



Area Description:

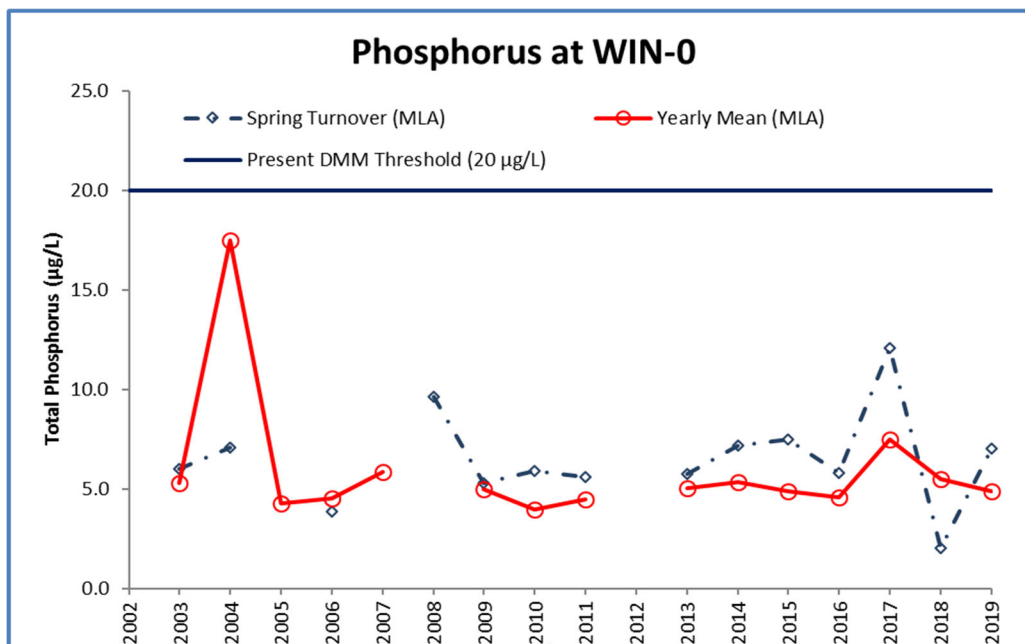
The Windermere village area in northern Lake Rosseau is a highly developed resort and residential area. There is a large resort complex, golf course, marina, and many residential properties. In addition, there is a significant amount of agricultural land nearby. Several creeks outlet into this area, one of which flows through farms fields and wetlands and enters the lake at the marina. Monitoring started with the original program in 2003. All stations shown may not be sampled each year.

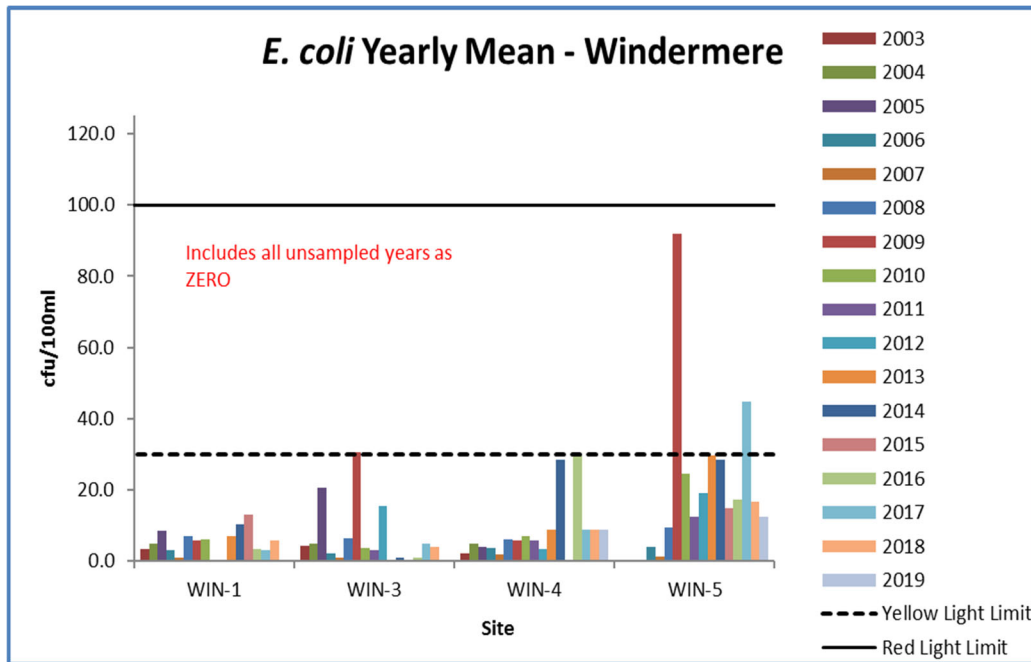
Volunteer Recognition: Katherine Seybold, Bob McCabe, Sandy Baptist and Peter Seybold.

Windermere (WIN)

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) | DOC Yearly Mean |
|---------|----------------------|-------------------------|-------------|--|---|-----------------|
| | | Spring Turnover | Yearly Mean | | | |
| WIN-0 | 2.8 | 7.0 | 4.9 | | | |
| WIN-1 | | 10.8 | 15.2 | | | |
| WIN-3 | | 6.0 | 4.7 | | | |
| WIN-4 | | 7.4 | 5.6 | 8.9 | 50.1 | |
| WIN-5 | | 12.0 | 11.4 | 12.3 | 37.9 | |
| WIN-7 | | 14.1 | 16.5 | | | |
| WIN-8 | | 15.6 | 15.1 | | | |





Summary and Recommendations:



All spring phosphorus concentrations at WIN-0 remain well below the present DMM threshold (20 µg/L). The spring turnover phosphorus value at WIN-1 was the second lowest value of 9 years of sampling data. WIN-7 had the lowest spring turnover and yearly mean phosphorus concentrations of 6 years of sampling to date and the yearly mean phosphorus concentration at WIN-8 was tied for the lowest of 6 years of sampling to date. That said, the nearshore phosphorus levels at WIN-1 and WIN-5 were substantially higher than the deep-water levels, resulting in Windermere continuing to be classified as yellow in 2019. Similar to the 2018 results, phosphorus concentrations generally continued to be higher upstream at WIN-7 than downstream at WIN-8. *E. coli* yearly mean counts were below the MLA Yellow Light Limit (details in report Section 3) at all stations in 2019. Secchi measurements vary through sampling years, ranging between 2.5 and 5.7 m (2014). A Harmful Algae Bloom was reported in 2018 near WIN-1 and WIN will remain yellow until a Causation Study concludes that development is not the primary cause of the HAB. **Beacon recommends that all sampling be continued to monitor long-term trends.**