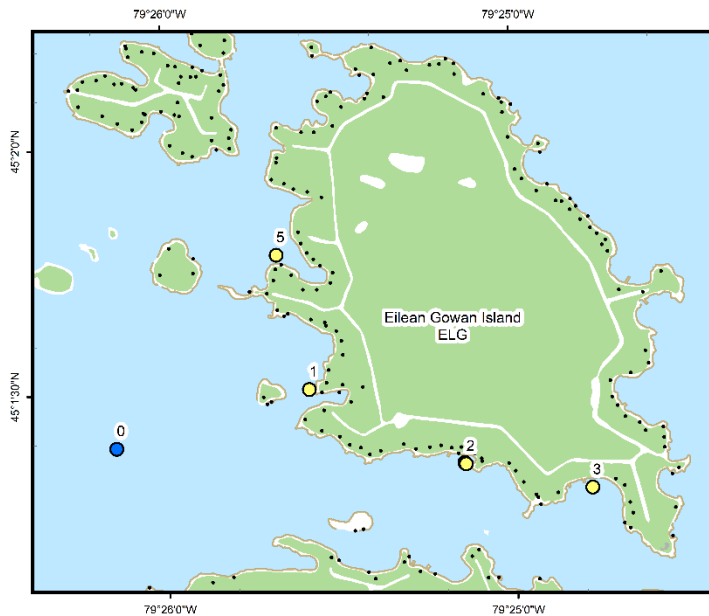


# Eilean Gowan Island (ELG)



## Area Description:

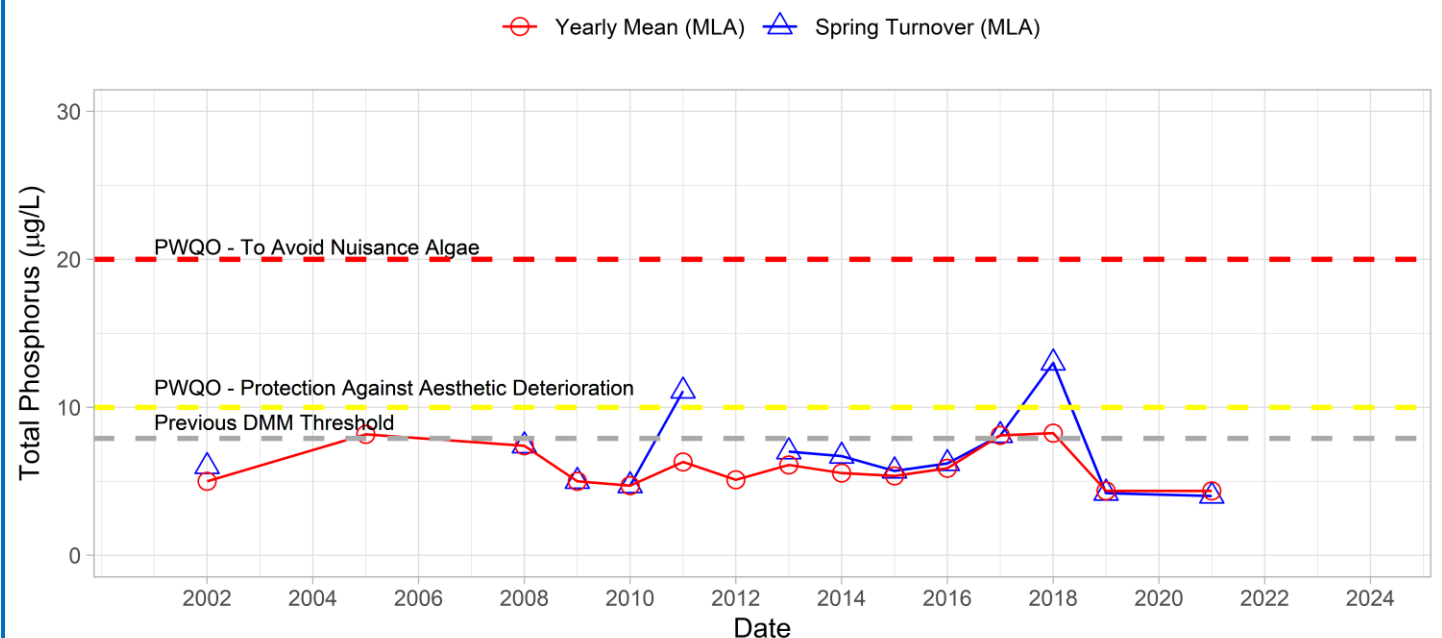
Eilean Gowan Island is located in the eastern part of Lake Muskoka. The island is developed with residential cottages, many of which appear to retain a well-vegetated shoreline. Some manicured lawns and tennis courts are located directly adjacent to the lake. The interior of Eilean Gowan Island is heavily forested and a stream outlets from the upland area to the lake at ELG-1. MLA monitoring of Eilean Gowan Island began in 2002.

