Year	Date(s)	Sample Site	Results	Misc. Details
1966	July 9	Robbins Bay	Water Temperatures (°C) - 5.4 - 22.3 Water Colour – Light Brown pH – 7.0 - 7.2	MNRF Lake Survey
		Sharpe's Bay	Water Temperatures (°C) - 5.1 - 22.0 Water Colour – Colourless pH – 6.7	MNRF Lake Survey
		Sheeps Bay	Water Temperature (°C) – 7.5 – 22.3 Water Colour – Light Brown pH – 8.1	MNRF Lake Survey
1970	Unknown	Brooks Bay	Total Phosphorus (µg/l) - 13	MOECC Program
	July 26-29	Brooks Bay (north)	Fecal Coliform (#/100 ml) – 16 Total Coliform (#/100 ml) - 79	OWRC Program
	July 26-29	Brooks Bay (west)	Fecal Coliform (#/100 ml) – 5	OWRC Program
	July 26-29	Sheeps Bay	Total Coliform (#/100 ml) - 109	OWRC Program
	July 26-29	Sharpe's Bay (north)	Fecal Coliform (#/100 ml) – 4	OWRC Program
	July 26-29	Sharpe's Bay (mid basin)	Total Coliform (#/100 ml) - 2	OWRC Program
	July 26-29	Williams Bay	Total Coliform (#/100 ml) – 4	OWRC Program
1971	Unknown	Brooks Bay	Chlorophyll a (µg/l) - 2.6 Water Clarity (m) - 4.0	MOECC Program

## Water Quality Monitoring on Jack Lake, 1966-2017.

Year	Date(s)	Sample Site	Results	Misc. Details
1971 (conťd)	September 1	Station 1	Alkalinity (mg/l) – 47.8 – 54.7 Dissolved Oxygen (mg/l) – 6.5 – 7.3 pH – 6.5 – 7.3 Total Dissolved Solids (mg/l) – 65 – 73 Water Colour - Colourless Water Temperatures (°C) – 6.0 - 19.2	MNRF Lake Survey
	September 1	Station 2	Alkalinity (mg/l) - 61.6 Dissolved Oxygen (mg/l) – 1.0 – 7.0 pH - 6.7 – 7.5 Total Dissolved Solids (mg/l) - 52 – 68 Water Colour – Colourless Water Temperatures (°C) – 8.0 – 19.0	MNRF Lake Survey
	September 1	Station 3	Alkalinity (mg/l) $-$ 47.8 $-$ 54.7 Dissolved Oxygen (mg/l) $-$ 1.0 $-$ 8.0 pH $-$ 6.7 $-$ 7.6 Total Dissolved Solids (mg/l) $-$ 68 $-$ 74 Water Colour $-$ Colourless Water Temperatures (°C) $-$ 7.0 $-$ 19.0	MNRF Lake Survey
	September 1	Station 4	Alkalinity - $(mg/l) - 47.8 - 54.7$ Dissolved Oxygen $(mg/l) - 1.0 - 7.0$ pH - 6.7 - 80 Total Dissolved Solids $(mg/l)$ - 52 - 69 Water Colour - Colourless Water Temperatures (°C) - 8.0 - 20.0	MNRF Lake Survey
	September 1	Station 5	Alkalinity (mg/l) – 54.7 Dissolved Oxygen (mg/l) – 2.0 – 8.0 pH – 6.5 – 8.0 Total Dissolved Solids (mg/l)– 52 – 78 Water Colour – Colourless Water Temperatures (°C) – 5.0 – 20.0	MNRF Lake Survey

Year	Date(s)	Sample Site	Results	Misc. Details
971 cont'd)	September 1	Station 6	Alkalinity (mg/l) – 54.7 Dissolved Oxygen (mg/l) – 6.0 – 8.0 pH – 7.0 – 7.5 Total Dissolved Solids (mg/l) – 68 - 69 Water Colour – Colourless Water Temperatures (°C) – 13.0 – 21.0	MNRF Lake Survey
	September 2	Station 7	Alkalinity (mg/l) – 85.5 – 119.7 Dissolved Oxygen (mg/l) – 1.0 – 9.0 pH – 6.8 – 8.0 Total Dissolved Solids (mg/l) - 0 75 – 109 Water Colour - Colourless Water Temperatures (°C) – 4.0 – 21.0	MNRF Lake Survey
	September 2	Station 8	Alkalinity (mg/l) $-85.5 - 102.6$ Dissolved Oxygen (mg/l) $-1.0 - 9.0$ pH $-6.6 - 8.5$ Total Dissolved Solids (mg/l) $-73 - 86$ Water Colour $-$ Colourless Water Temperatures (°C) $-6.0 - 20.3$	MNRF Lake Survey
	September 2	Station 9	Alkalinity (mg/l) – 68.4 – 102.6 Dissolved Oxygen (mg/l) – 7.0 – 9.0 pH – 7.0 – 8.5 Total Dissolved Solids (mg/l) – 68 - 78 Water Colour – Colourless Water Temperatures (°C)	MNRF Lake Survey
	September 2	Station 10	Alkalinity (mg/l) $-85.5 - 102.6$ Dissolved Oxygen (mg/l) $-7.0 - 9.0$ pH $-7.0 - 8.5$ Total Dissolved Solids (mg/l) $-70 - 74$ Water Colour $-$ Colourless Water Temperatures (°C) $-6.0 - 20.0$	MNRF Lake Survey

