56.[illegible]	
Carleton	Vaughan	DS1			4-Aug-08	10.0	17.1	0.90	9.3	
Carleton	Vaughan	DS1			4-Aug-08	11.0	14.7	0.60	5.9	
Carleton	Vaughan	DS1			4-Aug-08	12.0	13.9	0.60	5.8	
Carleton	Vaughan	DS1			4-Aug-08	13.0	13.3	0.60	5.7	
Carleton	Vaughan	DS1			4-Aug-08	14.0	13.0	0.50	4.7	
Carleton	Vaughan	DS1			4-Aug-08	15.0	12.8	0.50	4.7	
Carleton	Vaughan	DS1			4-Aug-08	16.0	12.4	0.50	4.6	
Carleton	Vaughan	DS1			4-Aug-08	0.0	9.9	10.90	95.6	
Carleton	Vaughan	DS1			27-Oct-09	1.0	9.9	10.87	95.3	
Carleton	Vaughan	DS1			27-Oct-09	2.0	10.0	10.86	95.3	
Carleton	Vaughan	DS1			27-Oct-09	3.0	9.9	10.87	95.3	
Carleton	Vaughan	DS1			27-Oct-09	4.0	9.9	10.85	95.1	
Carleton	Vaughan	DS1			27-Oct-09	5.0	9.9	10.85	95.0	
Carleton	Vaughan	DS1			27-Oct-09	6.0	9.9	10.85	95.0	
Carleton	Vaughan	DS1			27-Oct-09	7.0	9.9	10.84	94.9	
Carleton	Vaughan	DS1			27-Oct-09	8.0	9.8	10.82	94.7	
Carleton	Vaughan	DS1			27-Oct-09	9.0	9.9	10.78	94.4	
Carleton	Vaughan	DS1			27-Oct-09	10.0	9.8	10.78	94.3	
Carleton	Vaughan	DS1			27-Oct-09	11.0	9.9	10.76	94.2	
Carleton	Vaughan	DS1			27-Oct-09	12.0	9.9	10.74	94.0	
Carleton	Vaughan	DS1			27-Oct-09	13.0	9.8	10.73	93.9	
Carleton	Vaughan	DS1			27-Oct-09	14.0	9.9	10.77	93.8	
Carleton	Vaughan	DS1			27-Oct-09	15.0	9.8	10.71	93.7	
Carleton	Vaughan	DS1			27-Oct-09	16.0	9.8	10.72	93.8	
Carleton	Vaughan	DS1			27-Oct-09	17.0	9.8	10.68	93.4	
Carleton	Vaughan	DS1			27-Oct-09	0.0	19.3	8.49	91.3	
Carleton	Vaughan	DS1			29-Sep-10	2.0	19.1	8.49	91.0	
Carleton	Vaughan	DS1			29-Sep-10	4.0	18.5	8.04	85.0	
Carleton	Vaughan	DS1			29-Sep-10	6.0	18.1	7.83	82.2	
Carleton	Vaughan	DS1			29-Sep-10	8.0	17.8	7.61	79.3	
Carleton	Vaughan	DS1			29-Sep-10	10.0	17.5	7.31	75.7	
Carleton	Vaughan	DS1			29-Sep-10	11.0	17.3	6.93	71.5	
Carleton	Vaughan	DS1			29-Sep-10	12.0	14.7	0.24	2.5	
Carleton	Vaughan	DS1			29-Sep-10	13.0	11.6	0.18	1.6	
Carleton	Vaughan	DS1			29-Sep-10	14.0	11.2	0.13	1.2	
Carleton	Vaughan	DS1			29-Sep-10	15.0	11.0	0.11	1.0	
Carleton	Vaughan	DS1			29-Sep-10	16.0	11.0	0.10	0.9	
Carleton	Vaughan	DS1			29-Sep-10	17.0	10.9	0.10	0.9	
Carleton	Vaughan	DS2			29-Sep-10	0.0	18.5	8.75	92.6	
Carleton	Vaughan	DS2			29-Sep-10	1.0	18.5	8.76	92.7	
Carleton	Vaughan	DS2			29-Sep-10	2.0	18.4	8.74	92.4	
Carleton	Vaughan	DS2			29-Sep-10	3.0	18.4	8.72	92.1	
Carleton	Vaughan	DS2			29-Sep-10	4.0	18.4	8.71	92.0	
Carleton	Vaughan	DS2			29-Sep-10	5.0	18.4	8.70	91.9	
Carleton	Vaughan	DS2			29-Sep-10	6.0	18.4	8.69	91.8	
Carleton	Vaughan	DS2			29-Sep-10	7.0	18.4	8.66	91.4	
Carleton	Vaughan	DS2			29-Sep-10	8.0	18.3	8.62	90.9	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Vaughan	DS7			29-Sep-10	9.0	18.2	8.53	89.8	
Carleton	Vaughan	DS7			29-Sep-10	10.0	18.3	8.52	89.5	
Carleton	Vaughan	DS1			29-Sep-10	0.0	21.9	7.57	80.5	
Carleton	Vaughan	DS1			16-Aug-11	1.0	21.8	7.67	79.8	
Carleton	Vaughan	DS1			16-Aug-11	2.0	21.5	6.57	75.8	
Carleton	Vaughan	DS1			16-Aug-11	3.0	21.5	6.63	76.6	
Carleton	Vaughan	DS1			16-Aug-11	4.0	21.4	6.67	76.8	
Carleton	Vaughan	DS1			16-Aug-11	5.0	21.3	6.55	73.3	
Carleton	Vaughan	DS1			16-Aug-11	6.0	21.1	6.06	67.6	
Carleton	Vaughan	DS1			16-Aug-11	7.0	18.7	0.22	2.3	
Carleton	Vaughan	DS1			16-Aug-11	8.0	15.4	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	9.0	13.5	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	10.0	12.6	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	11.0	12.1	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	12.0	11.7	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	13.0	11.5	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	14.0	11.4	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	15.0	11.4	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	16.0	11.3	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	17.0	11.3	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	18.0	11.3	0.00	0.0	
Carleton	Vaughan	DS1			16-Aug-11	0.0	13.28			
Carleton	Vaughan	DS1	262891	4847294	30-Apr-13	0.5	13.26			
Carleton	Vaughan	DS1			30-Apr-13	1.0	12.6			
Carleton	Vaughan	DS1			30-Apr-13	2.0	11.48			
Carleton	Vaughan	DS1			30-Apr-13	3.0	11.25			
Carleton	Vaughan	DS1			30-Apr-13	4.0	10.93			
Carleton	Vaughan	DS1			30-Apr-13	5.0	10.78			
Carleton	Vaughan	DS1			30-Apr-13	6.0	10.53			
Carleton	Vaughan	DS1			30-Apr-13	7.0	10.21			
Carleton	Vaughan	DS1			30-Apr-13	8.0	9.80			
Carleton	Vaughan	DS1	261402	4847599	4-Jul-13	0.3	21.30	9.5	107	
Carleton	Vaughan	DS1			4-Jul-13	1.0	20.30	9.6	106	
Carleton	Vaughan	DS1			4-Jul-13	2.0	20.00	9.4	103	
Carleton	Vaughan	DS1			4-Jul-13	3.0	19.90	9.2	101	
Carleton	Vaughan	DS1			4-Jul-13	4.0	19.90	9.1	100	
Carleton	Vaughan	DS1			4-Jul-13	5.0	19.80	9.0	99	
Carleton	Vaughan	DS1			4-Jul-13	6.0	19.30	8.7	94	
Carleton	Vaughan	DS1			4-Jul-13	7.0	18.80	8.2	88	
Carleton	Vaughan	DS1			4-Jul-13	8.0	18.50	7	83	
Carleton	Vaughan	DS1			4-Jul-13	9.0	18.10	7.0	75	
Carleton	Vaughan	DS1			4-Jul-13	10.0	17.3	5.9	62	
Carleton	Vaughan	DS1			4-Jul-13	12.0	17.3	4.4	46	
Carleton	Vaughan	DS1	264371	4847427	13-Aug-13	0.25	23.30	8	96	
Carleton	Vaughan	DS1			13-Aug-13	1.0	23.30	8	96	
Carleton	Vaughan	DS1			13-Aug-13	2.0	23.30	8	96	
Carleton	Vaughan	DS1			13-Aug-13	3.0	23.30	8	93	
Carleton	Vaughan	DS1			13-Aug-13	4.0	22.80	7.7	89	
Carleton	Vaughan	DS1			13-Aug-13	5.0	22.40	7.5	86	
Carleton	Vaughan	DS1			13-Aug-13	6.0	22.10	7.4	85	
Carleton	Vaughan	DS1			13-Aug-13	7.0	21.80	7	79	
Carleton	Vaughan	DS1			13-Aug-13	8.0	20.20	2.3	25	
Carleton	Vaughan	DS1			13-Aug-13	9.0	17.70	0.1	1	
Carleton	Vaughan	DS1			13-Aug-13	10.0	16.30	0.1	1	
Carleton	Vaughan	DS1			13-Aug-13	11.0	16.10	0.1	1	
Carleton	Vaughan	DS1			13-Aug-13	14.0	15.60	0.4	4	Taken from Van Dam report

