



Area Description:

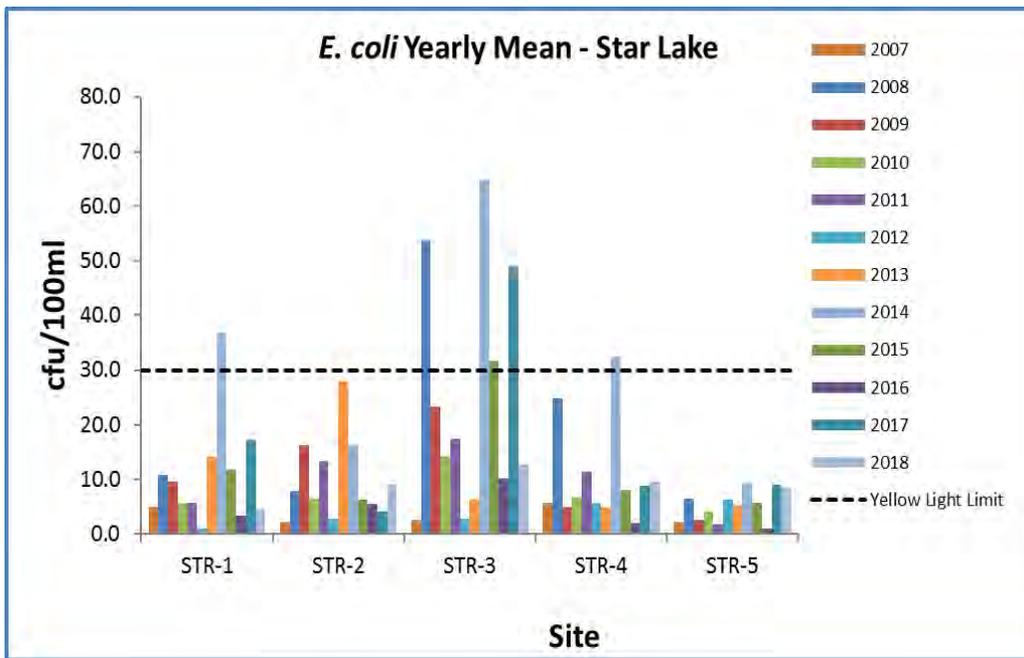
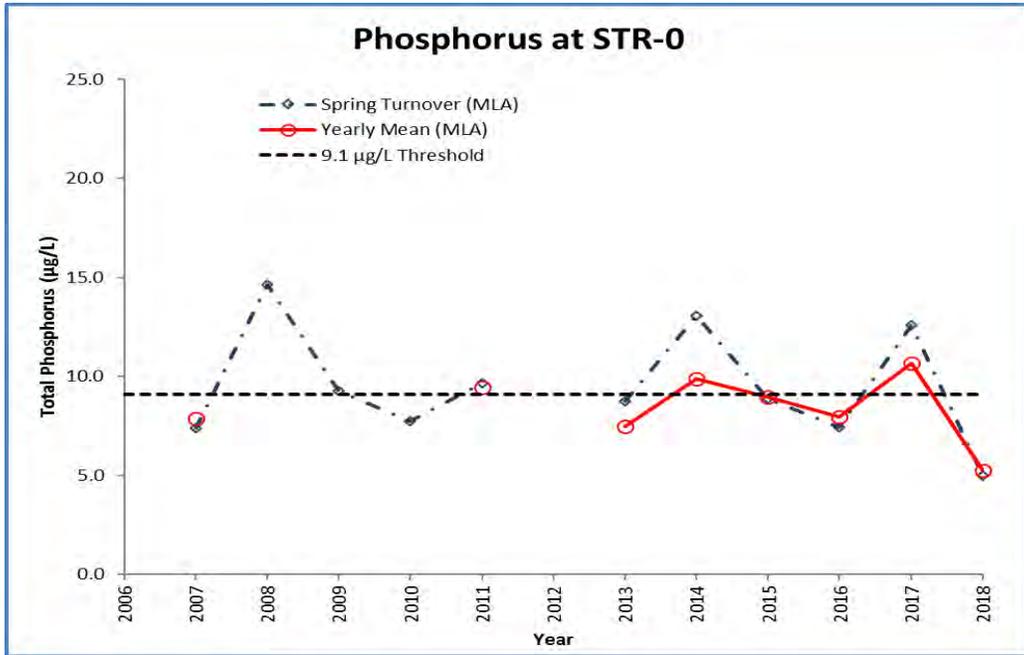
Star Lake is located in the Township of Seguin and is approximately 158 ha in area with a maximum depth of 23 m. This lake has a moderate to high level of shoreline development in the form of residential properties. Many of these properties maintain natural riparian vegetation along their shorelines, but some have extensive clearings and lawns. There is a large agricultural area adjacent to the northwestern shore and several roads located in close proximity to the lake. This lake has several inflow and outflow creeks, with limited wetland areas in the upper watershed. Monitoring started in 2007. All stations shown may not be sampled each year.

Volunteer Recognition: Karen Gillies, Sara Slater, Melaney Kerley, Jim Kerley, Neil Gillies, and Harold Slater.

Star Lake (STR)

2018 Water Quality Results: (Note: Hatched cell signifies not tested for in 2018)

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		
STR-0	2.0	5.0	5.3		
STR-1				4.5	137.4
STR-2				9.0	113.7
STR-3				12.8	198.4
STR-4				9.5	215.7
STR-5				8.6	198.4



Summary and Recommendations:



Yearly mean and spring phosphorus concentrations at the deep station (STR-0) were below the DMM threshold of 9.1 µg/L in 2018, and the lowest recorded to date. *E. coli* mean concentrations in 2018 at all stations were below the MLA stoplight limits (details in report Section 3). Re-tests were required at STR-1, STR-3, STR-4 and STR-5 following the final sampling in August. Volunteers noted that during the August 24th sampling event at STR-3, the old beaver dam was submerged due to the high water levels. STR was given a green stoplight in 2018, changed from a yellow stoplight in 2017. Secchi depth measurements vary across the sampling years. **Beacon recommends that all sampling be continued to monitor long-term trends.**