Year	Date(s)	Sample Site	Results	Misc. Details
1974	Unknown	Brooks Bay	Chlorophyll <i>a (µ</i> g/l) - 1.9 Water Clarity (m) - 3.4	MOECC Program
	Unknown	Sharpe's Bay	Chlorophyll <i>a</i> ( $\mu$ g/l) - 1.4 Water clarity (m) - 4.4	MOECC Program
1978	Unknown	Brooks Bay	Alkalinity (mg/l) - 38 - 45 Calcium (mg/l) - 16.6 - 20.0 Colour (Pazen U) - 30 - 90 Conductivity (umhos/cm <sup>3</sup> ) - 104-115 Hardness (mg/l) - 48 - 53 pH - 6.71-7.82 Total Organic Carbon (mg/l) - 6.9 - 7.8 Turbidity (FTU) - 1.0 - 2.4	MOECC Program
	Unknown	Sheeps Bay	Alkalinity (mg/l) - 42 - 48 Calcium (mg/l) - 18.2 - 19.4 Colour (Pazen U) - 19 - 49 Conductivity (umhos/cm <sup>3</sup> ) - 112 - 120 Hardness (mg/l) - 52 - 56 pH - 6.85 - 7.69 Total Organic Carbon (mg/l) - 5.8 - 6.6 Turbidity (FTU) - 1.0 - 1.9	MOECC Program
	Unknown	Robbins Bay	Alkalinity (mg/l) - 43 - 54 Calcium (mg/l) - 18.6 - 22.0 Colour (Pazen U) - 18 - 30 Conductivity (umhos/cm <sup>3</sup> ) - 112 - 123 Hardness (mg/l) - 53 - 63 pH - 6.85 - 8.12 Total Organic Carbon (mg/l) - 5.8 - 6.3	MOECC Program

Year	Date(s)	Sample Site	Results	Misc. Details
1978 (cont'd)	Unknown	Sharpe's Bay	Alkalinity (mg/l) - 57 - 61 Calcium (mg/l) - 23 - 24 Colour (Pazen U) - 3 - 20 Conductivity (umhos/cm <sup>3</sup> ) - 131 - 140 Hardness (mg/l) - 64 - 68 pH - 7.06 - 8.43 Total Organic Carbon (mg/l) - 4.4 5 .5 Turbidity (FTU) - 0.6 - 1.3	MOECC Program
	Unknown	McCoy Bay	Alkalinity (mg/l) - 61 - 91 Calcium (mg/l) - 24 - 35 Colour (Pazen U) - 5 - 84 Hardness (mg/l) - 67 - 98 pH - 6.74 - 8.00 Total Organic Carbon (mg/l) - 4.9 - 5.8 Turbidity (FTU) - 0.1 - 5.2	MOECC Program
	Unknown	Williams Bay	Alkalinity (mg/l) - 60 - 88 Calcium (mg/l) - 23 - 25 Colour (Pazen U) - 5 - 58 Conductivity (umhos/cm <sup>3</sup> ) - 134 - 160 Hardness (mg/l) - 65 - 70 pH - 6.83 - 8.00 Total Organic Carbon (mg/l) - 4.9 - 5.6 Turbidity (FTU) - 0.7 - 3.4	MOECC Program
1979	April 14-23	Apsley Creek	pH - 6.9 – 7.1 (mean 6.92) Water Temperatures (°C) – 3.5 – 16.4	Corbett and Powles (1986)
1982	September 1	Sharpe's Bay	Dissolved Oxygen (mg/l) - 5.9 - 10.0 MVWHDO (mg/l) – 7.39 Water Temperatures (°C) - 2.5 - 15.8	MNRF Program