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Vaughan	DS1	264396	4867573	29-Oct-13	0.3	12.20	9.7	90	
Carleton	Vaughan	DS1			29-Oct-13	1.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	2.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	3.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	4.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	5.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	6.0	12.20	9.6	90	
Carleton	Vaughan	DS1			29-Oct-13	7.0	12.20	9.7	90	
Carleton	Vaughan	DS1			29-Oct-13	8.0	12.20	9.7	90	
Carleton	Vaughan	DS1			29-Oct-13	9.0	12.10	9.7	91	
Carleton	Vaughan	DS1			29-Oct-13	10.0	12.10	9.7	90	
Carleton	Vaughan	DS1			29-Oct-13	11.0	12.10	9.7	90	
Carleton	Vaughan	DS1	264721	4867488	7-May-14	0.3	11.40	11	101	
Carleton	Vaughan	DS1			7-May-14	1.0	11.50	11	101	
Carleton	Vaughan	DS1			7-May-14	2.0	11.50	11	101	
Carleton	Vaughan	DS1			7-May-14	3.0	11.50	10.9	100	
Carleton	Vaughan	DS1			7-May-14	4.0	11.20	11.1	101	
Carleton	Vaughan	DS1			7-May-14	5.0	10.90	11.1	101	
Carleton	Vaughan	DS1			7-May-14	6.0	10.50	11	99	
Carleton	Vaughan	DS1			7-May-14	7.0	10.30	11	98	
Carleton	Vaughan	DS1			7-May-14	8.0	10.20	11	98	
Carleton	Vaughan	DS1			7-May-14	9.0	10.10	10.9	97	
Carleton	Vaughan	DS1			7-May-14	10.0	10.10	10.9	97	
Carleton	Vaughan	DS1			7-May-14	11.0	10.10	10.9	97	
Carleton	Vaughan	DS1	264433	4867648	18-Aug-14	0.3	22.60	8.3	96	
Carleton	Vaughan	DS1			18-Aug-14	1.0	22.60	8.3	96	
Carleton	Vaughan	DS1			18-Aug-14	2.0	22.40	8.1	94	
Carleton	Vaughan	DS1			18-Aug-14	3.0	22.40	8	93	
Carleton	Vaughan	DS1			18-Aug-14	4.0	22.40	7.8	90	
Carleton	Vaughan	DS1			18-Aug-14	5.0	22.30	7.8	90	
Carleton	Vaughan	DS1			18-Aug-14	6.0	22.20	7.6	87	
Carleton	Vaughan	DS1			18-Aug-14	7.0	21.90	7.7	86	
Carleton	Vaughan	DS1			18-Aug-14	8.0	21.40	6.2	70	
Carleton	Vaughan	DS1			18-Aug-14	9.0	19.00	0.1	1	
Carleton	Vaughan	DS1			18-Aug-14	10.0	17.50	0.1	1	
Carleton	Vaughan	DS1			18-Aug-14	11.0	15.40	0.1	1	
Carleton	Vaughan	DS1	264384	4867649	21-Oct-14	0.75	15.30			
Carleton	Vaughan	DS1			21-Oct-14	1.0	15.30			
Carleton	Vaughan	DS1			21-Oct-14	2.0	15.30			
Carleton	Vaughan	DS1			21-Oct-14	3.0	15.30			
Carleton	Vaughan	DS1			21-Oct-14	4.0	15.30			
Carleton	Vaughan	DS1			21-Oct-14	5.0	15.20			
Carleton	Vaughan	DS1			21-Oct-14	6.0	15.20			
Carleton	Vaughan	DS1			21-Oct-14	7.0	15.00			
Carleton	Vaughan	DS1			21-Oct-14	8.0	14.80			
Carleton	Vaughan	DS1			21-Oct-14	9.0	14.80			
Carleton	Vaughan	DS1			21-Oct-14	10.0	14.70			
Carleton	Vaughan	DS1			21-Oct-14	11.0	14.70			
Carleton	Vaughan	DS1			21-Oct-14	16.0	10.30	0.5	5	
Carleton	Vaughan	DS1	Missed sample to other		12-May-15	0.3	11.60	Meter not working		
Carleton	Vaughan	DS1			12-May-15	1.0	11.60			
Carleton	Vaughan	DS1			12-May-15	2.0	11.60			
Carleton	Vaughan	DS1			12-May-15	3.0	11.50			
Carleton	Vaughan	DS1			12-May-15	4.0	11.40			
Carleton	Vaughan	DS1			12-May-15	5.0	11.70			
Carleton	Vaughan	DS1			12-May-15	6.0	10.90			

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Vaughan	DS1			12-May-15	7.0	10.70			
Carleton	Vaughan	DS1			12-May-15	8.0	10.60			
Carleton	Vaughan	DS1			12-May-15	9.0	10.50			
Carleton	Vaughan	DS1			12-May-15	10.0	10.40			
Carleton	Vaughan	DS1			12-May-15	11.0	10.40			
Carleton	Vaughan	DS1			12-May-15	15.0	10.40			
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	0.3	25.90	8.3	103	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	1.0	25.90	8.3	102	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	2.0	25.90	8.3	102	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	3.0	24.40	7.4	88	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	3.6	23.80	6.3	75	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	4.0	23.50	6	71	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	5.0	22.40	3.6	42	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	6.0	21.50	0.4	4	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	7.0	18.90	0.1	1	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	8.0	15.90	0.1	1	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	9.0	14.70	0.1	1	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	10.0	14.00	0.1	1	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	11.0	13.50	0.1	1	
Carleton	Vaughan	DS1	264393	4867643	19-Aug-15	16.0	13.80	0.3	3	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	0.25	13.50	9.1	87	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	1.0	13.50	9.1	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	2.0	13.50	9.2	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	3.0	13.50	9.2	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	4.0	13.50	9.2	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	5.0	13.50	9.2	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	6.0	13.50	9.2	88	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	7.0	13.30	9.3	89	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	8.0	13.20	9.4	90	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	9.0	13.10	9.4	89	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	10.0	13.10	9.4	89	
Carleton	Vaughan	DS1	264386	4867599	19-Oct-15	11.0	13.10	9.3	89	
Carleton	Vaughan	DS1	Not taken		2-May-16	0.25	12.00			Temperature taken by thermometer on dip temp = 9 degree
Carleton	Vaughan	MC	262456	4867704	22-Aug-16	0.25	24.40	8.5	101	Tested at MC cove at 11:30, overcast
Carleton	Vaughan	DS1	Not taken		26-Aug-16	0.25	22.20			
Carleton	Vaughan	DS1	Not taken		26-Aug-16	3.60	23.30			
Carleton	Vaughan	DS1	Not taken		26-Aug-16	13.50	14.40			
Carleton	Vaughan	DS1	Not taken		16-Oct-16	0.25	13.33			Clear, light wind, 10:30 A.M.
Carleton	Vaughan	DS1	Not taken		16-Oct-16	4.80	14.44			
Carleton	Vaughan	DS1	Not taken		16-Oct-16	18.00	13.89			
Carleton	Vaughan	DS1	Not taken		10-May-17	0.25	12.78			
Carleton	Vaughan	DS1	Not taken		10-May-17	3.10	13.33			
Carleton	Vaughan	DS1	Not taken		10-May-17	18.00	12.78			
	Vaughan	VL-DS1X	264360.84	4867660.17	24-Aug-17	0.25	22.01	6.41	73.3	Strong turbner smell from water here
	Vaughan	VL-DS1X	264360.84	4867660.17	24-Aug-17	3.00	21.98	5.27	67.8	
	Vaughan	VL-DS1X	264360.84	4867660.17	24-Aug-17	10.00	16.85	1.93	17.3	
	Vaughan	VL-DS2	262445.86	4867660.17	24-Aug-17	0.25	21.64	6.65	75.5	
	Vaughan	VL-DS2	262445.86	4867660.17	24-Aug-17	1.75	21.61	6.68	75.8	
	Vaughan	VL-DS2	262445.86	4867660.17	24-Aug-17	8.00	21.52	6.84	77.4	
	Vaughan	VL-RN1	264628.35	4867980.05	24-Aug-17	0.25	20.44	6.98	77.4	
	Vaughan	VL-RN1	264628.35	4867980.05	24-Aug-17	7.33	20.43	6.99	77.6	
	Vaughan	VL-RV2	263327.79	4864874.48	24-Aug-17	0.25	21.66	6.67	73.5	
	Vaughan	VL-RV2	263327.79	4864874.48	24-Aug-17	1.30	21.65	6.69	73.7	
	Vaughan	VL-RV2	263327.79	4864874.48	24-Aug-17	3.00	21.67	6.54	74.3	
	Vaughan	VL-OL1	261212	4843513	24-Aug-17	0.25	21.71	6.93	78.6	
Carleton	Vaughan	DS1	Not taken		19-Oct-17	0.25	13.33			

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
Carleton	Vaughan	DS1	Not taken		19-Oct-17	3.6	15.56			
Carleton	Vaughan	DS1	Not taken		19-Oct-17	16.0	15.56			
	Reservoirhouse	DS1	275493	4881579	23-Oct-13	0.3	12.90	9.9	94	
	Reservoirhouse	DS1			23-Oct-13	1.0	12.90	9.5	90	
	Reservoirhouse	DS1			23-Oct-13	7.0	12.90	9.4	89	
	Reservoirhouse	DS1			23-Oct-13	3.0	12.80	9.5	89	
	Reservoirhouse	DS1	275463	4881577	16-Aug-13	0.3	22.90	7.6	89	
	Reservoirhouse	DS1			16-Aug-13	1.0	22.80	7.6	88	
	Reservoirhouse	DS1			16-Aug-13	1.5	22.80	7.5	87	
	Reservoirhouse	DS1			16-Aug-13	2.0	22.50	7.2	83	
	Reservoirhouse	DS1			16-Aug-13	3.0	21.40	6	68	
	Reservoirhouse	DS1			16-Aug-13	4.0	20.00	4.2	49	
	Reservoirhouse	DS1			16-Aug-13	5.0	18.20	1.7	18	
	Reservoirhouse	DS1	275484	4881584	3-Jul-13	0.3	18.50	7.9	85	
	Reservoirhouse	DS1			3-Jul-13	1.0	18.50	7.9	84	
	Reservoirhouse	DS1			3-Jul-13	2.0	18.40	7.6	81	
	Reservoirhouse	DS1			3-Jul-13	3.0	17.50	6.9	72	
	Reservoirhouse	DS1	275590	4881637	30-Apr-13	0.5	12.45			
	Reservoirhouse	DS1			30-Apr-13	1.0	12.38			
	Reservoirhouse	DS1			30-Apr-13	2.0	12.12			
	Reservoirhouse	DS1			30-Apr-13	3.0	11.84			
	Pearl	DS-1	274182	4880950	14-May-15	0.3	13.40			
	Pearl	DS-1			14-May-15	1.0	13.50			
	Pearl	DS-1			14-May-15	2.0	13.40			
	Pearl	DS-1			14-May-15	3.0	13.40			
	Pearl	DS-1			14-May-15	4.0	13.40			
	Pearl	DS-1			14-May-15	5.0	13.40			
	Pearl	DS-1			14-May-15	6.0	13.30			
	Pearl	DS-1			14-May-15	7.0	12.20			
	Pearl	DS-1			14-May-15	8.0	8.40			
	Pearl	DS-1			14-May-15	9.0	7.40			
	Pearl	DS-1			14-May-15	10.0	7.20			
	Pearl	DS-1	274124	4881026	28-Oct-14	0.3	11.60	9.6	88	
	Pearl	DS-1			28-Oct-14	1.0	11.70	9.5	87	
	Pearl	DS-1			28-Oct-14	2.0	11.60	9.5	87	
	Pearl	DS-1			28-Oct-14	3.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	4.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	5.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	6.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	7.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	8.0	11.60	9.4	87	
	Pearl	DS-1			28-Oct-14	9.0	11.60	9.4	86	
	Pearl	DS-1	274092	4880996	19-Aug-14	0.3	21.80	7.1	81	
	Pearl	DS-1			19-Aug-14	1.0	21.80	7.1	81	
	Pearl	DS-1			19-Aug-14	2.0	21.80	7.1	81	
	Pearl	DS-1			19-Aug-14	3.0	21.80	7.1	81	
	Pearl	DS-1			19-Aug-14	4.0	21.80	7	80	
	Pearl	DS-1			19-Aug-14	5.0	21.80	7	80	
	Pearl	DS-1			19-Aug-14	6.0	21.80	6.9	78	
	Pearl	DS-1			19-Aug-14	7.0	21.50	6.1	70	
	Pearl	DS-1			19-Aug-14	8.0	19.40	0.4	4	
	Pearl	DS-1			19-Aug-14	9.0	17.40	0.1	1	
	Pearl	DS-1			19-Aug-14	10.0	15.90	0.1	1	
	Pearl	DS-1	274097	4881024	8-May-14	0.3	12.00	10.5	97	
	Pearl	DS-1			8-May-14	1.0	12.00	10.4	97	
	Pearl	DS-1			8-May-14	2.0	12.00	10.4	96	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Pearl	DS-1			8-May-14	3.0	12.00	10.3	96	
	Pearl	DS-1			8-May-14	4.0	12.00	10.3	96	
	Pearl	DS-1			8-May-14	5.0	11.60	10.3	95	
	Pearl	DS-1			8-May-14	6.0	11.70	10.3	94	
	Pearl	DS-1			8-May-14	7.0	11.00	10.2	93	
	Pearl	DS-1			8-May-14	8.0	10.80	10.2	92	
	Pearl	DS-1			8-May-14	9.0	10.60	10.2	91	
	Pearl	DS-1			8-May-14	10.0	10.40	10.1	90	
	Wilsons	DS-1	269250	4867173	14-May-15	0.3	13.80			
	Wilsons	DS-1			14-May-15	1.0	13.80			
	Wilsons	DS-1			14-May-15	2.0	13.70			
	Wilsons	DS-1			14-May-15	3.0	13.70			
	Wilsons	DS-1			14-May-15	4.0	13.70			
	Wilsons	DS-1			14-May-15	5.0	13.70			
	Wilsons	DS-1			14-May-15	6.0	13.70			
	Wilsons	DS-1			14-May-15	7.0	13.60			
	Wilsons	DS-1			14-May-15	8.0	13.60			
	Wilsons	DS-1			14-May-15	9.0	13.60			
	Wilsons	DS-1			14-May-15	10.0	13.50			
	Wilsons	DS-1	269240	4867173	21-Oct-14	0.3	14.70		Probe unreliable	
	Wilsons	DS-1			21-Oct-14	1.0	14.70			
	Wilsons	DS-1			21-Oct-14	2.0	14.70			
	Wilsons	DS-1			21-Oct-14	3.0	14.70			
	Wilsons	DS-1			21-Oct-14	4.0	14.70			
	Wilsons	DS-1			21-Oct-14	5.0	14.70			
	Wilsons	DS-1			21-Oct-14	6.0	14.70			
	Wilsons	DS-1			21-Oct-14	7.0	14.70			
	Wilsons	DS-1			21-Oct-14	8.0	14.70			
	Wilsons	DS-1			21-Oct-14	9.0	14.70			
	Wilsons	DS-1			21-Oct-14	10.0	14.60			
	Wilsons	DS-1			21-Oct-14	11.0	14.60			
	Wilsons	DS-1			20-Aug-14	0.3	22.50	7.5	87	
	Wilsons	DS-1	269234	4867154	20-Aug-14	1.0	22.40	7.5	86	
	Wilsons	DS-1			20-Aug-14	2.0	22.30	7.4	86	
	Wilsons	DS-1			20-Aug-14	3.0	22.30	7.4	86	
	Wilsons	DS-1			20-Aug-14	4.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	5.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	6.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	7.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	8.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	9.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	10.0	22.30	7.4	85	
	Wilsons	DS-1			20-Aug-14	11.0	22.30	7.3	84	
	Wilsons	DS-1	269235	4867160	8-May-14	0.3	13.40	11.7	107	
	Wilsons	DS-1			8-May-14	1.0	12.90	10.8	102	
	Wilsons	DS-1			8-May-14	2.0	12.80	10.6	100	
	Wilsons	DS-1			8-May-14	3.0	12.80	10.5	99	
	Wilsons	DS-1			8-May-14	4.0	12.80	10.4	98	
	Wilsons	DS-1			8-May-14	5.0	12.80	10.4	98	
	Wilsons	DS-1			8-May-14	6.0	12.80	10.4	98	
	Wilsons	DS-1			8-May-14	7.0	12.80	10.3	97	
	Wilsons	DS-1			8-May-14	8.0	12.80	10.3	97	
	Wilsons	DS-1			8-May-14	9.0	12.80	10.3	97	
	Wilsons	DS-1			8-May-14	10.0	12.80	10.3	97	
		DS-1			8-May-14	11.0	12.80	10.3	97	
	Kagershook	DS-1			18-Oct-17	0.3	15.00			