Volunteer Recognition: Doug Tate, Beth Tate, Susan Murphy.

## 2021 Water Quality Results:

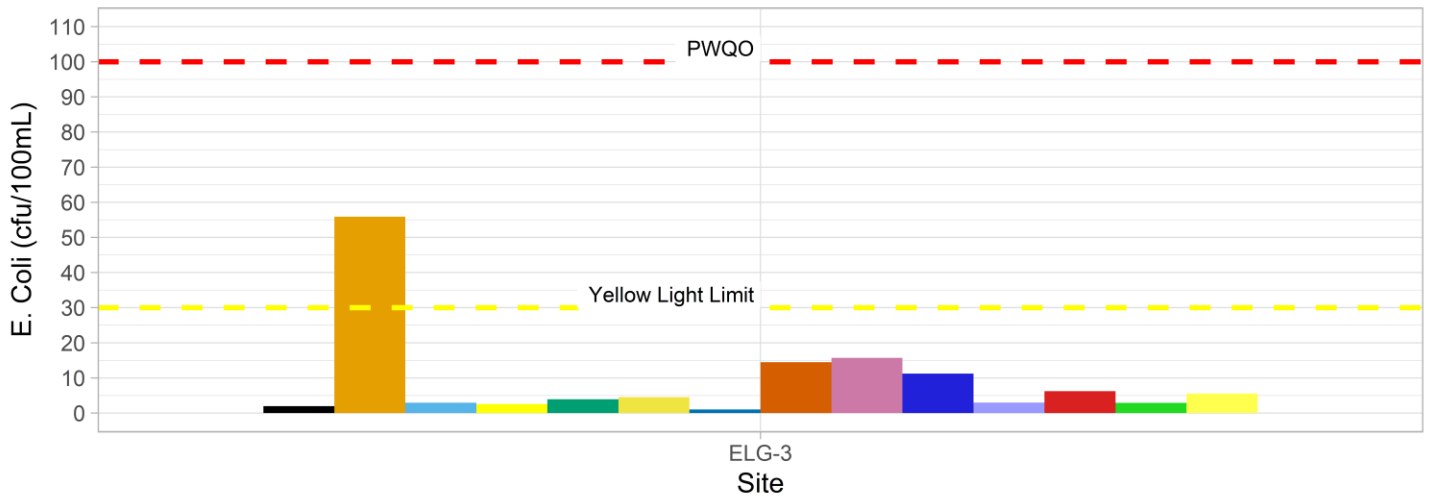
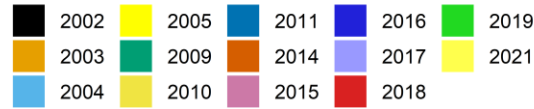
	Mean Secchi Disk (m)	Total Phosphorus ( $\mu\text{g/L}$ )		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
<b>ELG-0</b>	2.8	4.0	4.4		
<b>ELG-3</b>				6	123
<b>ELG-5</b>		3.3			

## Phosphorus at ELG-0



Note: Grubbs test indicates no outliers in Spring or Annual Total Phosphorus data.

### E. Coli Annual Geometric Mean at Eilean Gowan Island



Annual average and spring phosphorus concentrations at the deep-water station (ELG-0) were below the historic DMM threshold of 7.9 µg/L and the Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Nearshore monitoring of spring phosphorus concentrations at EAS-5 were the lowest on record since monitoring at the site began in 2018. Average annual Secchi disk depth (2.78 m) was consistent with previous monitoring (2.0 – 5.25 m). *E. coli* counts in 2021 were well below the MLA trigger threshold of 30 cfu/100mL at ELG-3. **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**