Year	Date(s)	Sample Site	Results	Misc. Details
1983	July 24 – August 18	McCoy Bay (Station 3)	Alkalinity (mg/l) – 47.9 – 68.4 Dissolved Oxygen (mg/l) – 0.6 – 8.4 pH – 7.0 – 8.0 Total Dissolved Solids (mg/l) – 101.5 – 134.3 Water Temperatures (°C) – 6.0 – 24.0	MNRF Program
	July 24 – August 18	Robbins Bay (Station 4)	Alkalinity (mg/l) – 41.0 – 47.9 Dissolved Oxygen (mg/l) – 2.9 – 8.0 pH – 7.0 – 8.0 Total Dissolved Solids (mg/l) – 84.9 – 130.1 Water Temperatures (°C) – 6.0 – 25.0	MNRF Program
	July 24 – August 18	Sharpe's Bay (Station 1)	Alkalinity (mg/l) – 41.0 – 61.6 Dissolved Oxygen (mg/l) - 0.3 – 8.2 pH – 7.0 – 8.0 Total Dissolved Solids (mg/l) – 88.6 – 134.3 Water Temperatures (°C) – 5.0 – 22.0	MNRF Program
	July 24 – August 18	Williams Bay (Station 2)	Alkalinity (mg/l) - 41.0 - 54.7 Dissolved Oxygen (mg/l) – 0.8 – 8.0 pH – 7.0 – 8.0 Total Dissolved Solids (mg/l) – 84.9 – 138.7 Water Temperatures (°C) – 5.0 – 24.0	MNRF Program
	August 23	Sharpe's Bay	Dissolved Oxygen (mg/l) - 5.2 - 9.7 MVWHDO (mg/l) - 7.85 Water Temperatures (°C) – 5.0 - 22.2	MNRF Program
1986	April 24 – May 8	Misc. Spawning Sites	Water Temperatures (°C) – 10.0 – 19.0	MNRF Spring Spawning Survey

Year	Date(s)	Sample Site	Results	Misc. Details
1987	July 29	Sharpe's Bay	Dissolved Oxygen (mg/l) - 5.8 - 10.1 Water Temperatures (°C) - 7.0 - 25.0	Sampling by Dr. David Lean
	October 1	Sharpe's Bay	Dissolved Oxygen (mg/l) - 3.6 - 9.6 Water Temperatures (°C) - 5.0 - 14.8	Sampling by Dr. David Lean
1988	April 5 - 17	Apsley Creek	Water Temperatures (°C) – 4.0 – 11.0	MNRF Spring Spawning Survey
	April 6-16	Redmond Creek	Water Temperatures (°C) – 6.0 – 11.0	MNRF Spring Spawning Survey
	May 16	Sharpe's Bay	Dissolved Oxygen (mg/l) - 10.9 - 12.2 Water Temperatures (°C) - 5.0 - 14.8	Sampling by Dr. David Lean
	May 30	Sharpe's Bay	Dissolved Oxygen (mg/l) - 9.4 - 12.2 Water Temperatures (°C) - 4.9 - 19.1	Sampling by Dr. David Lean
	June 13	Sharpe's Bay	Dissolved Oxygen (mg/l) - 10.0 - 12.4 Water Temperatures (°C) - 5.0 - 17.8	Sampling by Dr. David Lean
	June 29	Sharpe's Bay	Dissolved Oxygen (mg/l) - 7.8 - 11.8 Water Temperatures (°C) - 5.0 - 18.9	Sampling by Dr. David Lean
	August 9	Sharpe's Bay	Dissolved Oxygen (mg/l) - 4.7 - 11.2 Water Temperatures (°C) - 5.1 - 25.3	Sampling by Dr. David Lean
1989	August 23	Station 1 (Sharpe's Bay)	Dissolved Oxygen (mg/l) $-5.2 - 9.3$ pH $-7.0 - 9.0$ Water Clarity (m) $-5.5$ Water Temperatures (°C) $-5.0 - 22.2$	MNRF Program

Year	Date(s)	Sample Site	Results	Misc. Details
1989 (conťď)	August 23	Station 2	Dissolved Oxygen (mg/l) – 0.2 – 9.1 pH – 6.5 – 8.5	MNRF Program
			Water Clarity (m) – 5.0	
			Water Temperatures (°C) – 5.9 – 22.1	
	August 23	Station 3	Dissolved Oxygen (mg/l) – 0.0 – 10.0	MNRF Program
			pH – 6.5 – 8.0	
			Water Clarity (m) $- 6.0$	
			Water Temperatures (°C) – 4.5 - 23.0	
	August 23	Station 4	Dissolved Oxygen (mg/l) – 2.4 – 9.0	MNRF Program
			pH – 6.5 – 8.0	
			Water Temperatures (°C) – 6.0 – 22.9	
	August	Station 5	Dissolved Oxygen (mg/l) – 0.0 – 9.0	MNRF Program
			pH – 6.5 – 8.0	
			Water Clarity (m) $-5.5$	
			Water Temperatures (°C) – 9.9 – 24.0	
1995	August 2	Sharpe's Bay	Dissolved Oxygen (mg/l) - 2.41 - 10.12	MOECC Program
			Water Temperatures (°C) - 5.7 - 25.3	
	August 19	Sharpe's Bay	Dissolved Oxygen (mg/l) - 0.78 - 10.07	MOECC Program
	-		MVWHDO (mg/l) – 8.74	-
			Water Temperatures (°C) - 5.7 - 25.8	
	September 16	Sharpe's Bay	Dissolved Oxygen (mg/l) - 0.11 - 8.56	MOECC Program
	•		MVWHDO (mg/l) – 6.35	5
			Water Temperatures (°C) - 5.7 - 18.3	