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Kegetnook	DS-1			18-Oct-17	7.5	14.44			
	Kegetnook	DS-1			18-Oct-17	7.5	14.44			
	Kegetnook	DS-1	Not taken		28-Aug-17					
	Kegetnook	DS-1	Not taken		28-Aug-17		21.11			
	Kegetnook	DS-1	Not taken		28-Aug-17					
	Kegetnook	DS-1	Not taken		10-May-17	0.3	14.44			
	Kegetnook	DS-1	Not taken		10-May-17	4.0	13.33			
	Kegetnook	DS-1	Not taken		10-May-17	11.0	12.78			
	Kegetnook	DS-1	Not taken		16-Oct-16	0.3	15.00			Clear, light wind 11:00 A.M.
	Kegetnook	DS-1	Not taken		16-Oct-16	3.6	14.44			
	Kegetnook	DS-1	Not taken		16-Oct-16	7.0	13.89			
	Kegetnook	DS-1	276843	4869777	21-Aug-16	0.3	23.90			
	Kegetnook	DS-1	276843	4869777	21-Aug-16	3.6	22.80			
	Kegetnook	DS-1	Not taken		21-Aug-16	8.0	20.00			
	Kegetnook	DS-1	276843	4869777	3-May-16	0.3	12.50	10.6	100	
	Kegetnook	DS-1	276843	4869777	3-May-16	1.0	12.50	10.7	100	
	Kegetnook	DS-1	276843	4869777	3-May-16	2.0	12.50	10.6	100	
	Kegetnook	DS-1	276843	4869777	3-May-16	3.0	12.20	10.8	101	
	Kegetnook	DS-1	276843	4869777	3-May-16	4.0	11.80	10.7	98	
	Kegetnook	DS-1	276843	4869777	3-May-16	5.0	11.20	10.6	97	
	Kegetnook	DS-1	276843	4869777	3-May-16	6.0	11.20	10.8	99	
	Kegetnook	DS-1	276843	4869777	3-May-16	7.0	10.70	10.6	95	
	Kegetnook	DS-1	276843	4869777	3-May-16	8.0	10.60	10.2	92	
	Kegetnook	DS-1	276843	4869777	3-May-16	9.0	9.70	10	88	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	0.3	12.50	9.3	87	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	1.0	12.50	9.4	88	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	2.0	12.50	9.4	89	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	3.0	12.50	9.4	89	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	4.0	12.50	9.3	87	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	5.0	12.50	9.3	87	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	6.0	12.50	9.3	87	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	7.0	12.50	9.3	87	
	Kegetnook	DS-1	276794	4869797	20-Oct-15	8.0	12.50	9.3	87	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	0.3	26.60	7.8	97	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	1.0	26.60	7.8	97	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	2.0	26.30	7.8	96	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	3.0	24.30	7.7	86	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	4.0	20.30	3.3	36	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	4.3	19.20	2	21	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	5.0	16.10	0.4	2	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	6.0	13.50	0.4	4	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	7.0	11.20	1.8	16	
	Kegetnook	DS-1	276812	4869798	26-Aug-15	8.0	9.50	1.2	11	
	Kegetnook	DS-1	276775	4869774	12-May-15	0.3	13.60	Meter not working		
	Kegetnook	DS-1			12-May-15	1.0	13.60			
	Kegetnook	DS-1			12-May-15	2.0	13.60			
	Kegetnook	DS-1			12-May-15	3.0	13.20			
	Kegetnook	DS-1			12-May-15	4.0	10.80			
	Kegetnook	DS-1			12-May-15	5.0	8.10			
	Kegetnook	DS-1			12-May-15	6.0	7.60			
	Kegetnook	DS-1			12-May-15	7.0	7.30			
	Kegetnook	DS-1			12-May-15	8.0	7.20			
	Kegetnook	DS-1	276847	4869730	20-Oct-14	0.3	15.70	9	90	
	Kegetnook	DS-1			20-Oct-14	1.0	15.70	8.9	89	
	Kegetnook	DS-1			20-Oct-14	2.0	15.70	8.9	89	
	Kegetnook	DS-1			20-Oct-14	3.0	15.70	8.8	88	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Kenjeshook	DS-1			20-Oct-14	4.0	15.70	8.8	88	
	Kenjeshook	DS-1			20-Oct-14	5.0	15.70	8.8	88	
	Kenjeshook	DS-1			20-Oct-14	6.0	15.70	8.8	88	
	Kenjeshook	DS-1			20-Oct-14	7.0	15.70	8.8	88	
	Kenjeshook	DS-1			20-Oct-14	8.0	15.60	8.8	88	
	Kenjeshook	DS-1	276207	4869829	21-Aug-14	0.3	22.90	8.9	103	
	Kenjeshook	DS-1			21-Aug-14	1.0	22.70	8.9	103	
	Kenjeshook	DS-1			21-Aug-14	2.0	22.50	8.8	102	
	Kenjeshook	DS-1			21-Aug-14	3.0	22.10	8.5	98	
	Kenjeshook	DS-1			21-Aug-14	4.0	21.90	8	92	
	Kenjeshook	DS-1			21-Aug-14	5.0	20.40	3.1	34	
	Kenjeshook	DS-1			21-Aug-14	6.0	17.40	0.1	1	
	Kenjeshook	DS-1			21-Aug-14	7.0	14.30	0.8	8	
	Kenjeshook	DS-1			21-Aug-14	8.0	12.20	0.1	1	
	Kenjeshook	DS-1			21-Aug-14	9.0	11.00	0.1	1	
	Kenjeshook	DS-1	276839	4869779	14-May-14	0.3	14.80	10.5	104	
	Kenjeshook	DS-1			14-May-14	1.0	14.50	10.5	103	
	Kenjeshook	DS-1			14-May-14	2.0	14.40	10.5	103	
	Kenjeshook	DS-1			14-May-14	3.0	14.10	10.5	102	
	Kenjeshook	DS-1			14-May-14	4.0	13.00	10.5	100	
	Kenjeshook	DS-1			14-May-14	4.2	12.90	10.5	99	
	Kenjeshook	DS-1			14-May-14	5.0	12.70	10.4	97	
	Kenjeshook	DS-1			14-May-14	6.0	11.60	10.3	94	
	Kenjeshook	DS-1			14-May-14	7.0	11.70	10	91	
	Kenjeshook	DS-1			14-May-14	8.0	10.60	9.9	89	
	Kenjeshook	DS-1			14-May-14	9.0	10.00	9.9	88	
	Kenjeshook	DS-1			12-May-14	0.3	13.60	Meter not working		
	Kenjeshook	DS-1			12-May-14	1.0	13.60			
	Kenjeshook	DS-1			12-May-14	2.0	13.60			
	Kenjeshook	DS-1			12-May-14	3.0	13.20			
	Kenjeshook	DS-1			12-May-14	4.0	10.80			
	Kenjeshook	DS-1			12-May-14	5.0	8.10			
	Kenjeshook	DS-1			12-May-14	6.0	7.60			
	Kenjeshook	DS-1			12-May-14	7.0	7.30			
	Kenjeshook	DS-1			12-May-14	8.0	7.20			
	Gillian	DS1	275539	4849103	1-May-13	0.5	15.10			
	Gillian	DS1			1-May-13	1.0	14.81			
	Gillian	DS1			1-May-13	2.0	13.35			
	Gillian	DS1			1-May-13	3.0	12.31			
	Gillian	DS1	275547	4869125	6-Jun-13	0.3	23.70	8.6	101	
	Gillian	DS1			6-Jun-13	1.0	22.40	7.8	90	
	Gillian	DS1			6-Jun-13	2.0	21.30	7.7	87	
	Gillian	DS1			6-Jun-13	3.0	21.00	7.6	86	
	Gillian	DS2	275548	4868974	15-Aug-13	0.3	21.40	7	79	
	Gillian	DS2			15-Aug-13	1.0	21.30	6.7	76	
	Gillian	DS2			15-Aug-13	2.0	21.30	6.6	74	
	Gillian	DS2			15-Aug-13	3.0	21.20	6.5	73	
	Gillian	DS1	275575	4849138	24-Oct-13	0.3	12.90	9.6	91	
	Gillian	DS1			24-Oct-13	1.0	12.90	9.4	89	
	Gillian	DS1			24-Oct-13	2.0	12.80	9.3	88	
	Gillian	DS1			24-Oct-13	3.0	12.80	9.3	88	
	Gillian	DS1	275532	4849116	14-May-14	0.3	15.60	10.7	108	
	Gillian	DS1			14-May-14	1.0	14.80	10.4	103	
	Gillian	DS1			14-May-14	2.0	14.40	10.3	101	
	Gillian	DS1			14-May-14	3.0	14.20	10.1	99	
	Gillian	DS1	275501	4849145	21-Aug-14	0.3	24.10	8.4	100	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Gibson	DS1			21-Aug-14	1.0	23.50	8.2	96	
	Gibson	DS1			21-Aug-14	1.3	23.10	7.8	91	
	Gibson	DS1			21-Aug-14	2.0	22.00	7.4	85	
	Gibson	DS1			21-Aug-14	2.5	22.00	7.4	85	
	Gibson	DS3	273706	4868930	20-Oct-14	0.3	14.70	9	88	
	Gibson	DS3			20-Oct-14	1.0	14.70	8.9	88	
	Gibson	DS3			20-Oct-14	2.0	14.70	8.9	87	
	Gibson	DS1	273536	4869117	12-May-15	0.3	15.70	Meter not working		
	Gibson	DS1			12-May-15	1.0	15.70			
	Gibson	DS1			12-May-15	2.0	13.60			
	Quinan River	DS1	273745	4866590	1-May-13	0.5	14.54			
	Quinan River	DS1			1-May-13	1.0	14.57			
	Quinan River	DS1	273248	4866598	10-Jul-13	0.5	21.90	6.4	73	
	Quinan River	DS1			10-Jul-13	1.0	21.90	6.3	72	
	Quinan River	DS1			10-Jul-13	1.5	21.90	6.3	72	
	Quinan River	DS1	273763	4866602	15-Aug-13	0.3	20.90	7.2	82	
	Quinan River	DS1			15-Aug-13	1.0	20.90	7.2	80	
	Quinan River	DS1			15-Aug-13	2.0	20.90	7.1	79	
	Quinan River	DS1	273246	4866615	24-Oct-13	0.5	12.50	9.8	87	
	Quinan River	DS1			24-Oct-13	1.0	12.50	9.7	91	
	Quinan River	DS1			24-Oct-13	1.5	12.50	9.6	91	
	Raynards	DS1	265591	4870736	11-May-14	0.3	12.60	10.9	102	
	Raynards	DS1			11-May-14	1.0	12.60	10.8	102	
	Raynards	DS1			11-May-14	2.0	12.60	10.7	101	
	Raynards	DS1			11-May-14	2.8	12.60	10.7	100	
	Raynards	DS1			11-May-14	3.0	12.60	10.7	100	
	Raynards	DS1			11-May-14	4.0	12.60	10.7	100	
	Raynards	DS1			11-May-14	5.0	12.50	10.7	100	
	Raynards	DS1			11-May-14	6.0	12.30	10.8	101	
	Raynards	DS1			11-May-14	7.0	12.00	10.7	100	
	Raynards	DS1			11-May-14	8.0	11.90	10.7	99	
	Raynards	DS1			11-May-14	9.0	11.50	10.6	98	
	Raynards	DS1			11-May-14	10.0	11.20	10.4	97	
	Raynards	DS1			11-May-14	11.0	11.10	10.6	96	
	Raynards	DS1	265598	4870723	26-Aug-14	0.3	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	1.0	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	2.0	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	2.5	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	3.0	21.70	8	97	
	Raynards	DS1			26-Aug-14	4.0	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	5.0	21.70	8.1	97	
	Raynards	DS1			26-Aug-14	6.0	21.70	8	97	
	Raynards	DS1			26-Aug-14	7.0	21.70	8	97	
	Raynards	DS1			26-Aug-14	8.0	21.60	7.9	96	
	Raynards	DS1			26-Aug-14	9.0	21.40	7.7	87	
	Raynards	DS1			26-Aug-14	10.0	21.40	7.6	85	
	Raynards	DS1			26-Aug-14	11.0	20.30	0.7	8	
	Raynards	DS1	265414	4870831	19-Oct-14	0.3	16.50	10	102	
	Raynards	DS1			19-Oct-14	1.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	2.0	16.50	9.1	93	
	Raynards	DS1			19-Oct-14	3.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	4.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	5.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	6.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	7.0	16.50	9	97	
	Raynards	DS1			19-Oct-14	8.0	16.45	8.9	90	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Raymond	DS1			19-Oct-14	9.0	14.40	8.6	88	
	Raymond	DS1			19-Oct-14	10.0	14.30	8.6	88	
	Raymond	DS1	265459	4870737	18-May-15	0.3	13.70	10.8	102	
	Raymond	DS1			18-May-15	1.0	13.30	10.7	102	
	Raymond	DS1			18-May-15	2.0	13.30	10.4	100	
	Raymond	DS1			18-May-15	3.0	13.20	10.6	101	
	Raymond	DS1			18-May-15	4.0	13.20	10.5	100	
	Raymond	DS1			18-May-15	5.0	31.20	10.6	101	
	Raymond	DS1			18-May-15	6.0	13.20	10.3	98	
	Raymond	DS1			18-May-15	7.0	13.20	10	95	
