



Area Description:

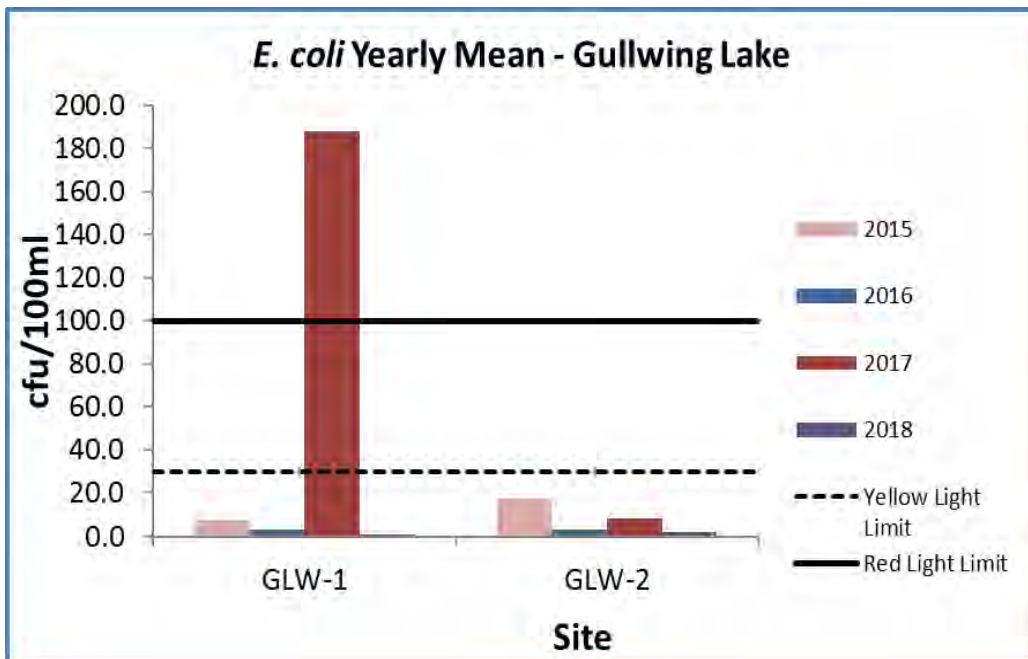
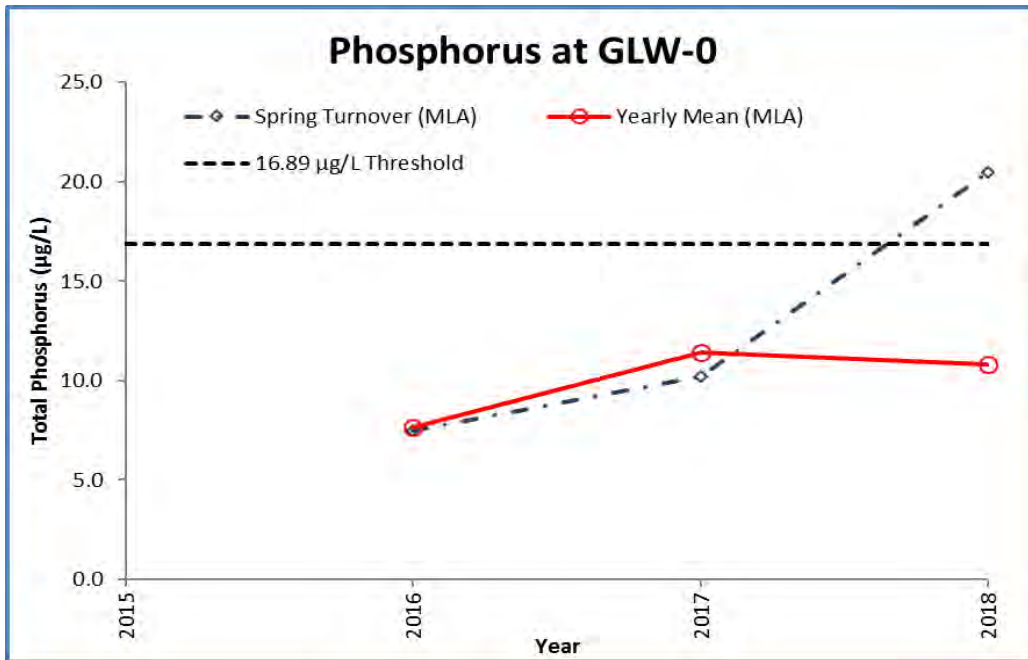
Gullwing Lake is a lake of moderate size (82 hectares) located just south of Torrance. The maximum depth is 9 m and the mean depth is 4m. The watershed for the lake is 5.71 km² and is listed as having moderate sensitivity by the District Municipality of Muskoka. Development around the shoreline varies 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 and Donna Di Lello.

Gullwing Lake (GLW)

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

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)
		Spring Turnover	Yearly Mean		
GLW-0	2.1	20.5	10.8		
GLW-1		17.0	10.5	1.0	143.1
GLW-2		19.0	9.8	2.0	130.2



Summary and Recommendations:



The GLW-0 sampling station was established in 2016 and phosphorus concentrations remained below the historic DMM threshold of 16.89 µg/L through 2016 and 2017 but exceeded it in 2018. The yearly phosphorus mean at GLW-0 shows an increasing trend in the last 2 years. The spring phosphorus at GLW-0 was >20µg/L, causing it to be classified as yellow in 2018. Although the spring phosphorus concentrations at GLW-1 and GLW-2 were the highest of the three years sampled, the yearly phosphorus means at these stations were the second lowest to date, resulting from low phosphorus levels at the last 2 sampling dates. The 2018 *E. coli* yearly mean for both GLW-1 and GLW-2 were well below the yellow light limit. The Secchi measurement was the lowest value measured to date. **Beacon recommends that sampling continue to monitor long-term trends.**