Year	Date(s)	Sample Site	Results	Misc. Details
1996 5	Spring	North end basin	Total Phosphorus (µg/l) - 8.0 Water Clarity (m) - 3.3	Lake Partner Program
		Sharpe's Bay	Total Phosphorus (μg/l) - 6.0 Water Clarity (m) - 4.6	Lake Partner Program
1997	Spring	Brooks Bay (Snake Island)	Total Phosphorus (μg/l) - 8.0 Water Clarity (m) - 3.0	Lake Partner Program
1998	Spring	Brooks Bay (Snake Island)	Total Phosphorus (μg/l) - 14.0 Water Clarity (m) - 3.4	Lake Partner Program
1999	Spring	Brooks Bay (Snake Island)	Total Phosphorus (μg/l) - 8.0 Water Clarity (m) - 3.8	Lake Partner Program
2000	Spring	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 8.0 Water Clarity (m) - 5.3	Lake Partner Program
2001	Spring	North end basin	Total Phosphorus (µg/l) - 9.0 Water Clarity (m) - 2.9	Lake Partner Program
		Brooks Bay (Snake Island)	Total Phosphorus (μg/l) - 8.0 Water Clarity (m) - 3.5	Lake Partner Program
2002	May 5	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 14.1 - 14.3 Water Clarity (m) - 3.4	Lake Partner Program
2003	June 8	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 10.3 - 10.5 Water Clarity (m) - 2.8	Lake Partner Program
2004	June 4	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 11.3 - 12.7 Water Clarity (m) - 4.5	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2004 (cont'd)	July 2	Sharpe's Bay	Total Phosphorus (mg/l) - 7.8 - 8.0	Lake Partner Program
()	August 2	North end basin	Total Phosphorus (mg/l) - 6.8 - 8.0	Lake Partner Program
2005	May 8	Brooks Bay Snake Island)	Total Phosphorus (μg/l) - 12.7 - 17.0 Water Clarity (m) - 2.0 Water Temperature (°C) – 10.0	Lake Partner Program
	May 8	Sharpe's Bay	Total Phosphorus (µg/l) - N/A Water Clarity (m) - 6.1	Lake Partner Program
	June 11	Brooks Bay	Water Clarity (m) – 4.7 Water Temperature (°C) – 24.0	Lake Partner Program
	June 26	Brooks Bay	Water Clarity (m) – 4.5 Water Temperature (°C) – 24.0	Lake Partner Program
	June 26	Sharpe's Bay	Water Clarity (m) – 7.0	Lake Partner Program
	July 9	Brooks Bay	Water Clarity (m) – 5.25 Water Temperature (°C) – 24.0	Lake Partner Program
	July 9	Sharpe's Bay	Water Clarity (m) – 7.0	Lake Partner Program
	July 30	Brooks Bay	Water Clarity (m) – 6.5 Water Temperature (°C) – 26.0	Lake Partner Program
	July 30	Sharpe's Bay	Water Clarity (m) – 5.5	Lake Partner Program
	August 4	Sharpe's Bay	Water Clarity (m) – 6.0	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2005 (cont'd)	August 9	Brooks Bay	Water Clarity (m) – 5.5 Water Temperature (°C) – 27.0	Lake Partner Program
	September 4	Brooks Bay	Water Clarity (m) – 6.0 Water Temperature (°C) – 22.0	Lake Partner Program
	September 4	Sharpe's Bay	Water Clarity (m) – 6.5	Lake Partner Program
	September 30	Brooks Bay	Water Clarity (m) – 3.1 Water Temperature (°C) – 8.5	Lake Partner Program
	October 30	Sharpe's Bay	Water Clarity (m) – 5.25	Lake Partner Program
2006	April 26	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 12.0 - 13.6 Water Clarity (m) - N/A	Lake Partner Program
	April 26	Callahan Bay	Total Phosphorus (µg/l) - 10.9 - 11.6 Water Clarity (m) - 4.8	Lake Partner Program
	April 26	Sharpe's Bay	Total Phosphorus (µg/l) - 8.3 Water Clarity (m) - 6.5	Lake Partner Program
2007	April 28	Brooks Bay	Water Clarity (m) – 3.0 Water Temperature (°C) –10.5	Lake Partner Program
	April 28	Sharpe's Bay	Water Clarity (m) – 6.25 Water Temperature (°C) – 7.9	Lake Partner Program
	May 13	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 6.9 - 7.2 Water Clarity (m) - 5.1	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2007 (cont'd)	May 13	Sharpe's Bay	Total Phosphorus (µg/l) - 8.0 Water Clarity (m) - 6.8	Lake Partner Program
	May 21	Brooks Bay	Water Clarity (m) – 4.5 Water Temperature (°C) – 16.0	Lake Partner Program
	May 21	Sharpe's Bay	Water Clarity (m) – 5.1 Water Temperature (°C) – 14.5	Lake Partner Program
	June 2	Brooks Bay	Water Clarity (m) – 5.5 Water Temperature (°C) – 23.5	Lake Partner Program
	June 2	Sharpe's Bay	Water Clarity (m) – 7.5 Water Temperature (°C) – 22.5	Lake Partner Program
	June 2	Williams Bay	Water Clarity (m) – 7.2 Water Temperature (°C) – 23.5	Lake Partner Program
	June 10	Brooks Bay	Water Clarity (m) – 4.7 Water Temperature (°C) – 22.0	Lake Partner Program
	June 10	Sharpe's Bay	Water Clarity (m) – 7.5 Water Temperature (°C) – 21.0	Lake Partner Program
	June 24	Brooks Bay	Water Clarity (m) – 4.5 Water Temperature (°C) – 20.5	Lake Partner Program
	June 24	Sharpe's Bay	Water Clarity (m) – 6.5 Water Temperature (°C) – 20.5	Lake Partner Program
	July 2	Brooks Bay	Water Clarity (m) – 5.5 Water Temperature (°C) – 22.0	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2007 (conťd)	July 2	Sharpe's Bay	Water Clarity (m) – 6.0 Water Temperature (°C) – 21.0	Lake Partner Program
	July 2	Williams Bay	Water Clarity (m) – 6.0	Lake Partner Program
	July 7	Brooks Bay	Water Clarity (m) – 4.0 Water Temperature (°C) – 25.5	Lake Partner Program
	July 7	Sharpe's Bay	Water Clarity (m) – 6.9 Water Temperature (°C) – 24.1	Lake Partner Program
	July 7	Williams Bay	Water Clarity (m) – 7.0 Water Temperature (°C) – 25.5	Lake Partner Program
	July 9	Sharpe's Bay	Water Clarity (m) – 6.3	Lake Partner Program
	July 22	Brooks Bay	Water Clarity (m) – 5.1 Water Temperature (°C) – 23.0	Lake Partner Program
	July 22	Sharpe's Bay	Water Clarity (m) – 7.1 Water Temperature (°C) – 23.0	Lake Partner Program
	July 22	Williams Bay	Water Clarity (m) – 6.2 Water Temperature (°C) – 24.0	Lake Partner Program
	July 28	Brooks Bay	Water Clarity (m) – 5.5 Water Temperature (°C) – 24.0	Lake Partner Program
	July 28	Sharpe's Bay	Water Clarity (m) – 7.2 Water Temperature (°C) – 24.2	Lake Partner Program
	July 28	Williams Bay	Water Clarity (m) – 5.2 Water Temperature (°C) – 24.4	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2007 (cont'd)	July 30	Brooks Bay	Water Clarity (m) – 4.0 Water Temperature (°C) – 25.5	Lake Partner Program
	July 30	Sharpe's Bay	Water Clarity (m) – 6.9 Water Temperature (°C) – 24.1	Lake Partner Program
	July 30	Williams Bay	Water Clarity (m) – 7.0 Water Temperature (°C) – 25.5	Lake Partner Program
	August 19	Brooks Bay	Water Clarity (m) – 5.75 Water Temperature (°C) – 22.0	Lake Partner Program
	August 19	Sharpe's Bay	Water Clarity (m) – 7.0 Water Temperature (°C) – 23.0	Lake Partner Program
	August 19	Williams Bay	Water Clarity (m) – 7.0 Water Temperature (°C) – 23.0	Lake Partner Program
	September 9	Brooks Bay	Water Clarity (m) – 6.5 Water Temperature (°C) – 22.0	Lake Partner Program
	September 9	Sharpe's Bay	Water Clarity (m) – 7.75 Water Temperature (°C) – 21.0	Lake Partner Program
	September 9	Wiiliams Bay	Water Clarity (m) – 7.5 Water Temperature (°C) – 22.0	Lake Partner Program
	September 28	Brooks Bay	Water Clarity (m) – 7.75 Water Temperature (°C) – 18.5	Lake Partner Program
	September 28	Sharpe's Bay	Water Clarity (m) – 7.2 Water Temperature (°C) –19.0	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2007 (conťd)	September 28	Williams Bay	Water Clarity (m) – 7.9 Water Temperature (°C) – 19.0	Lake Partner Program
	October 8	Brooks Bay	Water Clarity (m) – 5.1 Water Temperature (°C) – 17.0	Lake Partner Program
	October 8	Sharpe's Bay	Water Clarity (m) – 8.0 Water Temperature (°C) – 17.1	Lake Partner Program
	October 8	Wiilliams Bay	Water Clarity (m) – 8.0 Water Temperature (°C) – 17.5	Lake Partner Program
2008	May 19	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 10.0 - 26.2 Water Clarity (m) - N/A	Lake Partner Program
	May 19	Sharpe's Bay	Total Phosphorus (µg/l) -7.8-9.4 Water Clarity (m)- N/A	Lake Partner Program
	July 19	Sharpe's Bay	Dissolved Oxygen (mg/l) - 5.68 - 12.00 Water Temperatures (°C) - 5.26 - 23.50	MOECC Program
	October 20 - 27	Sharpe's Bay	Water Temperatures (°C) – 8.0 – 12.0	NHHS Study
2009	May 18	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 10.0 - 11.6 Water Clarity (m) - 5.1	Lake Partner Program
	May 18	Sharpe's Bay	Total Phosphorus (µg/l) - 8.5 - 9.4 Water Clarity (m) - 6.6	Lake Partner Program
	July 23	Sharpe's Bay	Dissolved Oxygen (mg/l) - 3.7 - 9.4 Water Temperatures (°C) - 6.1 - 21.1	MNRF Broad Scale Monitoring Program

