



Area Description:

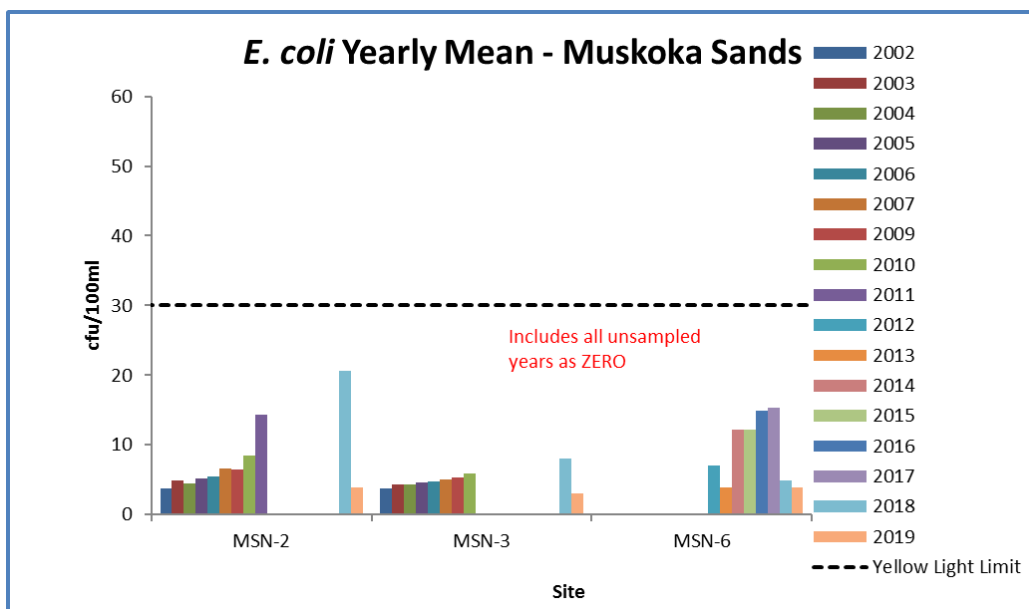
The Muskoka Sands sampling area is located in southeastern Lake Muskoka at the confluence with the Hoc Roc River. This area has a high intensity of development with a large resort and golf course, along with a high density of residential properties and roads adjacent to the lake. The Hoc Roc River flows through agricultural, industrial, residential, and natural wetland areas before it drains into a shallow bay. Dominant northwest winds and a considerable fetch would subject this area to heavy onshore wave action. Monitoring started in 2003. All stations shown may not be sampled each year.

Volunteer Recognition: Carol Hoskins, Charlotte Hoskins and Carroll Manol.

Muskoka Sands (MSN)

2019 Water Quality Results: (Note: Hatched cell signifies not tested for in 2019)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		<i>E. coli</i> Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)	DOC Yearly Mean
		Spring Turnover	Yearly Mean			
MSN-0	3.9					
MSN-2				3.9	60.9	
MSN-3				3.0	45.7	
MSN-6				3.9	64.9	
MSN-8		6.5	6.5			



Summary and Recommendations:



Phosphorous samples were not collected at MSN-0 in 2019. MSN-8 is a new station added in 2017 and higher phosphorus results at this station in 2017 and 2018 can be indicative of inputs from the watercourse in this location, however, 2019 spring concentrations were substantially lower than 2018 (20.0 µg/L). *E. coli* results at MSN-2, MSN-3 and MSN-6 in 2019 were all below the MLA limits (details in report Section 3). Secchi measurements vary through the sampling years between 1.0 and 5.25 m (2010). **Beacon recommends that sampling continue to monitor long-term trends, with special attention to Station MSN-8.**