	Raymond	DS1	265646	4870989	19-Aug-15	0.3	24.50	8.3	99	
	Raymond	DS1	265646	4870989	19-Aug-15	1.0	24.50	8.3	99	
	Raymond	DS1	265646	4870989	19-Aug-15	2.0	24.50	8.2	98	
	Raymond	DS1	265646	4870989	19-Aug-15	3.0	24.40	8.2	98	
	Raymond	DS1	265646	4870989	19-Aug-15	3.7	23.30	4.4	73	
	Raymond	DS1	265646	4870989	19-Aug-15	4.0	22.90	6	70	
	Raymond	DS1	265646	4870989	19-Aug-15	5.0	22.10	5.7	63	
	Raymond	DS1	265646	4870989	19-Aug-15	6.0	21.80	4.8	55	
	Raymond	DS1	265646	4870989	19-Aug-15	7.0	21.40	3.5	40	
	Raymond	DS1	265646	4870989	19-Aug-15	8.0	19.30	0.1	1	
	Raymond	DS1	265646	4870989	19-Aug-15	9.0	18.00	0.1	1	
	Raymond	DS1	265278	4870714	19-Oct-15	0.3	13.50	9.2	89	
	Raymond	DS1	265278	4870714	19-Oct-15	1.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	2.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	3.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	4.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	5.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	6.0	13.50	9.3	89	
	Raymond	DS1	265278	4870714	19-Oct-15	7.0	13.50	9.3	89	
	Raymond	DS1	Not taken		2-May-16	0.3	17.00			Temperature taken by thermometer air temp = 9 degrees
	Raymond	M1	266853	4874915	22-Aug-16	0.3	23.90	7.5	94	Foggy and overcast taken just east of main inlet at 8:45
	Raymond	DS1	Not taken		24-Aug-16	0.3	22.70			
	Raymond	DS1	Not taken		24-Aug-16	3.0	22.70			
	Raymond	DS1	Not taken		24-Aug-16	8.5	22.70			
	Raymond	DS1	Not taken		16-Oct-16	0.3	13.89			Clear, light wind 9-10 A.M.
	Raymond	DS1	Not taken		16-Oct-16	6.6	14.44			
	Raymond	DS1	Not taken		16-Oct-16	15.0	14.44			
	Raymond	DS1	Not taken		17-May-17	0.3	12.78			
	Raymond	DS1	Not taken		17-May-17	3.0	13.33			
	Raymond	DS1	Not taken		17-May-17	13.0	13.33			
	Raymond	DS1	Not taken		16-Aug-17	0.3	25.00			
	Raymond	DS1	Not taken		16-Aug-17	4.5	22.22			
	Raymond	DS1	Not taken		16-Aug-17	11.5	19.44			
	Raymond	DS1	Not taken		18-Oct-17	0.3	14.44			
	Raymond	DS1	Not taken		18-Oct-17	5.5	14.44			
	Little	DS1	261437	4842989	16-May-15	0.3	17.90			
	Little	DS1			16-May-15	1.0	17.40			
	Little	DS1			16-May-15	2.0	17.50			
	Little	DS1			16-May-15	3.0	12.00			
	Little	DS1			16-May-15	4.0	11.90			
	Little	DS1	261471	4843002	21-Oct-14	0.3	14.40	Oxygen probe unstable.		
	Little	DS1			21-Oct-14	1.0	14.10			
	Little	DS1			21-Oct-14	2.0	13.50			
	Little	DS1			21-Oct-14	3.0	13.20			
	Little	DS1			21-Oct-14	4.0	13.10			
	Little	DS1	261468	4842911	19-Aug-14	0.3	21.70	8.4	95	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Little	DS1			19-Aug-14	1.0	21.50	8.3	94	
	Little	DS1			19-Aug-14	2.0	21.40	8.2	93	
	Little	DS1			19-Aug-14	3.0	21.20	8.1	91	
	Little	DS1	261454	4842986	7-May-14	0.3	11.60	10.3	95	
	Little	DS1			7-May-14	1.0	11.50	10.3	95	
	Little	DS1			7-May-14	2.0	11.40	10.3	94	
	Little	DS1			7-May-14	3.0	11.40	10.3	94	
	Little	DS1			7-May-14	4.0	11.40	10.1	93	
	Little	DS1	261461	4842986	23-Oct-13	0.3	13.90	10.7	99	
	Little	DS1			23-Oct-13	1.0	13.70	9.9	94	
	Little	DS1			23-Oct-13	2.0	13.60	9.8	93	
	Little	DS1			23-Oct-13	3.0	13.30	9.5	91	
	Little	DS1	261459	4843011	14-Aug-13	0.3	22.70	8.1	93	
	Little	DS1			14-Aug-13	1.0	22.10	8	92	
	Little	DS1			14-Aug-13	1.5	22.00	7.9	90	
	Little	DS1			14-Aug-13	2.0	21.90	7.8	89	
	Little	DS1			14-Aug-13	3.0	21.80	7.5	85	
	Little	DS1			14-Aug-13	4.0	20.70	6.3	71	
	Little	DS1	261476	4843036	10-Jul-13	0.3	22.60	8	93	
	Little	DS1			10-Jul-13	1.0	22.50	8	92	
	Little	DS1			10-Jul-13	1.5	22.50	7.9	91	
	Little	DS1			10-Jul-13	2.0	22.50	7.9	91	
	Little	DS1			10-Jul-13	3.0	22.50	7.9	91	
	Little	DS1			10-Jul-13	4.0	22.50	7.8	90	
	Little	DS1			10-Jul-13	4.5	22.50	7.8	90	
	Little	DS1	261444	4842971	6-May-13	0.5	13.80	10.1	97	
	Little	DS1	261444	4842971	6-May-13	1.0	13.70	9.9	96	
	Little	DS1	261444	4842971	6-May-13	2.0	13.60	9.9	95	
	Little	DS1	261444	4842971	6-May-13	3.0	12.90	9.3	90	
	Little	DS1	261444	4842971	6-May-13	4.0	12.80	9.4	89	
	Salmon River Lake	DS1	Not taken		18-Oct-17	0.3	15.56			
	Salmon River Lake	DS1	Not taken		18-Oct-17	7.6	15.56			
	Salmon River Lake	DS1	Not taken		18-Oct-17	3.0	15.56			
	Salmon River Lake	DS1	Not taken		17-Aug-17					
	Salmon River Lake	DS1	Not taken		17-Aug-17	0.3	18.89			
	Salmon River Lake	DS1	Not taken		17-Aug-17	3.0	22.22			
	Salmon River Lake	DS1	Not taken		6-May-17	0.3	14.44			
	Salmon River Lake	DS1	Not taken		6-May-17	3.0	14.44			
	Salmon River Lake	DS1	Not taken		4-May-17	4.0	13.33			
	Salmon River Lake	DS1	Not taken		18-Oct-16	0.3	14.44			Light wind, partly cloudy, 10 A.M.
	Salmon River Lake	DS1	Not taken		18-Oct-16	5.0	14.44			
	Salmon River Lake	DS1	Not taken		18-Oct-16	4.0	14.44			
	Salmon River Lake	DS1	Not taken		21-Aug-16	0.3	25.50			
	Salmon River Lake	DS1	Not taken		21-Aug-16	4.5	24.40			
	Salmon River Lake	DS1	Not taken		21-Aug-16	5.5	24.40			
	Salmon River Lake	DS1	Not taken		3-May-16	0.3	17.00			Temperature taken by thermometer at temp. = 10 degrees
	Salmon River Lake	DS1	739480	4841160	18-Oct-15	0.3	13.00	9.8	93	
	Salmon River Lake	DS1	739480	4841160	18-Oct-15	1.0	13.00	9.8	93	
	Salmon River Lake	DS1	739480	4841160	18-Oct-15	2.0	12.90	9.8	93	
	Salmon River Lake	DS1	739480	4841160	18-Oct-15	3.0	12.90	9.8	93	
	Salmon River Lake	DS1	739480	4841160	18-Oct-15	3.5	12.80	9.8	93	
	Salmon River Lake	DS1	739315	4841083	18-Aug-15	0.3	24.30	7.6	91	
	Salmon River Lake	DS1	739315	4841083	18-Aug-15	1.0	24.30	7.4	89	
	Salmon River Lake	DS1	739315	4841083	18-Aug-15	2.0	24.30	7.1	85	
	Salmon River Lake	DS1	739315	4841083	18-Aug-15	3.0	22.30	5.8	66	
	Salmon River Lake	DS1	739315	4841083	18-Aug-15	4.0	21.80	4.7	53	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Salmon River Lake	DS1	739362	484[illegible]08	[illegible]9-May-[illegible]5	0.3	15.80	Meter not working		
	Salmon River Lake	DS1	739362	484[illegible]08	[illegible]9-May-[illegible]5	1.0	15.90			
	Salmon River Lake	DS1			[illegible]9-May-[illegible]5	1.5	15.80			
	Salmon River Lake	DS1			[illegible]9-May-[illegible]5	2.0	15.80			
	Salmon River Lake	DS1			[illegible]9-May-[illegible]5	3.0	14.80			
	Salmon River Lake	DS1			[illegible]9-May-[illegible]5	4.0	14.50			
	Sellwood	DS1	734408	49[illegible]2[illegible]08	Aug [illegible]7/15	0.3	24.80	7.8	94	
	Sellwood	DS1	734408	49[illegible]2[illegible]08	Aug [illegible]7/15	1.0	24.70	7.7	93	
	Sellwood	DS1	734408	49[illegible]2[illegible]08	Aug [illegible]7/15	1.5	24.60	7.7	92	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	0.3	24.50	7.3	88	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	1.0	24.50	7.3	88	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	2.0	24.50	7.4	89	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	3.0	23.00	4.8	80	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	4.0	2[illegible].90	4.2	71	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	5.0	20.40	4.2	47	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	6.0	18.20	2.4	25	
	Sherwood	DS1	2599[illegible]0	4867907	Aug [illegible]8/15	7.0	14.60	1.9	20	
	Sherwood	DS2	259944	4867027	Aug [illegible]8/15	0.3	23.60	7.4	89	This is Agard DS1
	Sherwood	DS2	259944	4867027	Aug [illegible]8/15	1.0	23.60	7.1	84	
	Sherwood	DS2	259944	4867027	Aug [illegible]8/15	1.8	23.50	7.2	84	
	Sherwood	DS2	259944	4867027	Aug [illegible]8/15	2.0	23.40	7.2	84	
	Sherwood	DS2	259944	4867027	Aug [illegible]8/15	3.0	23.10	7.2	82	
	Agard	DS2	7408[illegible]3	4867008	Aug 20/15	0.3	24.70	7.4	97	
	Agard	DS2	7408[illegible]3	4867008	Aug 20/15	1.0	25.70	7.7	97	
	Agard	DS2	7408[illegible]3	4867008	Aug 20/15	2.0	22.70	6.2	71	
	Agard	DS2	7408[illegible]3	4867008	Aug 20/15	2.8	20.60	3.9	44	
	Agard	DS2	7408[illegible]3	4867008	Aug 20/15	3.0	19.60	0.3	3	
	Anna	S[illegible]	66 00484	44 05299	Aug [illegible]7/17	0.3	21.11			
	Anna	DC	738594	4882136	Aug 26/14	0.3	22.00	8.3	95	
	Anna	DC	738594	4882136	Aug 26/14	1.0	22.00	8.2	94	
	Anna	DC	738594	4882136	Aug 26/14	2.0	21.90	8.2	94	
	Anna	DC	738594	4882136	Aug 26/14	2.5	21.80	8.1	92	
	Anna	DC	738594	4882136	Aug 26/14	3.0	21.60	8.1	92	
	Anna	IN8	738754	4880975	Aug 26/14	0.3	21.40	8.2	93	
	Anna	IN8	738754	4880975	Aug 26/14	1.0	21.40	8.2	92	
	Anna	IN8	738754	4880975	Aug 26/14	1.5	21.40	8.1	92	
	Anna	IN8	738754	4880975	Aug 26/14	2.0	20.80	7.9	89	
	Black Bog Brook	LAR	739394	4878816	Aug 26/14	0.3	20.40	6	56	
	Black Bog Brook	JFP	739990	4877634	Aug 26/14	0.3	23.50	7.57	91	
	Kearney	DS1	740357	4859881	Aug 18/15	0.3	23.30	7.6	90	
	Peters	DS1	268429	4884538	Aug 20/15	0.3	25.80	7.9	97	
	Peters	DS1	268429	4884538	Aug 20/15	1.0	25.80	7.6	93	
	Peters	DS1	268429	4884538	Aug 20/15	2.0	25.80	7.8	96	
	Peters	DS1	268429	4884538	Aug 20/15	3.0	23.20	6.4	75	
	Peters	DS1	268429	4884538	Aug 20/15	3.2	23.00	5.9	68	
	Peters	DS1	268429	4884538	Aug 20/15	4.0	21.80	4.3	49	
	Peters	DS1	268429	4884538	Aug 20/15	5.0	20.10	0.7	8	
	Peters	DS1	268429	4884538	Aug 20/15	6.0	16.30	0.1	1	
	Randalls	DS1	270060	4857234	August 24/15	0.3	26.40	7.2	89	
	Randalls	DS1	270060	4857234	August 24/15	1.0	26.40	7.1	88	
	Randalls	DS1	270060	4857234	August 24/15	1.2	26.40	7.1	88	
	Randalls	DS1	270060	4857234	August 24/15	2.0	26.40	7.2	89	
	Somes	DS1	267456	4870952	August 24/15	0.3	25.90	7.7	95	Maximum depth was 6 m
	Somes	DS1	267456	4870952	August 24/15	1.0	25.90	7.6	93	
	Somes	DS1	267456	4870952	August 24/15	2.0	25.80	7.7	9[illegible]	
	Somes	DS1	267456	4870952	August 24/15	3.0	25.80	7.5	93	