Year	Date(s)	Sample Site	Results	Misc. Details
2009 (cont'd)	July 23	Williams Bay	Dissolved Oxygen (mg/l) - 0.3 - 8.9 Water Temperatures (°C) - 6.3 - 22.0	MNRF Program
	July 23	Robbins Bay	Dissolved Oxygen (mg/l) - 1.1 - 8.6 Water Temperatures (°C) – 5.7 - 21.4	MNRF Program
	September 2	Sharpe's Bay	Dissolved Oxygen (mg/l) - 2.4-8.7 MVWHDO (mg/l) - 5.58 Water Temperatures (°C) - 6.1-20.6	MOECC Program
	September 2	Robbins Bay	Dissolved Oxygen (mg/l) - 0.2 - 7.7 Water Temperatures (°C) - 5.5 - 20.5	MNRF Program
2010	April 2	Sharpe's Bay	Water Clarity (m) – 6.4 Water Temperature (°C) – 5.0	Lake Partner Program
	April 2	Williams Bay	Water Clarity (m) – 5.2 Water Temperature (°C) – 8.0	Lake Partner Program
	April 10	Brooks Bay	Water Clarity (m) – 4.7 Water Temperature (°C) – 7.5	Lake Partner Program
	April 11	Sharpe's Bay	Water Clarity (m) – 7.5 Water Temperature (°C) – 6.0	Lake Partner Program
	May 2	Mid lake (deep spot)	Total Phosphorus (µg/l) - 8.2 - 10.4	MOECC Program
	May 16	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 8.4 - 8.6 Water Clarity (m) - 4.2 Water Temperature (°C) – 13.5	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2010 (cont'd)	May 16	Sharpe's Bay	Total Phosphorus (µg/l) - 6.2 - 6.6 Water Clarity (m) - 5.4 Water Temperature (°C) – 12.5	Lake Partner Program
	May 24	Sharpe's Bay	Dissolved Oxygen (mg/l) - 8.9 - 18.8 Water Clarity (m) – 7.0 Water Temperatures (°C) - 8.9 - 12.9	Lake Partner Program
	June 20	Brooks Bay	Water Clarity (m) – 6.0 Water Temperature (°C) – 21.1	Lake Partner Program
	June 20	Sharpe's Bay	Dissolved Oxygen (mg/l) - 10.2 - 14.4 Water Clarity (m) – 6.0 Water Temperatures (°C) - 4.0 - 19.9	Lake Partner Program
	July 3	Brooks Bay	Water Clarity (m) – 3.7 Water Temperature (°C) – 21.0	Lake Partner Program
	July 4	Sharpe's Bay	Dissolved Oxygen (mg/l) - 9.8 - 14.2 Water Clarity (m) – 7.4 Water Temperatures (°C) - 4.0 - 19.2	Lake Partner Program
	July 25	Brooks Bay	Water Clarity (m) – 4.0 Water Temperature (°C) – 23.2	Lake Partner Program
	July 25	Sharpe's Bay	Dissolved Oxygen (mg/l) - 10.6 - 12.8 Water Clarity (m) – 5.5 Water Temperatures (°C) - 4.3 - 23.0	Lake Partner Program
	July 28	Sharpe's Bay	Dissolved Oxygen (mg/l) - 0.54 - 10.18 Water Temperatures (°C) - 5.90 - 24.48	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2010 (conťď)	July 28	Williams Bay	Dissolved Oxygen (mg/l) - 0.24 - 8.41 Water Temperatures (°C) - 6.51 - 25.17	Lake Partner Program
	July 28	Robbins Bay	Dissolved Oxygen (mg/l) - 2.04 - 8.27 Water Temperatures - 5.50 - 24.65	Lake Partner Program
	August 5	Brooks Bay	Water Clarity (m) – 3.1 Water Temperature (°C) – 23.5	Lake Partner Program
	August 7	Sharpe's Bay	Dissolved Oxygen (mg/l) - 9.0 - 13.0 Water Clarity (m) – 5.3 Water Temperatures (°C) - 4.0 - 22.2	Lake Partner Program
	September 5	Brooks Bay	Water Clarity (m) – 6.8 Water Temperature (°C) – 19.0	Lake Partner Program
	September 7	Sharpe's Bay	Dissolved Oxygen (mg/l) - 5.55 - 10.86 MVWHDO (mg/l) - 7.28 Water Temperatures (°C) - 6.16 - 20.90	Lake Partner Program
	September 8	Robbins Bay	Dissolved Oxygen (mg/l) - 0.45 - 10.17 Water Temperatures (°C)	MOECC Program
2011	May 29	Brooks Bay (Snake Island)	Dissolved Oxygen (mg/l) – 9.9 – 12.7 Total Phosphorus (μg/l) - 8.2 - 10.6 Water Clarity (m) - 4.2 Water Temperature (°C) – 15.0	Lake Partner Program
	May 28	Sharpe's Bay	Dissolved Oxygen (mg/l) – 12.7 – 13.2 Total Phosphorus (μg/l) - 7.4 - 8.6 Water Clarity (m) - 6.1 Water Temperature (°C) – 15.7	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2011 (conťd)	June 19	Brooks Bay	Dissolved Oxygen (mg/l) – 5.0 – 12.1 Water Clarity (m) – 4.7 Water Temperature (°C) – 15.4	Lake Partner Program
	June 19	Sharpe's Bay	Dissolved Oxygen (mg/l) – 12.0 – 15.2 Water Clarity (m) – 6.0 Water Temperature (°C) – 13.8	Lake Partner Program
	July 3	Sharpe's Bay	Dissolved Oxygen (mg/l) – 11.9-14.4 Water Clarity (m) – 6.0 Water Temperature (°C) – 22.9	Lake Partner Program
	July 3	Williams Bay	Dissolved Oxygen (mg/l) – 1.5 – 13.2	Lake Partner Program
	July 4	Brooks Bay	Dissolved Oxygen (mg/l) – 3.8 - 11.2 Water Clarity (m) – 3.6 Water Temperature (°C) – 24.5	Lake Partner Program
	August 3	Sharpe's Bay	Dissolved Oxygen (mg/l) – 8.0 – 15.1 Water Clarity (m) – 6.4 Water Temperature (°C) – 24.3	Lake Partner Program
	August 3	Williams Bay	Dissolved Oxygen (mg/l) – 1.75 – 14.2	Lake Partner Program
	August 4	Brooks Bay	Dissolved Oxygen (mg/l) – 1.7 – 11.2 Water Clarity (m) – 4.0 Water Temperature (°C) – 25.8	Lake Partner Program
	September 4	Sharpe's Bay	Dissolved Oxygen (mg/l) – 8.8 – 13.0 Water Clarity (m) – 6.0 Water Temperature (°C) – 21.6	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2011 (conťď)	October 9	Brooks Bay	Dissolved Oxygen (mg/l) – 2.0 – 12.6 Water Clarity (m) – 5.4 Water Temperature (°C) – 15.1	Lake Partner Program
	October 9	Sharpe's Bay	Dissolved Oxygen (mg/l) – 8.7 – 12.6 Water Clarity (m) – 7.6 Water Temperature (°C) – 15.6	Lake Partner Program
	October 9	Williams Bay	Disssolved Oxygen (mg/l) – 12.2 – 13.6	Lake Partner Program
	November 6	Brooks Bay	Dissolved Oxygen (mg/l) – 13.0 – 15.4 Water Clarity (m) – 3.1 Water Temperature (°C) – 9.1	Lake Partner Program
	November 6	Sharpe's Bay	Disssolved Oxygen (mg/l) – 12.2 – 13.5 Water Clarity (m) – 4.5 Water Temperature (°C) – 9.5	Lake Partner Program
2012	May 21	Brooks Bay (Snake Island)	Dissolved Oxygen (mg/l) – 9.3 – 15.2 Total Phosphorus (µg/l) - 7.8 Water Clarity (m) - 4.0 Water Temperature (°C) – 16.2	Lake Partner Program
	May 21	Sharpe's Bay	Dissolved Oxygen (mg/l) – 13.8 – 17.8 Total Phosphorus (µg/l) - 4.8 Water Clarity (m) - N/A Water Temperature (°C) – 14.0	Lake Partner Program
	August 22	Main Basin (Sharpe's Bay)	Water Temperature (°C) $- 6.2 - 21.6$ Conductivity ( $\mu$ s/m) $- 146 - 154$ Dissolved Oxygen (mg/l) $- 3.17 - 7.67$ pH - 5.92 $- 6.99$	MOECC Program

