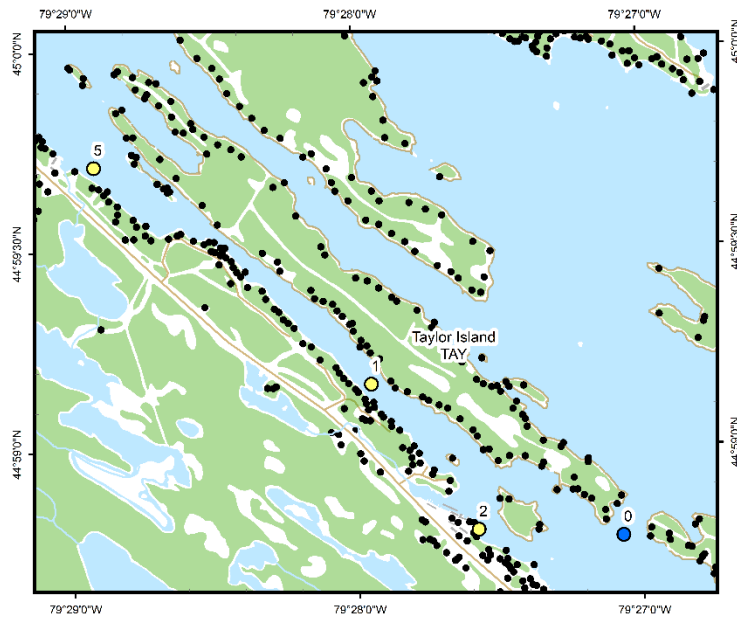


# Taylor Island (TAY)



## Area Description:

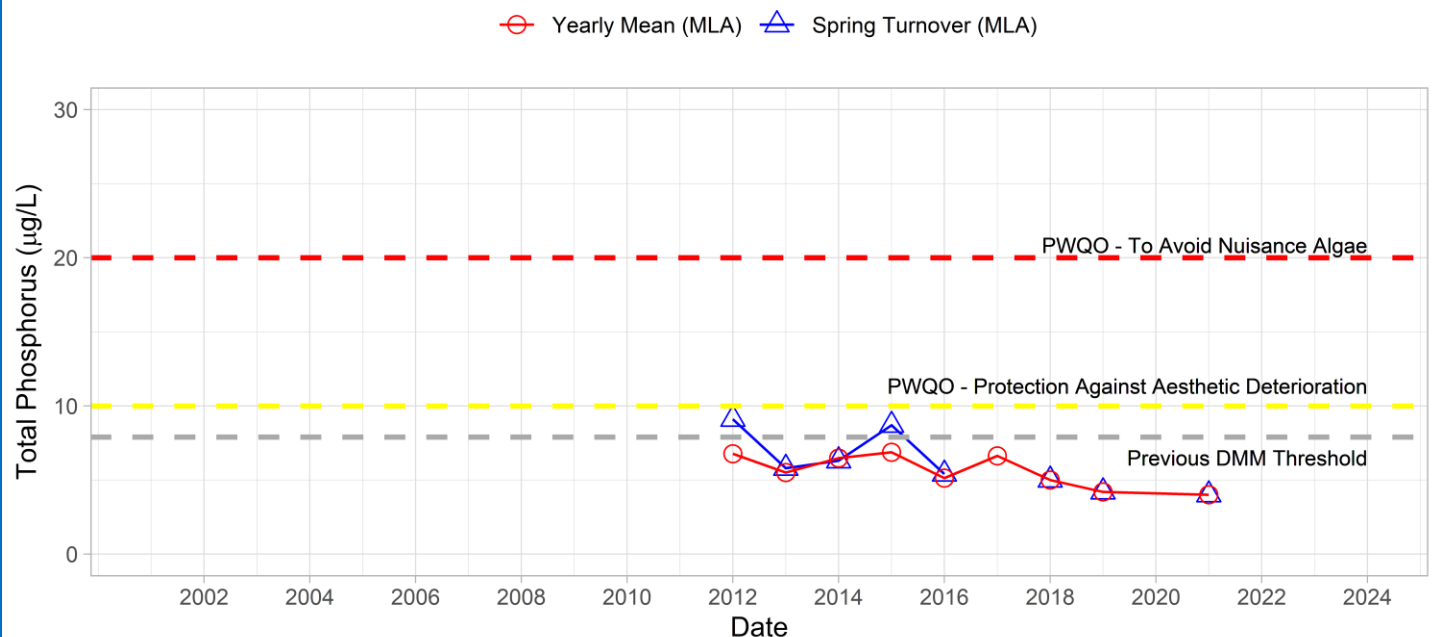
Taylor Island is a long, narrow, moderate-highly developed island in the main basin of Lake Muskoka. The island is approximately 76 ha in size which despite development retains most of the natural shoreline vegetation. Two wetland streams outlet into Lake Muskoka in this area. Nearshore monitoring station TAY-2 is located adjacent to a marina west of Denison Island. MLA monitoring of Taylor Island began in 2012.