Table D.5 Historical Field Database

Watershed	Lake	Station	UTM Easting	UTM Northing	Date	Depth (m)	Temperature (°C)	DO (mg/L)	DO (%sat)	Notes
	Barnes	DS1	267456	4870957	August 24/15	4.0	25.80	7.2	89	
	Barnes	DS1	267456	4870957	August 24/15	5.0	23.60	7	82	
	Kempt Back-Gold4	GP4	271785	4884680	August 23/14	0.3	18.40	5.8	62	Taken upstream of culvert at 11:10; well-shaded
	Kempt Back-Gold4	GP0	271794	4884637	August 23/14	0.3	17.90	6.2	65	Taken downstream of culvert at 11:25; well-shaded
	Kempt Bay1	KB1N	272307	4883677	August 23/14	0.3	23.00	7.7	90	Taken at southeast side of Bay1 Brook "Estuary" at 11:45
	Kempt Bay1	KB1S	272424	4881854	August 23/14	0.3	27.50	8.4	97	Taken on southern side of lake at 12:05; moderate wind blowing onshore
	Little Doucette	OI	735447	4887645	August 20/13	0.3	24.00	10.7	127	
	Little Doucette	OI	735447	4887645	August 20/13	0.8	22.40	10.6	122	
	Little Doucette	DSM	735560	4888000	August 20/13	0.3	24.30	10.7	121	
	Little Doucette	DSM	735560	4888000	August 20/13	0.8	22.80	10.3	118	
	Little Doucette	DSM	735560	4888000	August 20/13	2.0	21.70	6.7	74	
	Little Doucette	IN	735465	4887096	August 20/13	0.3	25.60	9.9	121	