Year	Date(s)	Sample Site	Results	Misc. Details
201 (conťd)	September 20	Main Basin (Sharpe's Bay)	Water Temperature (°C) – 6.25 – 18.4 Dissolved Oxygen (mg/l) – 1.73 – 9.11	MOECC Program
2013	May 20	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 8.4 - 9.0 Water Clarity (m) - 2.2 Water Temperature (°C) – 18.0	Lake Partner Program
	May 20	Sharpe's Bay	Total Phosphorus (µg/l) - 6.6 - 7.2 Water Clarity (m) - 6.4 Water Temperature (°C) – 16.0	Lake Partner Program
	May 29	Brooks Bay	Water Clarity (m) - 3.7 Water Temperature (°C) – 15.0	Lake Partner Program
	May 29	Sharpe's Bay	Water Clarity (m) - 4.5 Water Temperature (°C) – 15.7	Lake Partner Program
	July 6	Brooks Bay	Dissolved Oxygen (mg/l) - 0.0 - 11.0 Water Clarity (m) – 6.0 Water Temperature (°C) - 4.0 - 23.0	JLA Project (Sheelagh Hysenaj)
		Sharpe's Bay	Dissolved Oxygen (mg/l) - 7.1 - 15.0 Water Clarity (°C) – 9.5 Water Temperature (°C) - 4.0 - 22.7	JLA Project (Sheelagh Hysenaj)
		Williams Bay	Dissolved Oxygen (mg/l) - 0.0 - 12.6 Water Clarity (m) – 7.9 Water Temperature (°C) - 4.0 - 23.0	JLA Project (Sheelagh Hysenaj)
	September	Brooks Bay	Water Clarity (m) – 3.6 Water Temperature (°C) - 17.3	Lake Partner Program

