



### Area Description:

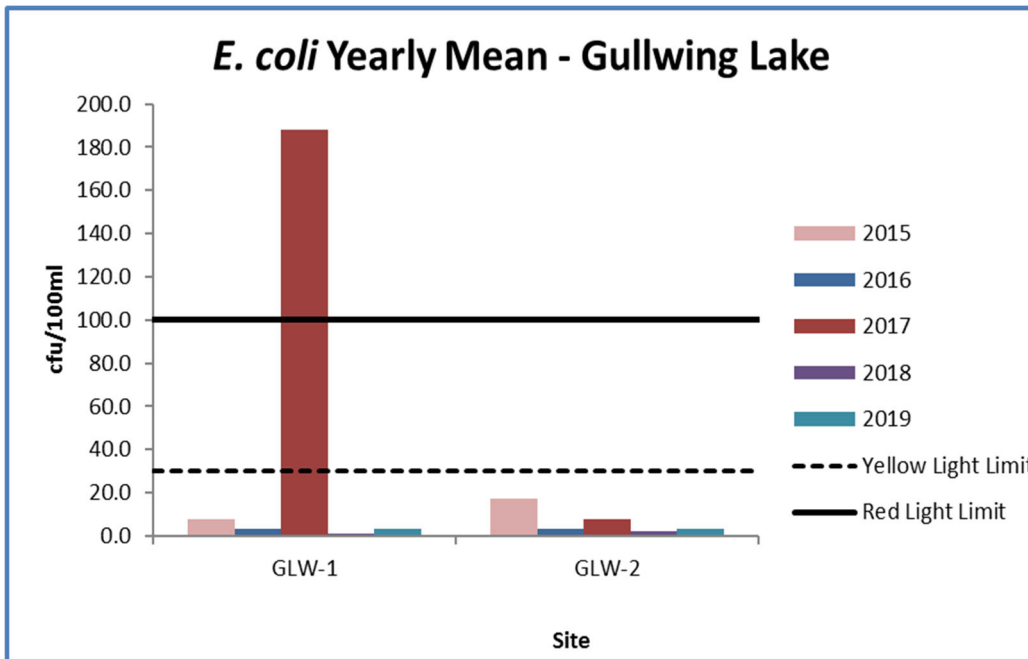
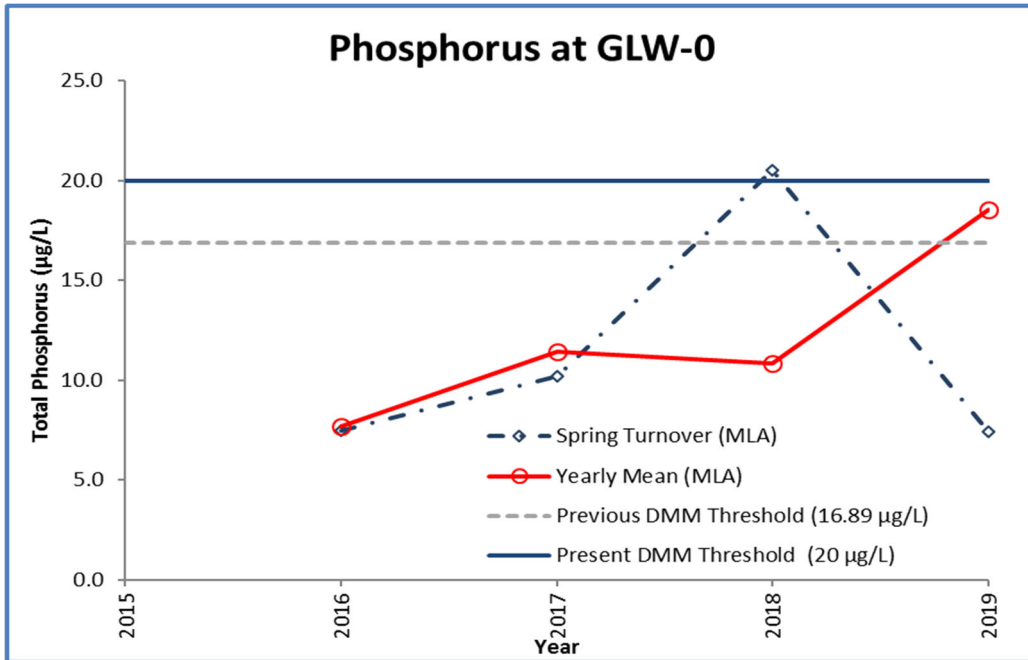
Gullwing Lake is a lake of moderate size (82 hectares) located just south of Torrance. The maximum depth is 9 m and the mean depth is 4 m. The watershed for the lake is 5.71 km<sup>2</sup> and was historically listed as having moderate sensitivity by the District Municipality of Muskoka. Development around the shoreline varies from none on Crown Land (25%) to shoreline residential and a seasonal vacation park located in the most northwestern section. All stations shown may not be sampled each year.

**Volunteer Recognition: Kellie Dobson, Kim Enns, Donna DiLello, and Jim Dobson.**

## Gullwing Lake (GLW)

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

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		
GLW-0	2.0	7.4	18.6		
GLW-1		8.2	8.4	3.4	40.8
GLW-2		5.8	8.0	3.2	67.7



## Summary and Recommendations:



Although the historic DMM threshold of 16.89 µg/L was exceeded in 2018, the 2016, 2017 and 2019 spring phosphorous levels were below this threshold, and all other readings remain well below the present DMM threshold (20 µg/L). The yearly phosphorus mean at GLW-0 shows an increasing trend. The 2019 yearly mean phosphorus average at GLW-0 is the highest recorded due to the highest sample result to date in August (51.5 µg/L). Additionally, the annual average phosphorus exceeded the spring phosphorus levels at each of the nearshore stations in 2019. Because of the increasing yearly mean phosphorus trend at GLW-0, and the phosphorus levels at the nearshore stations, Gullwing Lake remains classified as yellow in 2019. The *E. coli* yearly mean at GLW-1 and GLW-2 remained below the MLA stoplight limits (details in report Section 3). Secchi measurements vary through the sampling years between 1.5 (2018, 2019) and 3.15 m (2016). **Beacon recommends that sampling continue to monitor long-term trends.**