



Area Description:

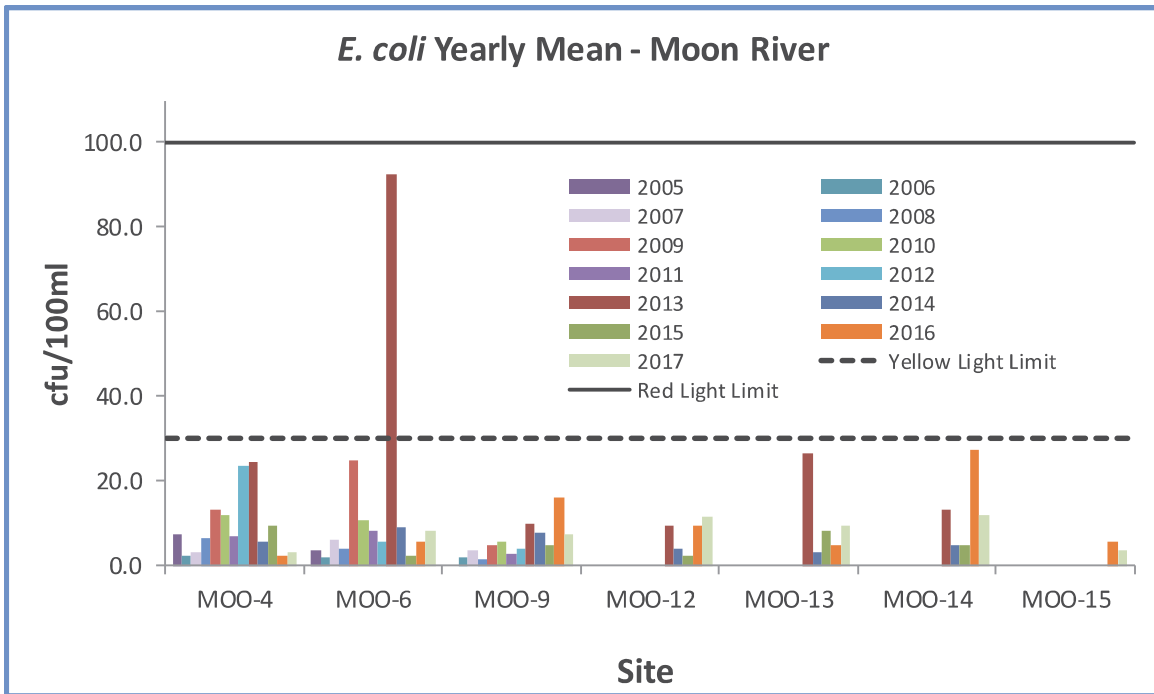
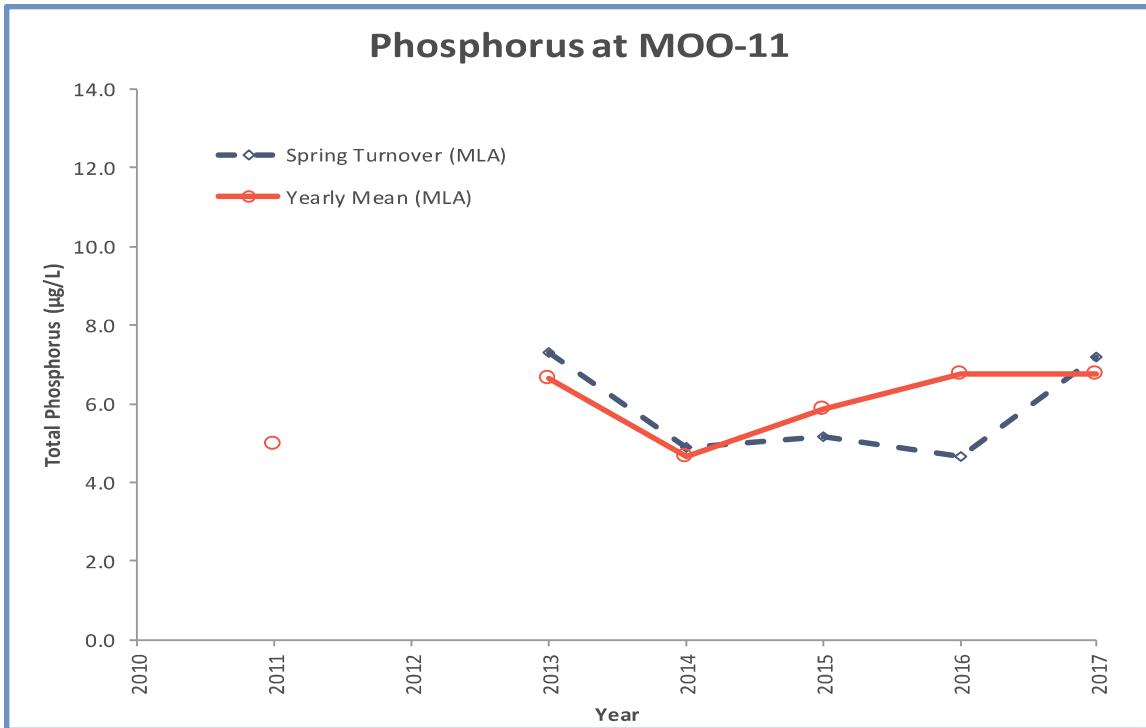
The Moon River is the main outlet of the Muskoka Watershed, flowing from Lake Muskoka to Georgian Bay. The river receives overland drainage from the Town of Bala and its urban area, including many roads and the developed shoreline. Approximately 12 creeks outlet into this sampling area, several of which drain wetlands. All stations shown may not be sampled each year.

Volunteer Recognition: Barry Fisher, Hayley Masson, Jessica Ylanko, Cathy Malcomson, Carissa Wong, Cathy Brown, Scott Koshman, Hannu Ylanko, Bruno Polewski, Dave Macintosh and Barbara Macintosh.

Moon River (MOO)

2017 Water Quality Results: (Note: Hatched cell signifies not tested for in 2017)

Station	Mean Secchi Disk (m)	Total Phosphorus (µg/L)		E. coli Yearly Geometric Mean (cfu/100 ml)	Total Coliform Yearly Geometric Mean (cfu/100 ml)
		Spring Turnover	Yearly Mean		
MOO-1		8.4	6.9		
MOO-4		8.8	6.7	3.0	23.3
MOO-6		7.0	7.0	8.0	25.7
MOO-9		5.2	5.7	7.5	42.6
MOO-11	3.53	7.2	6.8		
MOO-12			10.0	11.3	46.7
MOO-13			11.2	9.6	63.6
MOO-14			6.0	11.8	40.7
MOO-15			6.4	3.6	41.7



Summary and Recommendations:



Yearly mean phosphorus concentrations at MOO-11 in 2016 and 2017 were the highest recorded to date (both 6.8 µg/L). The new station (MOO-15) established last year has similar yearly mean phosphorus results in 2017. Although spring turnover phosphorus results at all stations in 2016 were below those in 2015, results in 2017 are generally elevated above the 2015 and 2016 results. That said, the yearly mean phosphorus results at all stations were generally consistent with years previous. *E. coli* levels were all below the MLA stoplight limits (details in report Section 3) in 2017. Secchi measurements also remain stable through sampling years, varying between 3.0 and 4.0. **Beacon recommends that all sampling be continued to monitor long-term trends.**