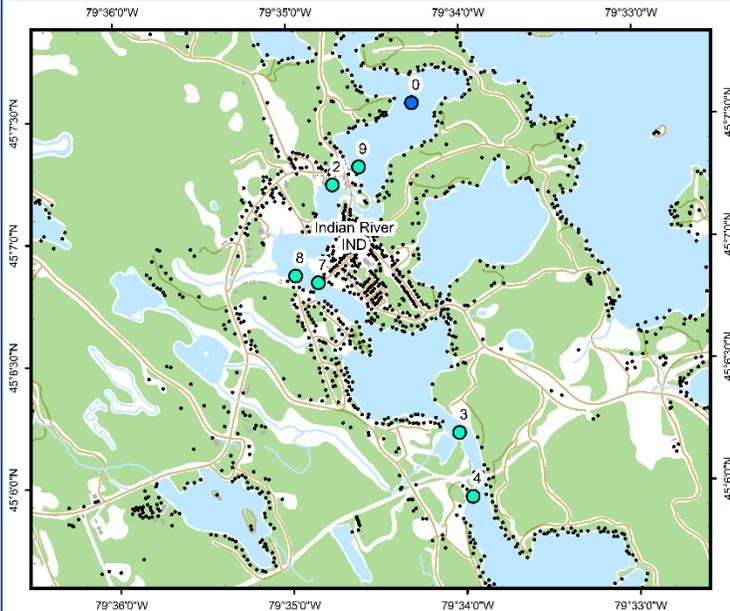




Indian River (IND)



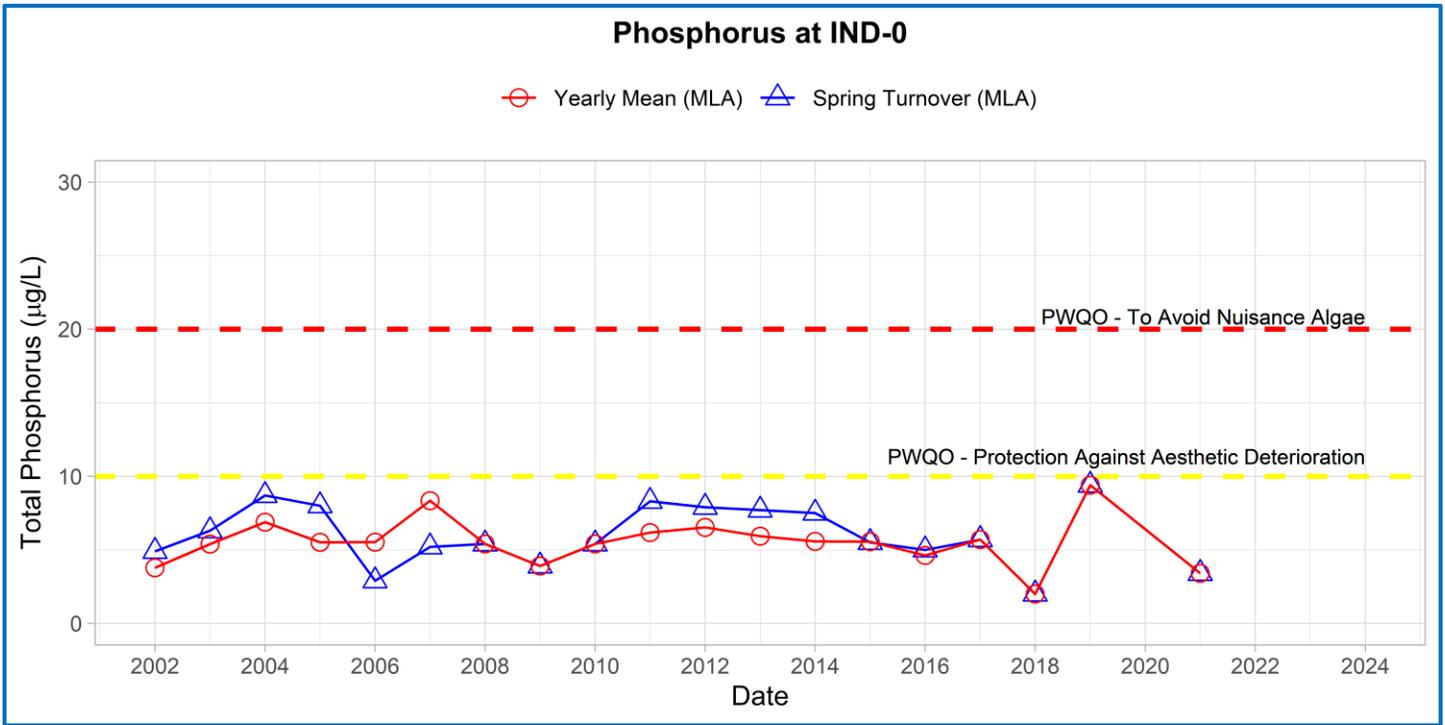
Area Description:

The Indian River connects Lake Rosseau to Mirror Lake and Lake Muskoka. The river flows through and receives stormwater drainage from the urbanized area of Port Carling, which is highly developed. It also has a locks system, several marinas and numerous commercial and residential properties. A large wetland is located adjacent to the river. MLA monitoring of the Indian River began in 2002.

