



Area Description:

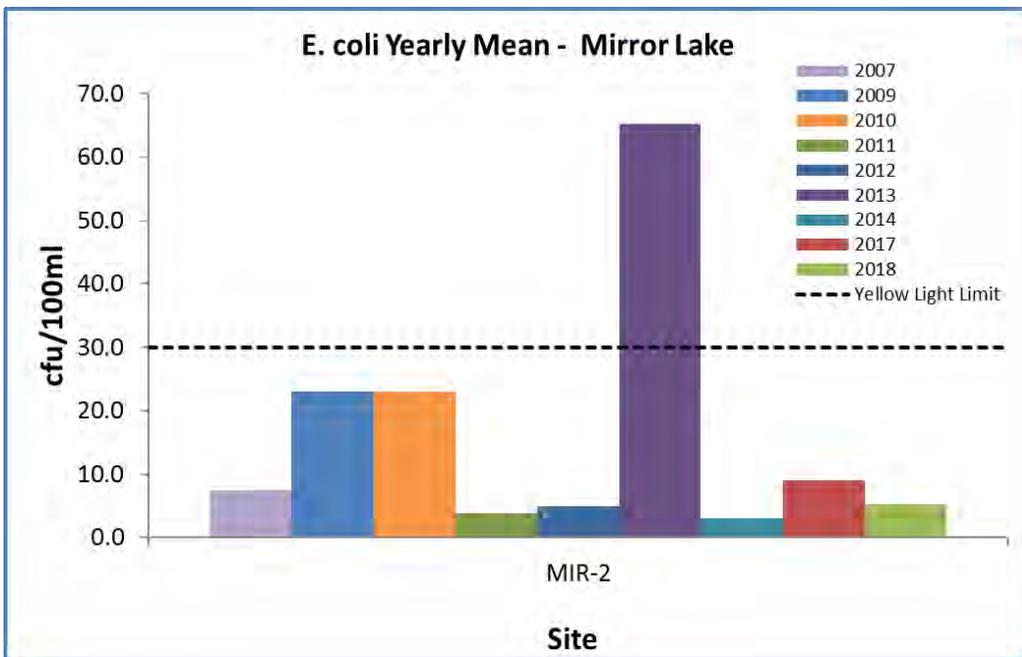
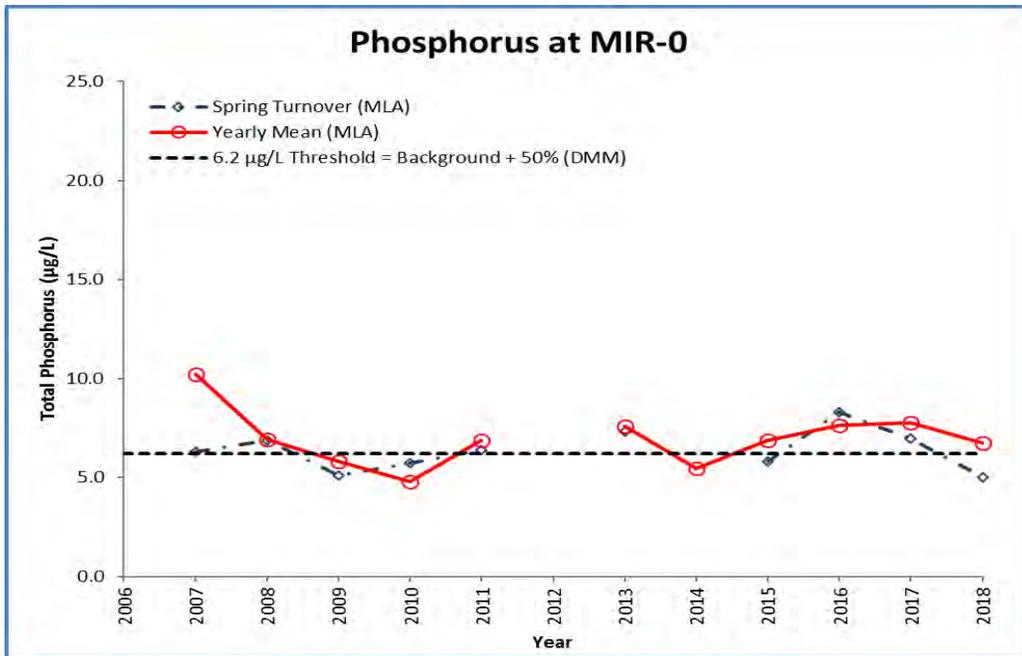
Mirror Lake is essentially a widening of the Indian River as it flows between Lake Rosseau to the north and Lake Muskoka to the south. The lake is approximately 0.46 km² in area, with a maximum depth of 8 m. Two small creeks outlet into the lake near sampling sites MIR-1 and MIR-2. Much of the lake is within the Town of Port Carling and receives drainage from the urban area. Mirror Lake has a small watershed, approximately 0.97 km², and is 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, Ian Turnbull, Dianne Turnbull and Randy Carson.

Mirror Lake (MIR)

2018 Water Quality Results: (Note: Hatched cell signifies not tested for in 2018)

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	3.3	5.0	6.7		
MIR-2		6.0		5.2	142.8



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 2018, and the lowest recorded to date. The 2014 spring turnover phosphorus result at MIR-0 remains removed from the analysis following the 2018 Grubb's Test for outliers. Only one spring phosphorus sample was collected at MIR-2 in 2018, therefore no yearly mean could be calculated, and no value is reported for 2018. The spring sample collected at MIR-2 was the lowest recorded spring phosphorus to date at that site. *E. coli* counts remain well below the MLA stoplight limits (details in report Section 3) at MIR-2 in 2018. Mean Secchi measurements also remain stable through sampling years, varying between 1.95 and 4.45. MIR was given a green stoplight in 2018, changed from a yellow stoplight in 2017. **Beacon recommends that all sampling be continued to monitor long-term trends.**