Year	Date(s)	Sample Sitet	Results	Misc. Details
2013 (cont'd)	September	Sharpe's Bay	Water Clarity (m) – 5.2 Water Temperature (°C) - 18.3	Lake Partner Program
	September	Williams Bay	Water Clarity (m) – 5.0 Water Temperature (°C) - 18.0	Lake Partner Program
2014	June 9	Brooks Bay (Snake Island)	Total Phosphorus (μg/l) - 8.6 - 9.0 Water Clarity (m) - 4.0 Water Temperature (°C) – 20.5	Lake Partner Program
	June 9	Sharpe's Bay	Total Phosphorus (µg/l) - 4.2 Water Clarity (m) - 7.4	Lake Partner Program
	August 4	Brooks Bay	Water Clarity (m) – 4.0 Water Temperature (°C) – 23.5	Lake Partner Program
	August 8	Brooks Bay	Water Clarity (m) – 5.8 Water Temperature (°C) – 20.0	Lake Partner Program
	August 8	Sharpe's Bay	Water Clarity (m) – 7.4 Water Temperature (°C) – 20.0	Lake Partner Program
	August 8	Williams Bay	Water Clarity (m) – 6.7 Water Temperature (°C) – 21.0	Lake Partner Program
	August 22	Brooks Bay	Water Clarity (m) – 5.5 Water Temperature (°C) – 24.0	Lake Partner Program
		Sharpe's Bay	Water Clarity (m) – 7.8 Water Temperature (°C) – 23.8	Lake Partner Program

