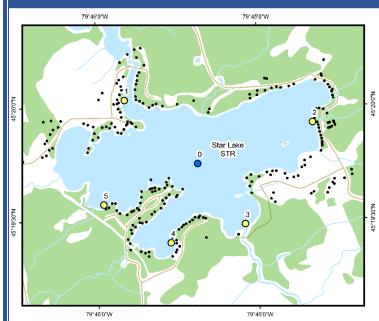




Star Lake (STR)



Area Description:

Star Lake is a moderately developed lake located within the Township of Seguin. The lake has a surface area of 1.58 km² and a maximum depth of 23 m. Shoreline development on Star Lake includes residential properties some of which have extensive clearings and lawns, particularly in the East. There is also a substantial agricultural development immediately adjacent to the lake in the northwest. This lake has several inflow and outflow creeks including a connection with Mutton Lake to the North. MLA monitoring of Star Lake began in 2007

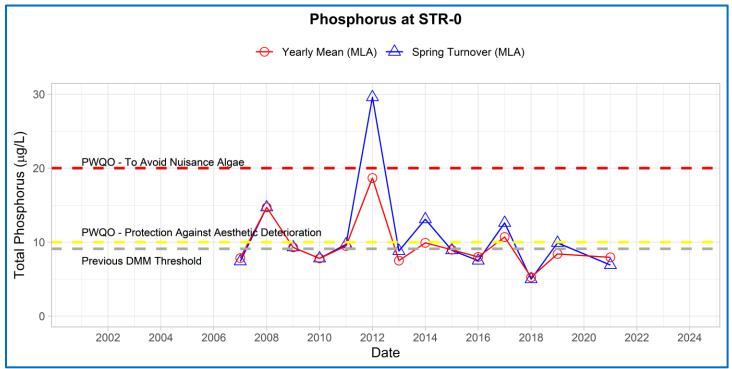
Volunteer Recognition: Karen Gillies, Melaney Kerley, Dawn Sandzih, Kelly Mazza and Jim Kerley.

2021 Water Quality Results:

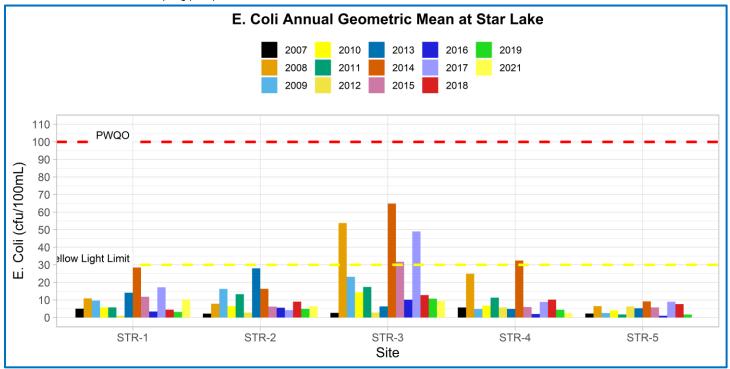
	Mean Secchi Disk (m)	Total Phosphorus (μg/L)		E. coli Yearly	Total Coliforms
		Spring Turnover	Yearly Mean	Geometric Mean (cfu/100mL)	Yearly Geometric Mean (cfu/100 mL)
STR-0	2.6	6.9	8.4		
STR-1				10	173
STR-2				6	137
STR-3				9	138
STR-4				2	149
STR-5				3	109







Note: Grubbs test indicates the spring phosphorus concentration collected in 2012 is considered an outlier.





Annual average and spring phosphorus concentrations at the deep-water station (STR-0) were below the historic DMM threshold of 9.1 µg/L and Provincial Water Quality Monitoring Objectives for Protection Against Aesthetic Deterioration (10 µg/L) and Nuisance Algal Growth (20 µg/L). *E coli* samples collected in 2021 at all stations were below the MLA stoplight limits. Average annual Secchi disk depth (2.6 m) was consistent with previous monitoring (1.40 - 4.45 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**