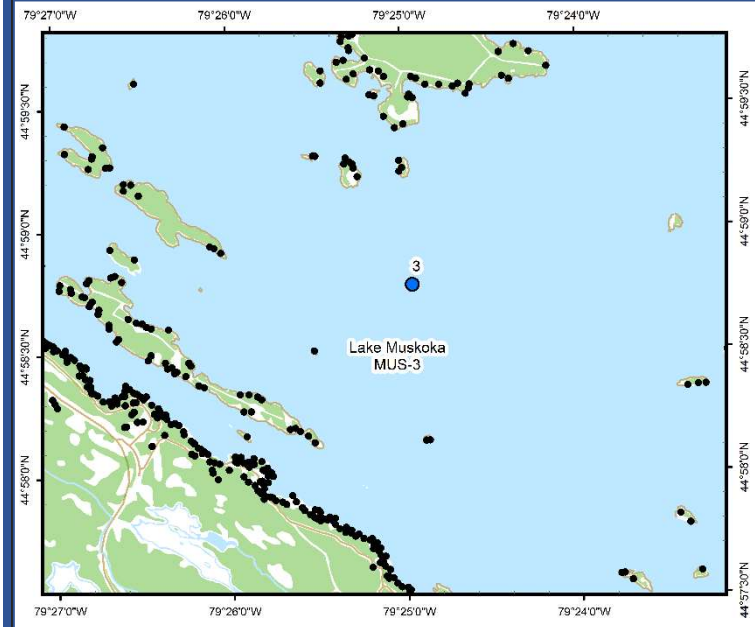
Lake Muskoka (MUS-3)



Area Description:

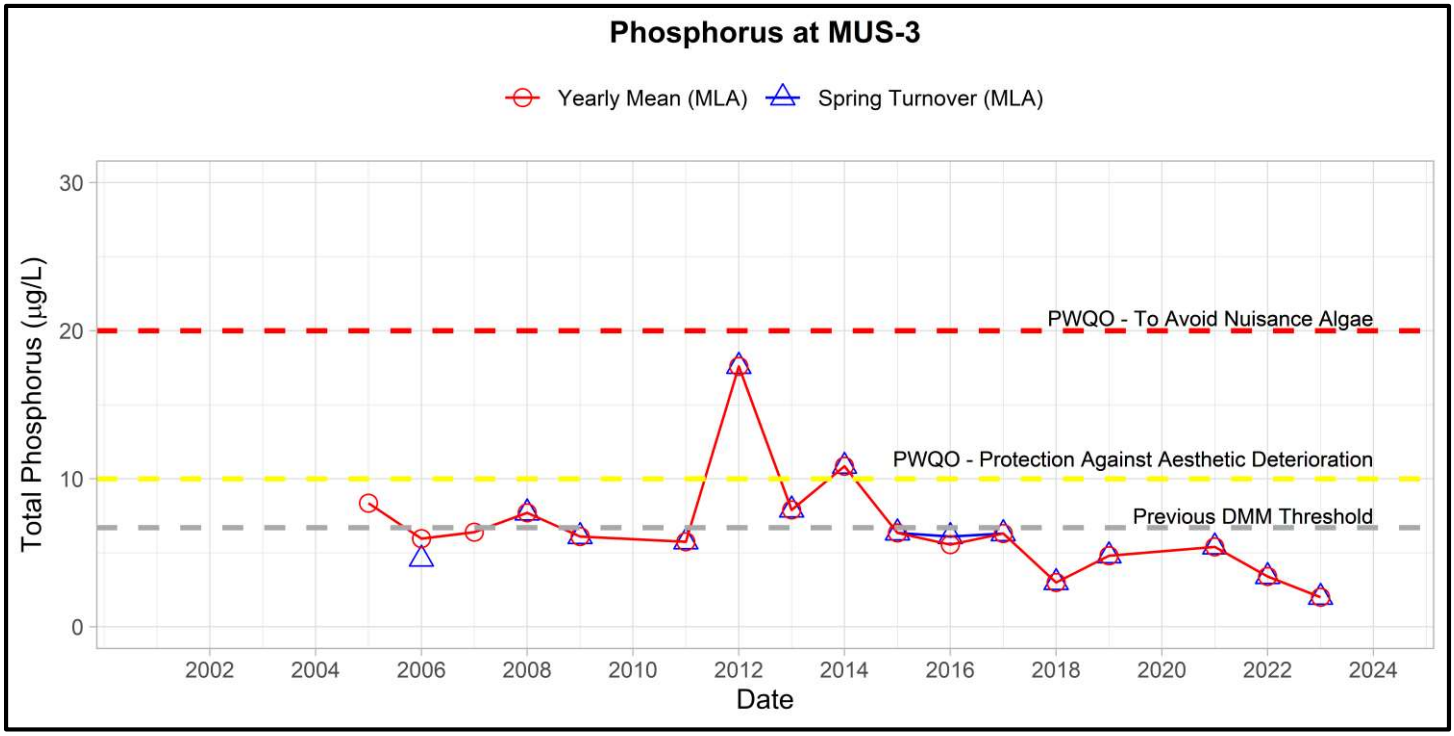
Lake Muskoka is the largest inland lake within the District of Muskoka. The lake has a surface area of 107.55 km^2 and maximum water depth of 67 m. The main basin of Lake Muskoka has a watershed area of 130.41 km^2 with approximately 6% of the watershed being covered by wetlands. The lakes main outflow 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.

2023 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	2.6	2.0			

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



The spring phosphorus concentration at the deep-water station (MUS-3) was below the historic DMM threshold of 6.7 µg/L and Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). Average annual Secchi disk depth (2.6 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.**