



Area Description:

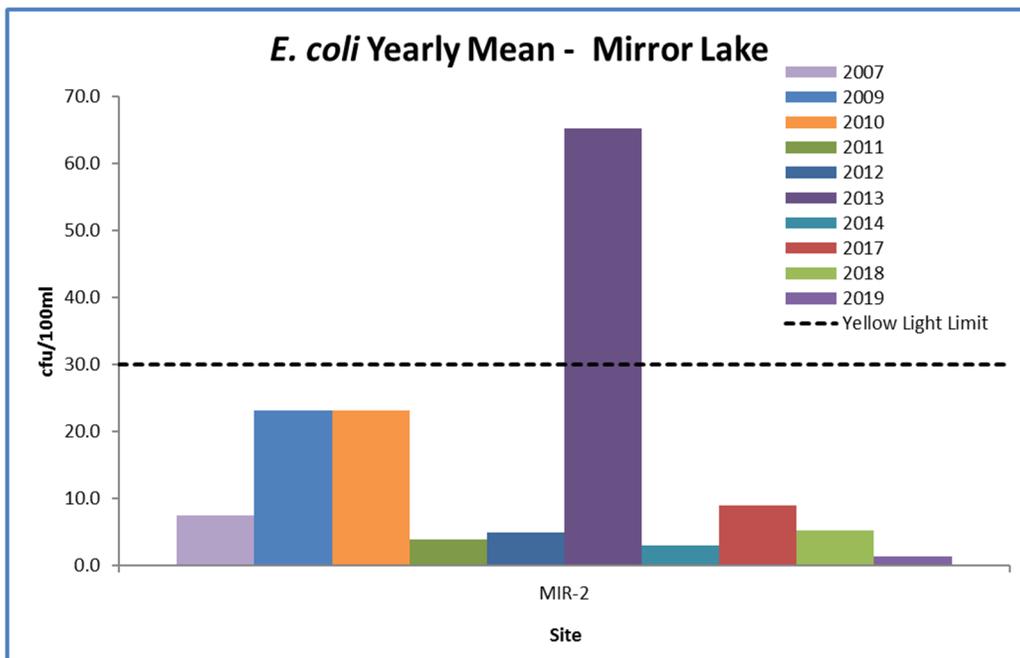
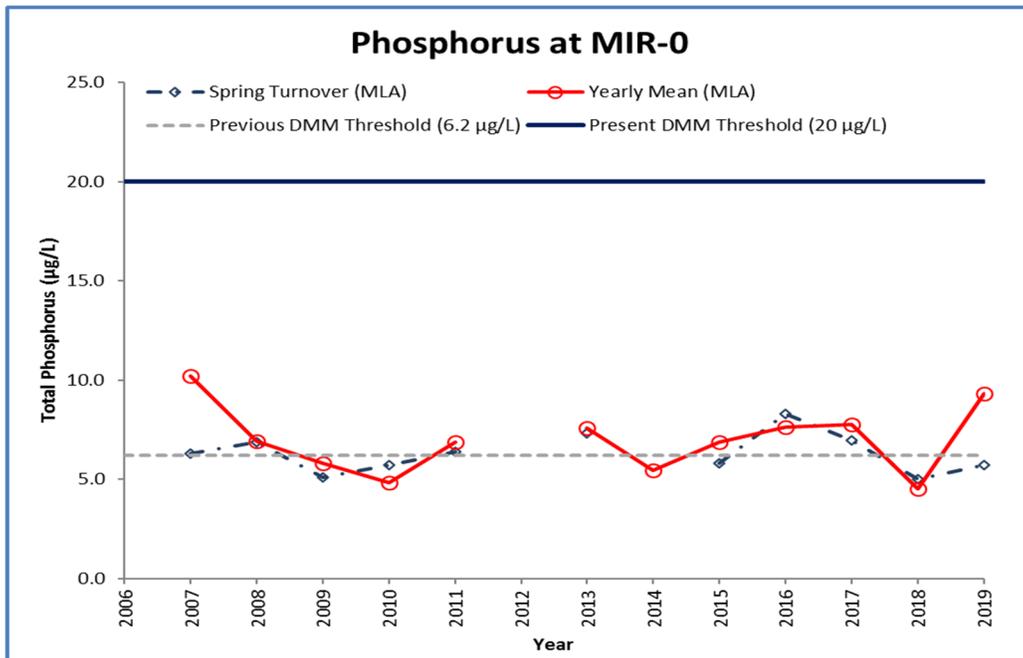
Mirror Lake is essentially a widening of the Indian River as it flows between Lake Rosseau to the north and Lake Muskoka to the south. The lake is approximately 0.46 km² in area, with a maximum depth of 8 m. Two small creeks outlet into the lake near sampling sites MIR-1 and MIR-2. Much of the lake is within the Town of Port Carling and receives drainage from the urban area. Mirror Lake has a small watershed, approximately 0.97 km², and was historically classified as moderately sensitive and over-threshold by the DMM. Monitoring started in 2007. All stations shown may not be sampled each year.

Volunteer Recognition: Susan Carson, Jane Armstrong and Chris Vandergrift.

Mirror Lake (MIR)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)
		Spring Turnover	Yearly Mean		
MIR-0	3.2	5.7	9.3		
MIR-2		5.4		1.4	40.5



Summary and Recommendations:



The spring phosphorus concentration at the deep station (MIR-0) was below the historic DMM threshold of 6.2 µg/L in 2019, and all readings remain well below the present DMM threshold (20 µg/L). The 2014 spring phosphorus result at MIR-0 remains removed from the analysis following the 2019 Grubb's Test for outliers. The 2019 yearly mean phosphorus average at MIR-0 is the second highest recorded due to the second highest sample result to date in July (22.5 µg/L). The yearly mean phosphorus at MIR-0 was substantially higher than the spring turnover concentration, therefore Mirror Lake changes from a green to a yellow stop light in 2019. The spring phosphorus sample collected at MIR-2 is the lowest recorded to date. *E. coli* counts remain well below the MLA stoplight limits (details in report Section 3) at MIR-2 in 2019. Secchi measurements vary through the sampling years between 1.95 and 4.45 m (2009). **Beacon recommends that all sampling be continued to monitor long-term trends.**