Year	Date(s)	Sample Site	Results	Misc. Details
2014 (cont'd)	September 9	Brooks Bay	Water Clarity (m) – 5.0 Water Temperature (°C) – 19.0	Lake Partner Program
	September 9	Sharpe's Bay	Water Clarity (m) – 7.8 Water Temperature (°C ) – 19.5	Lake Partner Program
2015	May 17	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 9.0 - 9.4 Water Clarity (m) - 4.6	Lake Partner Program
	May 17	Sharpe's Bay	Total Phosphorus (µg/l) - 6.8 - 7.0 Water Clarity (m) - N/A	Lake Partner Program
	August 5	Brooks Bay	Water Clarity (m) – 4.3	Lake Partner Program
	August 8	Brooks Bay	Water Clarity (m) – 4.3	Lake Partner Program
2016	Unknown	Brooks Bay (Snake Island)	Total Phosphorus (µg/l) - 6.2 - 6.6 Water Clarity (m) - 5.0	Lake Partner Program
2017	Unknown	-	Total Phosphorus (µg/l) - Not yet available Water Clarity (m) – Not yet available	Lake Partner Program
	July 26	Sharpe's Bay	Conductivity $(\mu S/m) - 142.2 - 142.9$ Dissolved Organic Carbon $(mgC/l) - 4.76 - 4.96$ Dissolved Oxygen $(mg/l) - 4.31 - 9.08$ Dissolved Oxygen % Saturation - 31.6 - 103.0 Particulate Phosphorus $(\mu P/l) - 1.75 - 3.39 - pH - 7.59 - 8.23$ Soluble Reactive Phosphorus $(\mu gP/l) - 2.04 - 2.41$ Suspended Chlorphyll $(\mu g/l) - 1.59 - 3.48$ Total Phosphorus $(\mu gP/l) - 6.58 - 7.37$ Total Suspended Solids $(mg/l) - 1.31 - 3.30$ Water Clarity $(m) - 4.38$ Water Temperatures (°C) - 3.8 - 24.3	Trent University Study

## Legend

JLA – Jack Lake Association MNRF - Ministry of Natural Resources and Forestry MOECC – Ministry of the Environment and Climate Change MVWHDO – Mean volume weighted hypolimnetic dissolved oxygen NHHS – North Hastings High School OWRC – Ontario Water Resources Commission

## Interpretation of Results

Total Phosphorus - Less than 10  $\mu$ g/I – Oligotrophic 10-20  $\mu$ g/I – Mesotrophic Greater than 20  $\mu$ g/I - Eutrophic

## References

Corbett, B. W. and P. M. Powles. 1986. Spawning and larval drift of sympatric walleye and white suckers in an Ontario stream. Transactions of the American Fisheries Society 115:41-46.