Volunteer Recognition: Carol Hoskins, Sheila Robinson, George Fallis, Stephen Sims, Mark & Sandy Brosch.

## 2021 Water Quality Results:

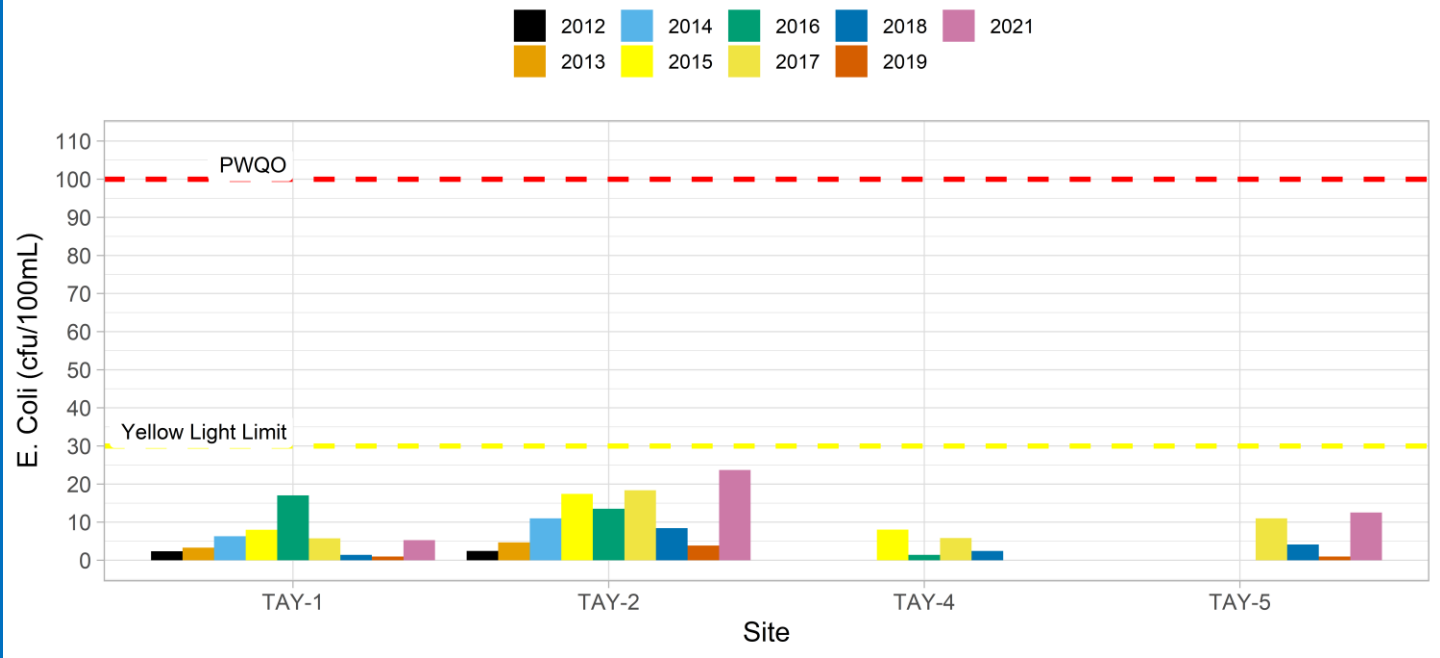
	Mean Secchi Disk (m)	Total Phosphorus ( $\mu\text{g/L}$ )		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
TAY-0	3.15	4.0			
TAY-1				5	66
TAY-2		7.2	8.6	24	112
TAY-5		4.9		13	78

## Phosphorus at TAY-0



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

### E. Coli Annual Geometric Mean at Taylor Island



The spring phosphorus concentration at the deep-water station (TAY-0) in 2021 was the lowest on record and below the historic DMM threshold of 7.9 µg/L and Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Nearshore monitoring spring phosphorus concentration at TAY-2 was within the range of variability of previous monitoring years, however annual average was the highest on record as a result of a single elevated value (13.6 mg/L) collected during a significant rain event of June 27<sup>th</sup>, 2021. *E. coli* counts at TAY-1, TAY-2, and TAY-5 remained below the MLA stoplight limit, elevated concentrations in 2021 were the result of high storm event sampling values in June. Average annual Secchi disk depth (3.15 m) was consistent with previous monitoring (2.18 – 5.3 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**