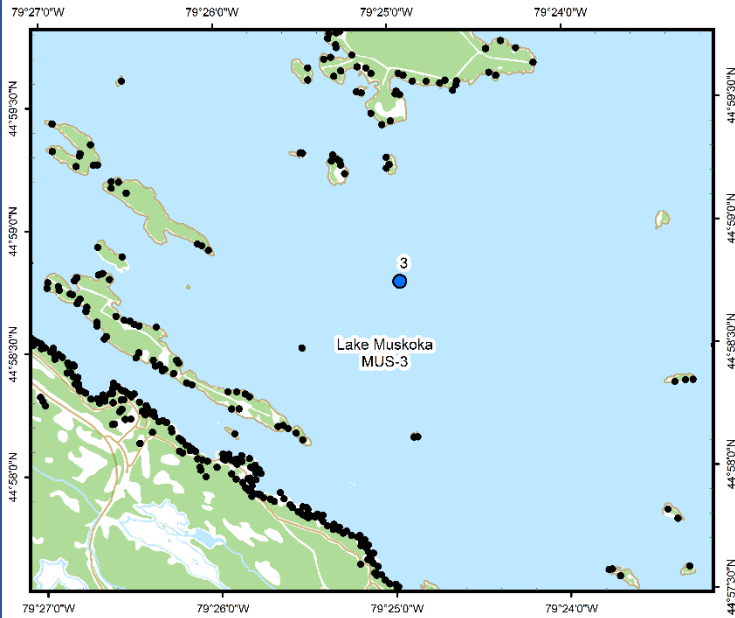


Lake Muskoka (MUS-3)



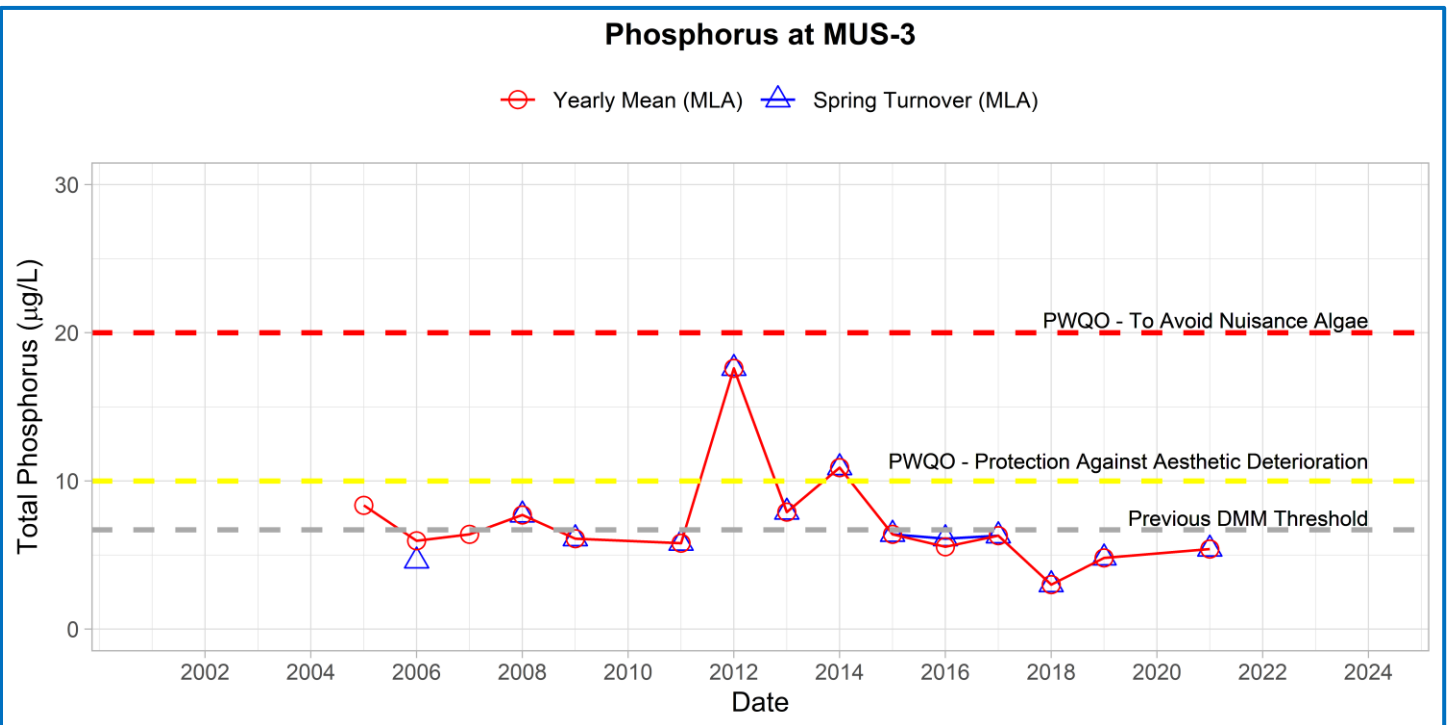
Area Description:

Lake Muskoka is the largest inland lake within the District of Muskoka. The lake has a surface area of 107.55 km² and maximum water depth of 67 m. The main basin of Lake Muskoka has a watershed area of 130.41 km² with approximately 6% of the watershed being covered by wetlands. The lakes main outflow is into the Moon River through Bala Bay. MLA monitoring of Lake Muskoka began in 2005.

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

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		
MUS-3	3.2	5.4			



Note: Grubbs test indicates 2012 spring phosphorus data was considered an outlier.



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The spring phosphorus concentration at the deep-water station (MUS-3) was below the historic DMM threshold of 6.7 $\mu\text{g/L}$ and Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 $\mu\text{g/L}$) and Nuisance Algal Growth (20 $\mu\text{g/L}$). Average annual Secchi disk depth (3.2 m) was consistent with previous monitoring (2.4 – 3.95 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**