Table D.6 Historical and Predicted Flows and Phosphorus Loads

Watershed	Lake	Station	Station Drainage Area (ha)	48-hr Preceding Precipitation to Monitoring Event				Flow					Phosphorus Concentration				Phosphorus Load				
				2009	2010	2011	2017	2009 Observed	2010 Observed	2011 Observed	2017 Area-Ratio	2017 2009 Pro-Rated	2009	2010	2011	2017	2009	2010	2011	2017 Area-Ratio	2017 2009 Pro-Rated
				mm				m3/s					mg/L				kg/day				
Carleton	Hourglass Lake	HL-IN1	40	0	-	-	3	0.0001	-	-	0 [a]	0 [a]	0.17	-	-	-	0.001	-	-	-	-
		HL-OL1	287	0	0	0	3	0.072	0.014	0.035	0.215	0.091	0.049	0.043	0.022	0.027	0.30	0.05	0.07	0.64	0.21
	Placides Lake	PLA-IN1	2,111	0		9	0	4.193	-	6.900	2.022	5.302	0.61	0.94	1.6	0.75	221.10	-	953.86	131.03	343.59
		PLA-OL1	2,463	0		9	0	1.998	-	6.480	2.361	2.525	0.66	0.71	1.1	0.624	113.93	-	615.86	127.30	136.15
	Porcupine Lake	PORL-IN1	939	0	5	6	0	0.648	0.918	2.240	0.899	0.819	0.08	0.03	0.3	0.197	4.48	2.38	58.06	15.31	13.94
		PORL-OL1	1,242	-	-	-	0	-	-	-	1.190	-	0.031	0.019	0.014	0.015	-	-	-	1.54	-
	Wentworth Lake	WL-IN1	6,235	-	-	-	0	-	-	-	5.972	-				0.219	-	-	-	113.01	-
		WL-IN2	204	-	-	-	0	-	-	-	0.195	-				0.026	-	-	-	0.44	-
		WL-IN3	7,213	-	-	-	0	-	-	-	6.909	-				0.045	-	-	-	26.86	-
		WL-IN4	101	-	-	-	0	-	-	-	0.097	-				0.025	-	-	-	0.21	-
		WL-OL1	14,769	-	-	-	0	-	-	-	14.147	-				0.131	-	-	-	160.12	-
	Parr Lake	PARL-INA	20,167	3		1	0	2.070	-	0.240	19.318	2.616	0.018	0.099	0.097	0.04	3.22	-	2.01	66.76	9.04
		PARL-INB	1,034	3	5	-	0	0.756	0.200	-	0.990	0.956	0.011	0.012	0.076	0.016	0.72	0.21	-	1.37	1.32
		PARL-INC	95	3	-	1	0	0.072	-	0.130	0.091	0.091	0.016	0.057	0.012	0.02	0.10	-	0.13	0.16	0.16
		PARL-OL1	24,959	3	-	1	0	13.862	-	8.925	23.908	17.521	0.076	0.054	0.062	0.06	91.03	-	47.81	123.94	90.83
	Ogden Lake	OL-IN1	24,967	3	5	1	0	12.212	5.000	8.925	23.916	15.435	0.076	0.054	0.062	0.061	80.19	23.33	47.81	126.05	81.35
		OL-OL1	26,232	3	-	-	0	13.862	-	-	25.127	17.521	0.066	0.029	0.025	0.027	79.05	-	-	58.62	40.87
	Lake Fanning	LF-IN1	27,430	12	-	0	3	6.600	-	3.680	26.273	8.342	0.064	0.24	0.018	0.03	36.50	-	5.72	68.10	21.62
		LF-IN2	624	12	-	0	3	0.108	-	0.329	0.598	0.137	0.02	0.008	0.007	0.011	0.19	-	0.20	0.57	0.13
		LF-IN3	714	12	-	-	3	0.216	-	-	0.684	0.273	0.007	0.005	0.005	0.004	0.13	-	-	0.24	0.09
		LF-OL1	29,438	12	-	-	3	33.379	-	-	28.199	42.188	0.059	0.019	0.015	0.022	170.15	-	-	53.60	80.19
	Sloans Lake	SL-OL1	602	0	-	7	0	0.009	-	0.071	0.577	0.011	0.005	0.005	0.005	0.002	0.00	-	0.03	0.10	0.002
	Vaughan Lake	VL-IN1	33,476	0	-	2	3	16.118	-	71.145	32.066	20.372	0.034	0.014	0.009	0.011	47.35	-	55.32	30.48	19.36
		VL-IN2	109,744	0	-	2	3	16.038	-	21.762	105.123	20.270	0.014		0.008	0.012	19.40	-	15.04	108.99	21.02
		VL-OL1	144,629	0	-		3	37.820	-	-	138.539	47.800	0.022	0.017	0.011	0.012	71.89	-	-	143.64	49.56
Sissboo	Provost Lake	PROL-OL1	499	0	-	6	3	0.216	-	0.208	0.478	0.273	0.016	-	0.015	0.02	0.30	-	0.27	0.83	0.47
Meteghan	Newlans Lake	NL-IN1	35	0	0	-	3	0.009	0.025	-	0.034	0.011	5.4	8.7	7.9	3.33	4.70	18.79	-	9.45	3.27
		NL-OL1	281	0	-	-	3	0.230	-	-	0.269	0.291	0.4	0.42		0.571	7.96	-	-	13.25	14.37

[a] no flow observed during site visit

Appendix E
Data Graphs

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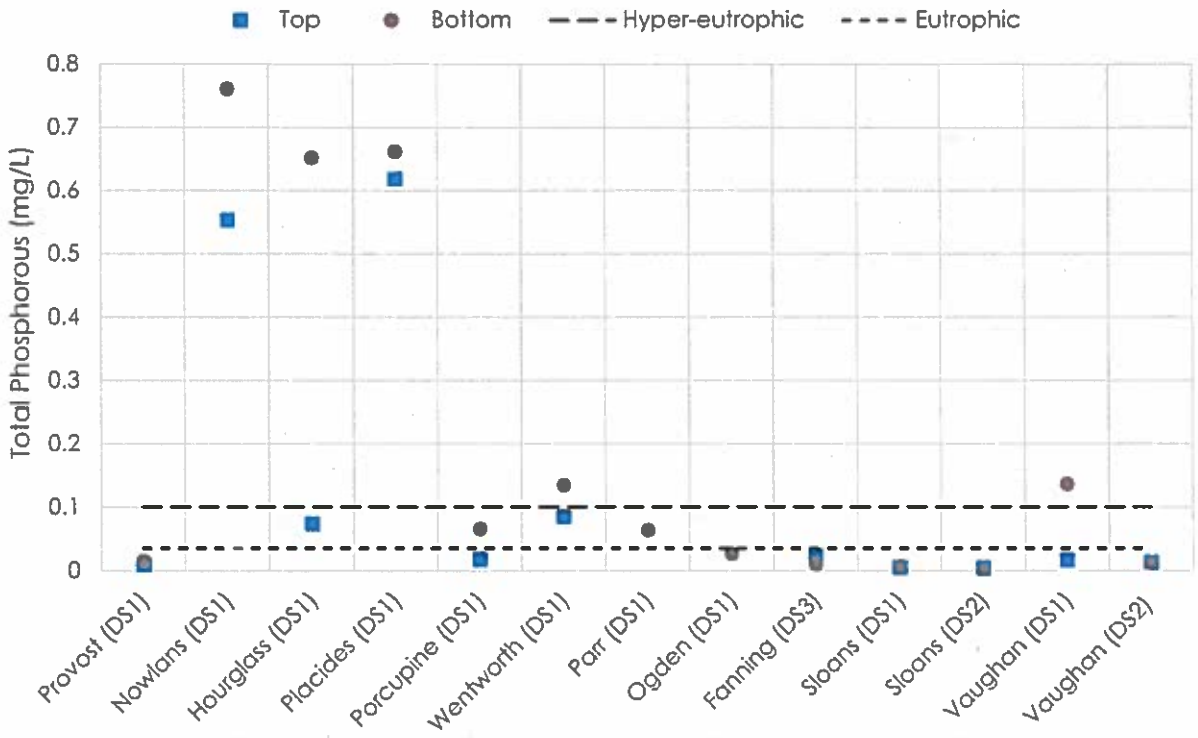


