



Area Description:

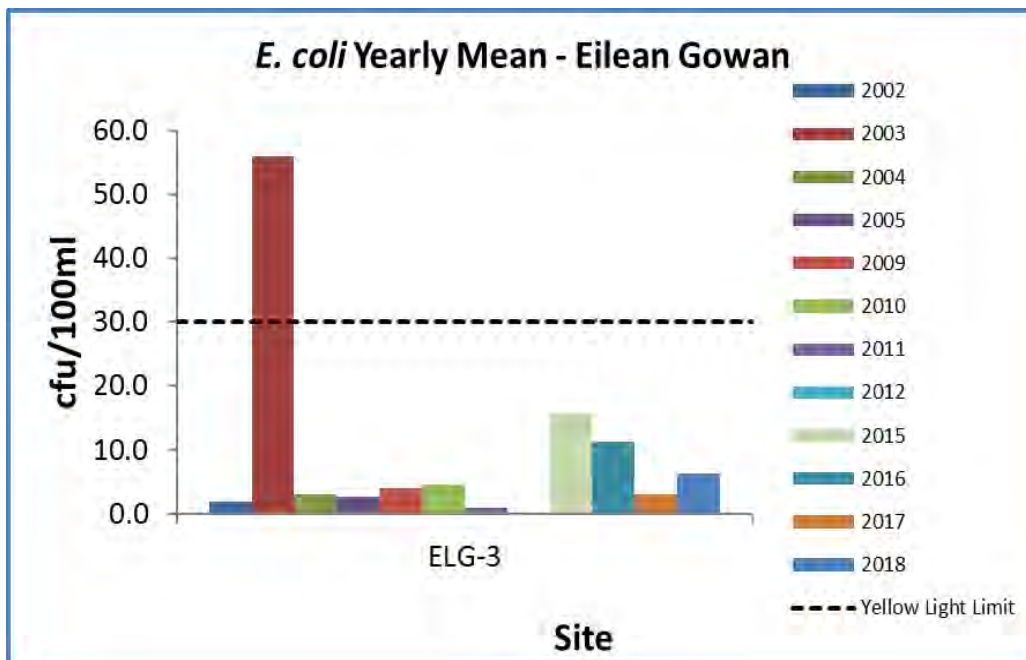
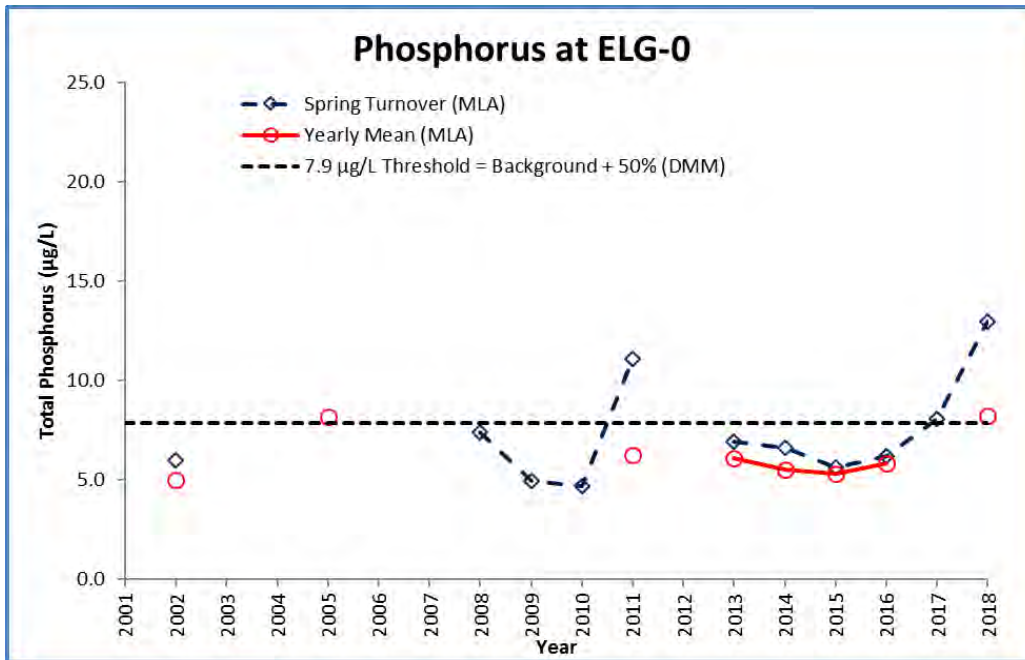
Eilean Gowan Island is in the eastern part of Lake Muskoka and is largely developed with residential cottages. Most of these properties appear to retain a well-vegetated shoreline except for a few lawns and tennis courts directly adjacent to the lake. The interior of this island is completely forested and a small stream outlets from the upland area at sampling site ELG-1. Monitoring started in 2002. All stations shown may not be sampled each year.

Volunteer Recognition: Susan Murphy, Doug Tate, Stephen Sims, Sheila Robinson and Beth Wilson.

Eilean Gowan Island (ELG)

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		
ELG-0	2.6	13.0	8.3		
ELG-3				6.2	43.5
ELG-5		14.0			



Summary and Recommendations:



The 2018 spring phosphorus concentration at ELG-0 exceeded the historic DMM threshold of 7.9 µg/L and was highest recorded level to date. Following the test for outliers of the spring phosphorus concentrations, the 2011 spring phosphorus data was again included in the analysis given the higher 2018 concentration. The 2018 yearly phosphorus mean value at ELG-0 was also the highest recorded to date. Phosphorus levels show an increasing trend in the last 3 years, changing the stoplight from green to yellow. ELG-5 is a new station first established in 2018 and had a spring phosphorus value similar to that recorded at ELG-0. The *E. coli* yearly mean at ELG-3 continued to remain below the MLA stoplight limits (details in report Section 3). Secchi measurements also remain stable through sampling years, varying between 2.0 and 5.3. **Beacon recommends continuing sampling to monitor trends.**