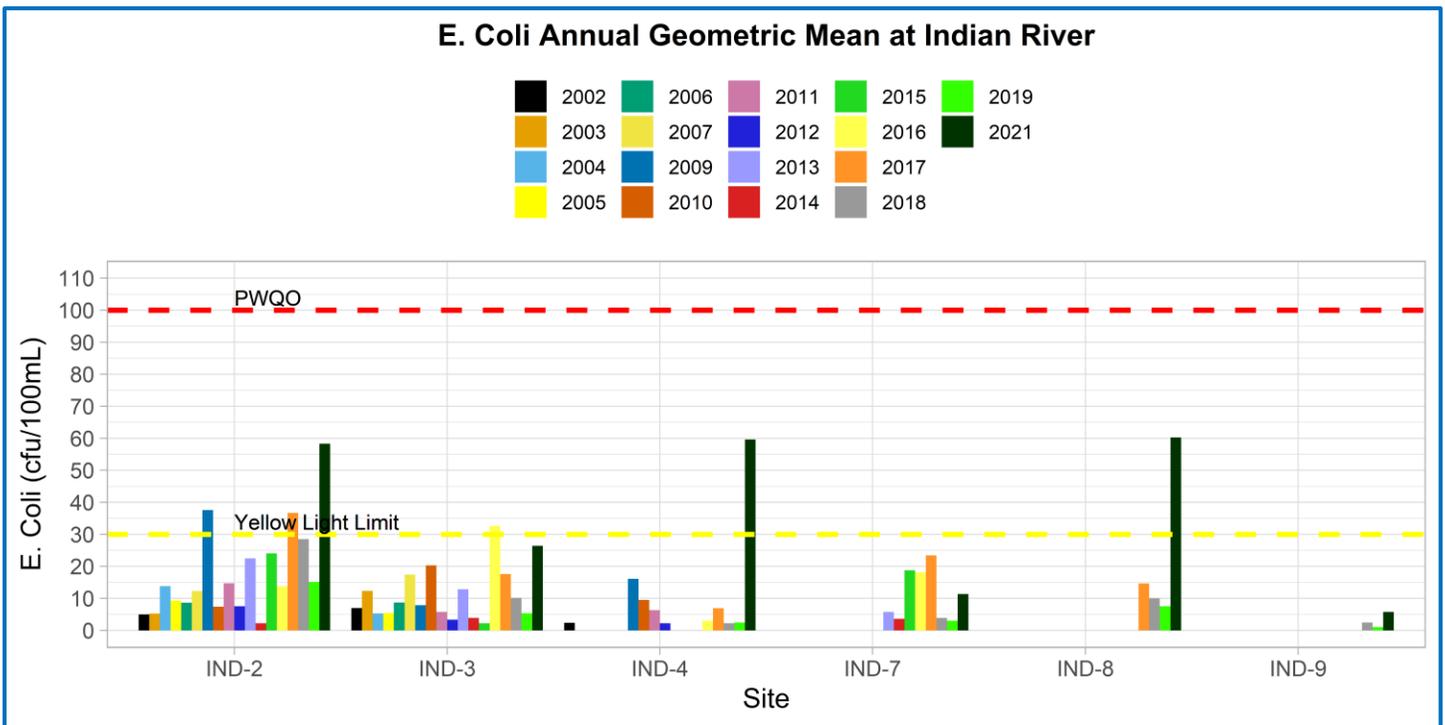
Volunteer Recognition: Jane Armstrong, Susan Carson, Ian Turnbull, Dianne Turnbull, and Chris Vandergrift.

2021 Water Quality Results:

	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100mL)	Total Coliforms Yearly Geometric Mean (cfu/100 mL)
		Spring Turnover	Yearly Mean		
IND-0	3.3	3.4			
IND-2				58	172
IND-3				26	115
IND-4				60	149
IND-7		16.4	16.0	11	107
IND-8		11.4		60	162
IND-9		5.4		6	37



Note: Grubbs test indicates data collected no outliers in the spring or annual average phosphorus data.



In 2021, annual average and spring phosphorus concentrations at the deep-water station (IND-0) were below Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and prevention of Nuisance Algal Growth (20 µg/L). Nearshore monitoring of spring phosphorus concentration at IND-9 was within the range of variability of previous monitoring. Phosphorus concentrations at IND-7 and 8 were elevated relative to previous monitoring data, however all samples were collected during recorded storm events which was not the case in previous years and may have skewed the 2021 results. *E. coli* counts at IND-2, 4 and 8 were above the yellow light trigger established by the MLA. Average annual Secchi disk depth (3.3 m) was consistent with previous monitoring (2.0 – 5.6



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m). Based on a concentration above Provincial and DMM guidelines we have changed Gullwing Lake to a yellow light. **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**