Figure E.1 TP Concentrations by Lake for the 2017 Monitoring Period

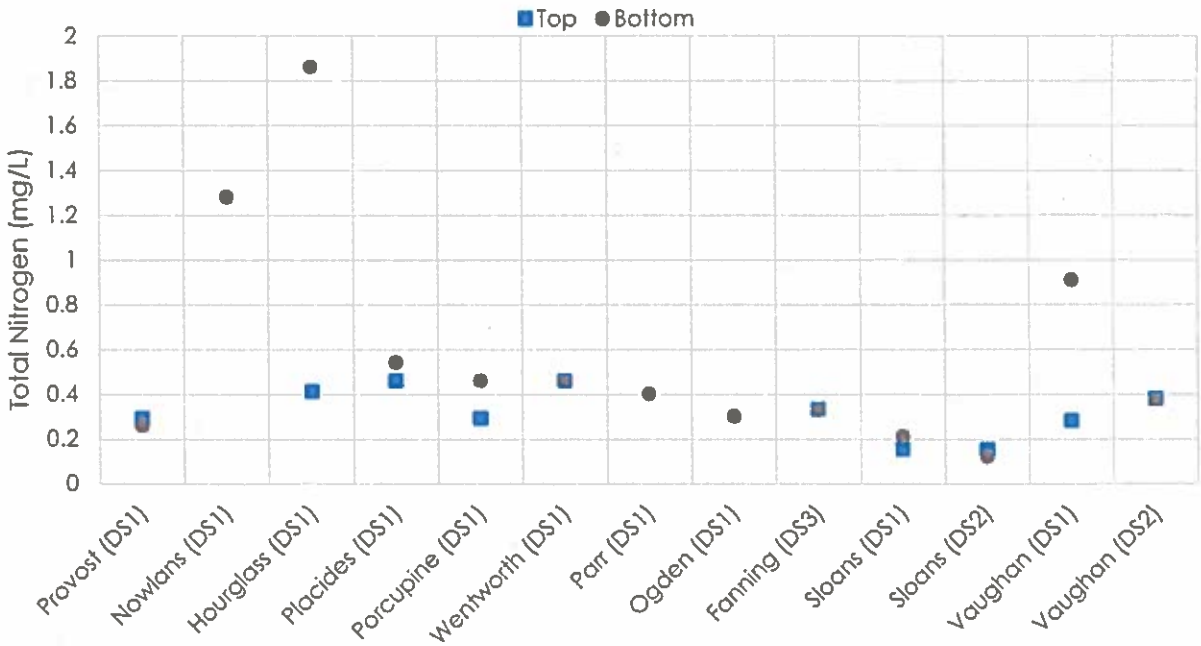


Figure E.1 TN Concentrations by Lake for the 2017 Monitoring Period

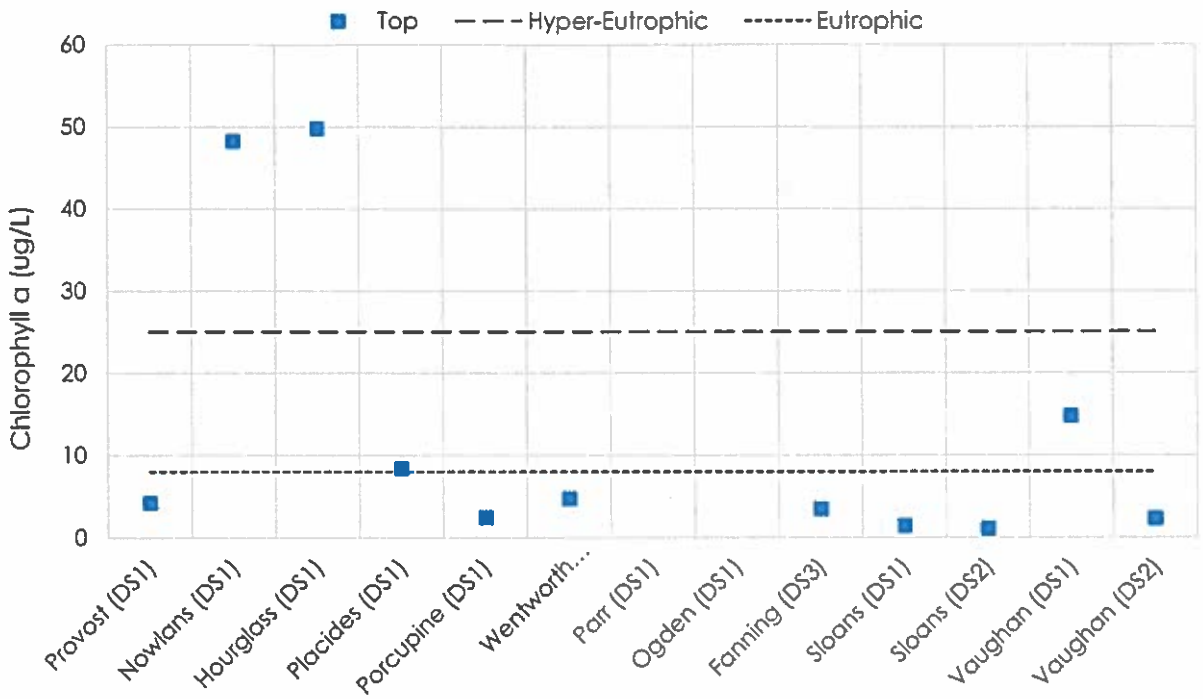


Figure E.2 Chlorophyll a Concentrations by Lake for the 2017 Monitoring Period

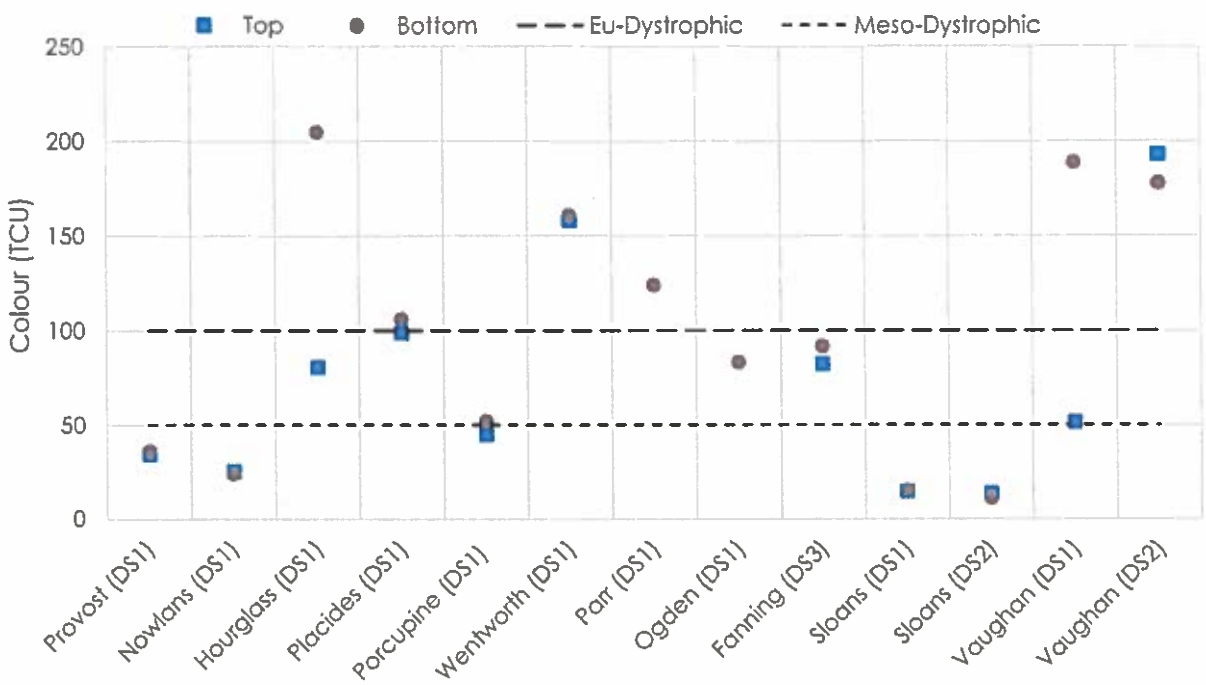


Figure E.3 Colour by Lake for the 2017 Monitoring Period

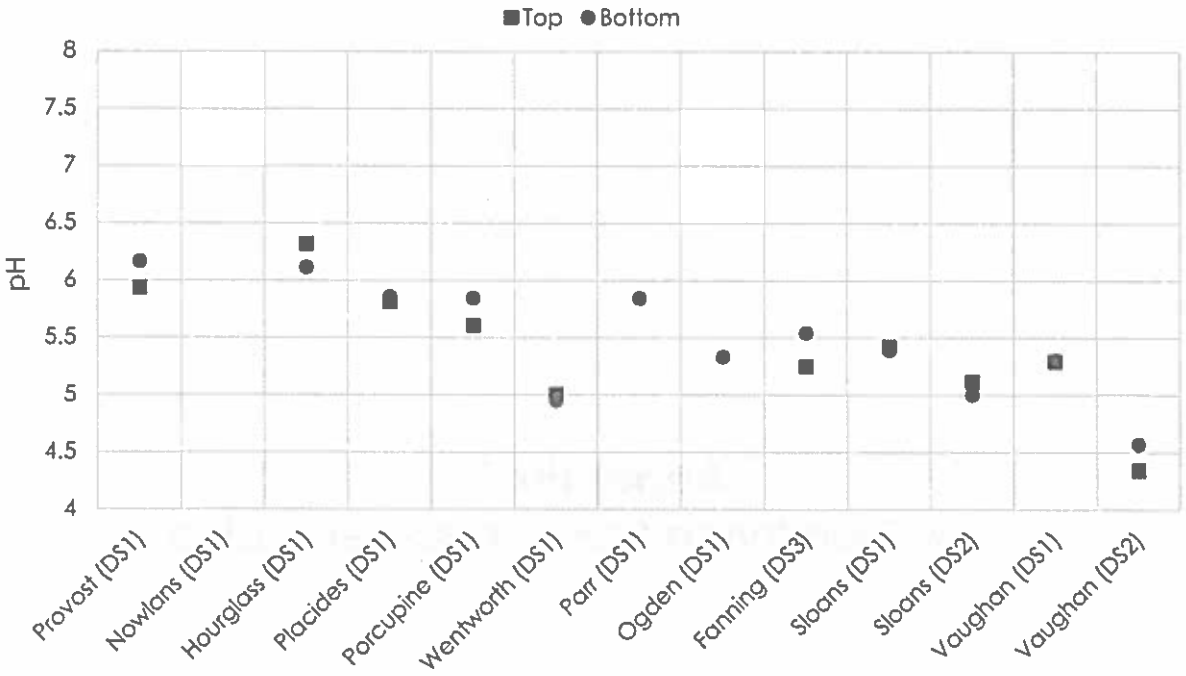


Figure E.4 pH by Lake for the 2017 Monitoring Period

Appendix F
Flow Monitoring Site Assessment Table

Stantec

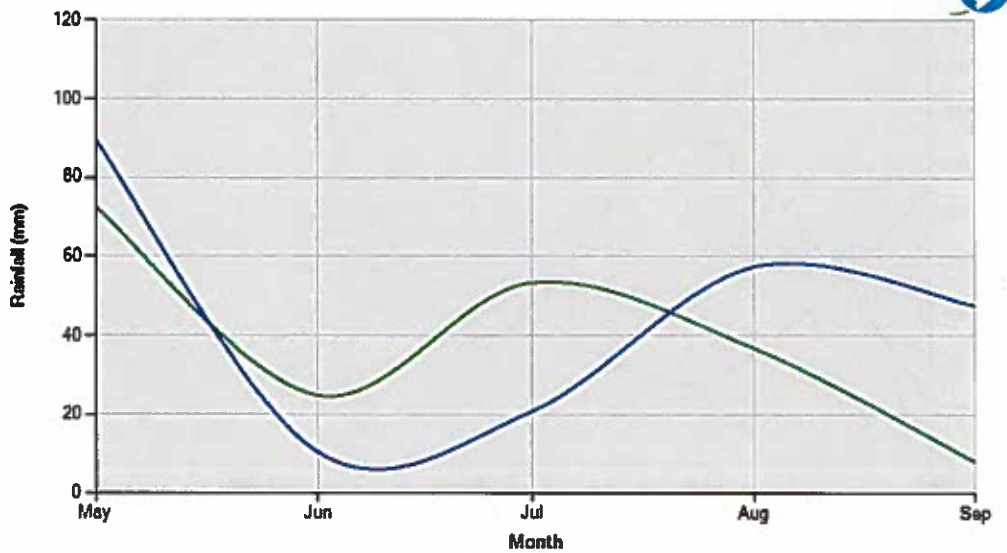
Table F.1 Flow Monitoring Site Assessment Table

Lake	ST Location	Go/No-Go	Notes
Hourglass Lake	HL-IN1	GO	-
Hourglass Lake	HL-OL1	GO	-
Hourglass Lake	HL-AQIN1	GO	-
Hourglass Lake	HL-AQIN2	GO	-
Placides Lake	PLAL-IN1	GO	-
Placides Lake	PLAL-OL1	GO	-
Porcupine Lake	PORL-IN1	GO	-
Porcupine Lake	PORL-OL1	GO	-
Wentworth Lake	WL-IN1	GO	-
Wentworth Lake	WL-IN2	GO	-
Wentworth Lake	WL-IN3	GO	-
Wentworth Lake	WL-IN4	GO	-
Wentworth Lake	WL-OL1	NO-GO	Approx 1M deep, faster moving and precarious on foot
Parr Lake	PARL-INA	NO-GO	>1M deep, soft bottom
Parr Lake	PARL-INB	GO?	Flowing fast and deep at time of sampling, but would expect it to be more maneagable under normal flows
Parr Lake	PARL-INC	GO	-
Parr Lake	PARL-OL1	NO-GO	Approaching 2 m in depth
Ogden Lake	OL-IN1	NO-GO	Approaching 2 m in depth
Ogden Lake	OL-OL1	NO-GO	Channel here is set of rapids (relatively shallow <0.5m), but moving swiftly.
Lake Fanning	LF-IN1	GO	-
Lake Fanning	LF-IN2	GO	-
Lake Fanning	LF-IN3	GO	-
Lake Fanning	LF-OL1	GO?	Small set of rapids had flow moving swiftly, but likely more maneagable under normal flows
Sloans Lake	SL-OL1	GO	-
Lake Vaughan	VL-IN1	NO-GO	Deep >2m
Lake Vaughan	VL-IN2	NO-GO	Deep >2m
Lake Vaughan	VL-OL1	NO-GO	This is power generation channel. Deep, fast and variable in flow dependant on NSP gates open/closed at Dam downstream of this point
Provost Lake	PROL-OL1	GO	-
Nowlans Lake	NL-IN1	GO	-
Nowlans Lake	NL-OL1	GO	-

Appendix G
AGRG Climate Data

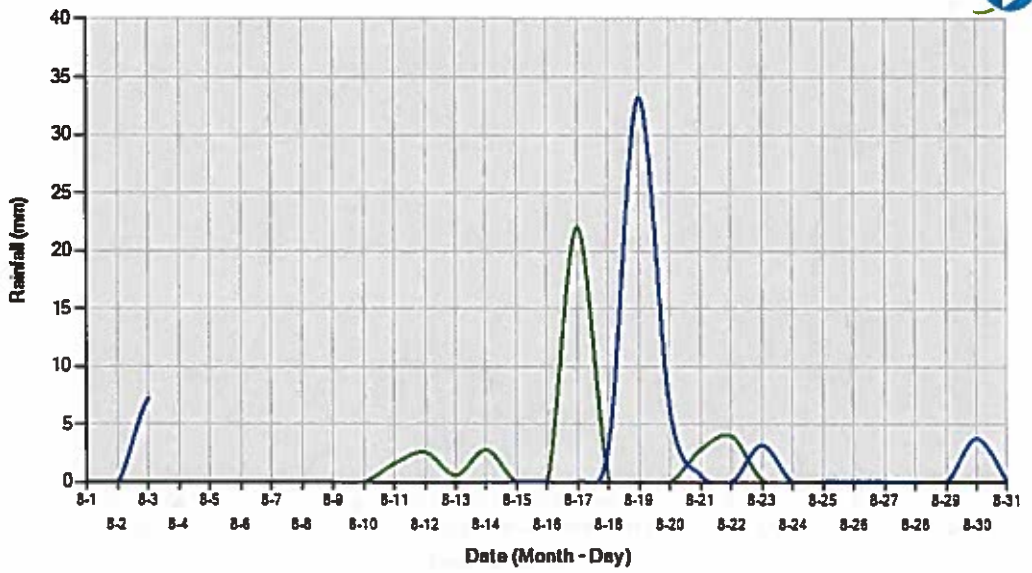
Stantec

Rainfall, May - September

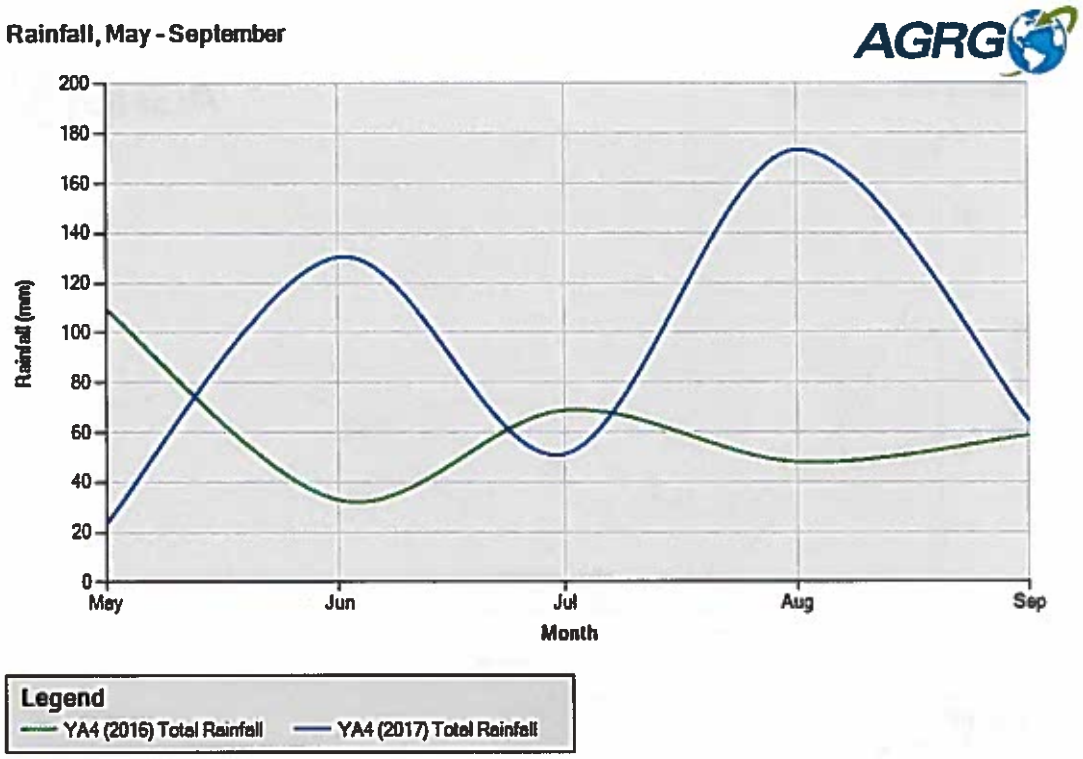


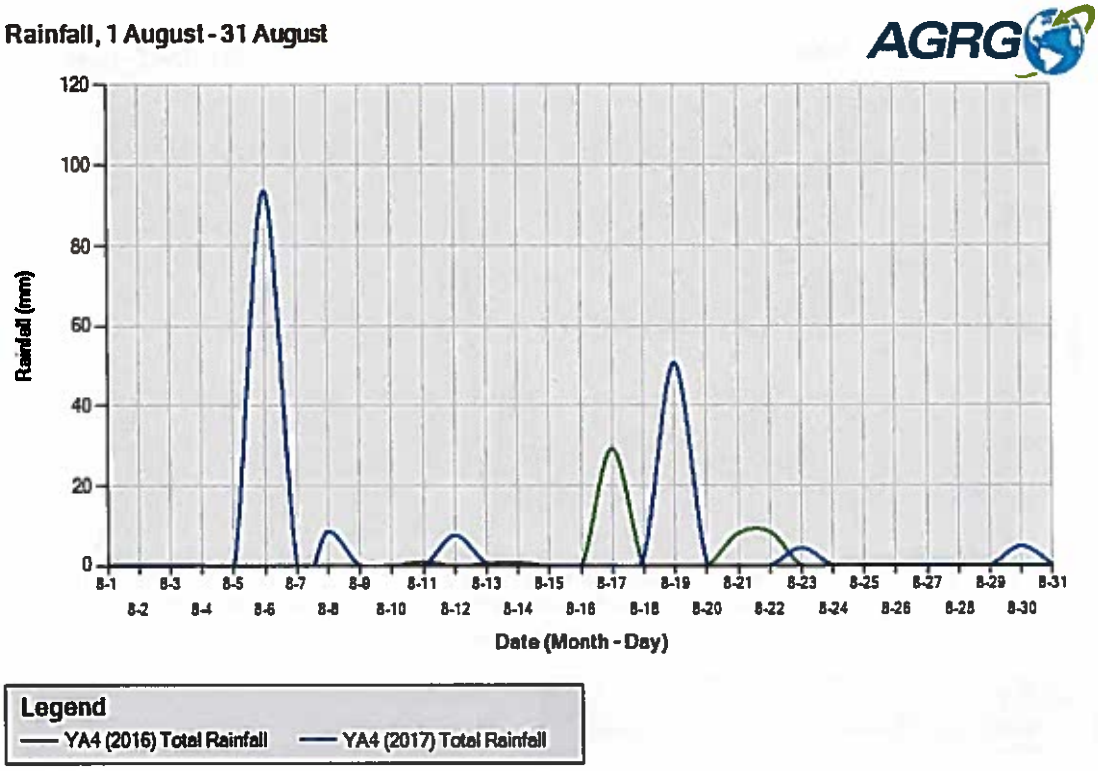
Legend
— YA3 (2016) Total Rainfall — YA3 (2017) Total Rainfall

Rainfall, 1 August - 31 August

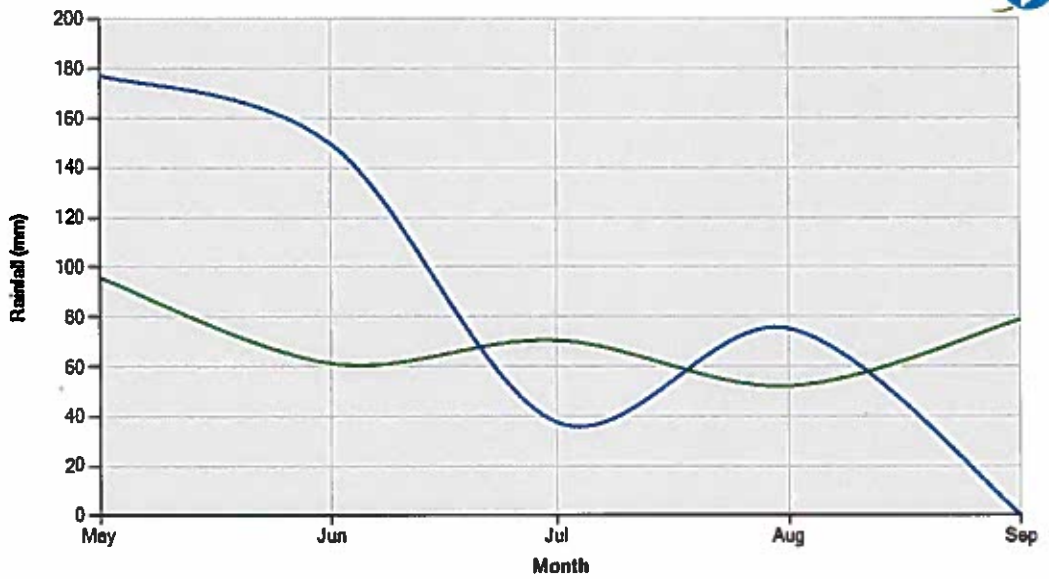


Legend
— YA3 (2016) Total Rainfall — YA3 (2017) Total Rainfall


Rainfall, May - September
AGRG
Rainfall (mm)
200
180
160
140
120
100
80
60
40
20
0
May
Jun
Jul
Aug
Sep
Month
Legend
YA4 (2016) Total Rainfall
YA4 (2017) Total Rainfall

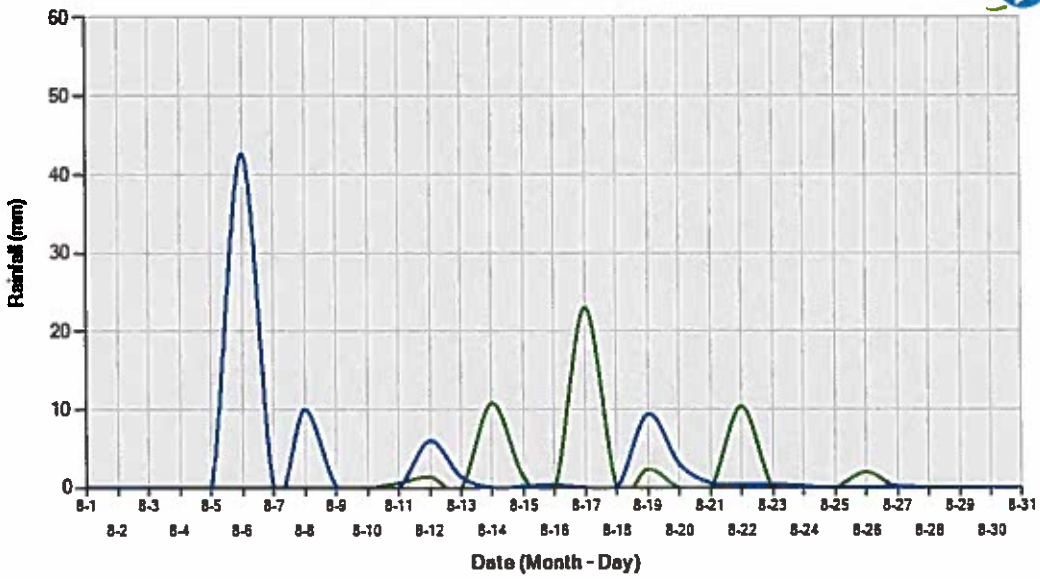

Rainfall, 1 August - 31 August
AGRG
Rainfall (mm)
120
100
80
60
40
20
0
8-1
8-2
8-3
8-4
8-5
8-6
8-7
8-8
8-9
8-10
8-11
8-12
8-13
8-14
8-15
8-16
8-17
8-18
8-19
8-20
8-21
8-22
8-23
8-24
8-25
8-26
8-27
8-28
8-29
8-30
8-31
Date (Month - Day)
Legend
YA4 (2016) Total Rainfall
YA4 (2017) Total Rainfall

Rainfall, May - September



Legend
— WE5 (2016) Total Rainfall — WE5 (2017) Total Rainfall

Rainfall, 1 August - 31 August



Legend
— WE5 (2016) Total Rainfall — WE5 (2017) Total Rainfall