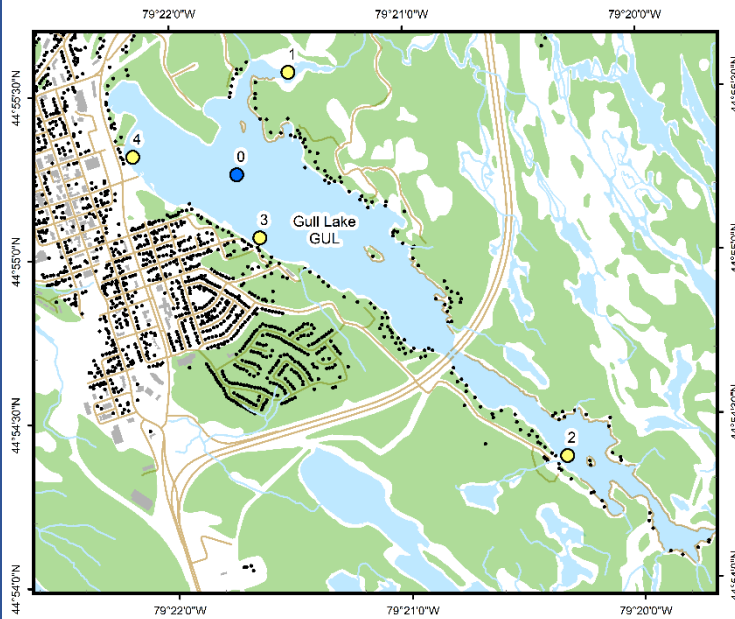




Gull Lake (GUL)



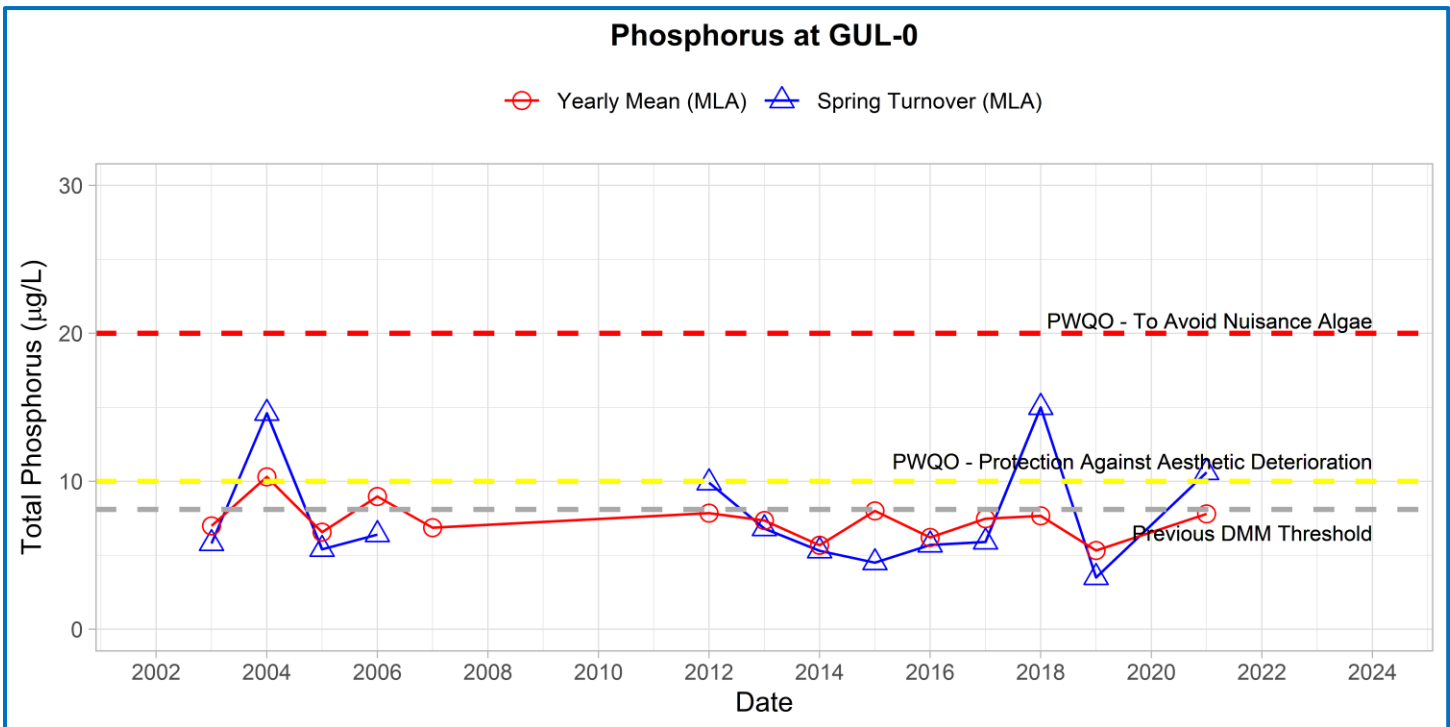
Area Description:

Gull Lake is a long, narrow lake with a surface area of 1.33 km² and a maximum depth of 7 m in the Town of Gravenhurst. Gull Lake receives inflow from Silver Lake at the south end along with nine creeks and overland runoff from the 3.6 km² watershed. The lake includes significant residential development from the Town of Gravenhurst, particularly in the northwest and Highway 11 crosses the lake at its midpoint. Gull Lake is not currently listed as vulnerable by the DMM. MLA monitoring of Gull Lake began in 2003.

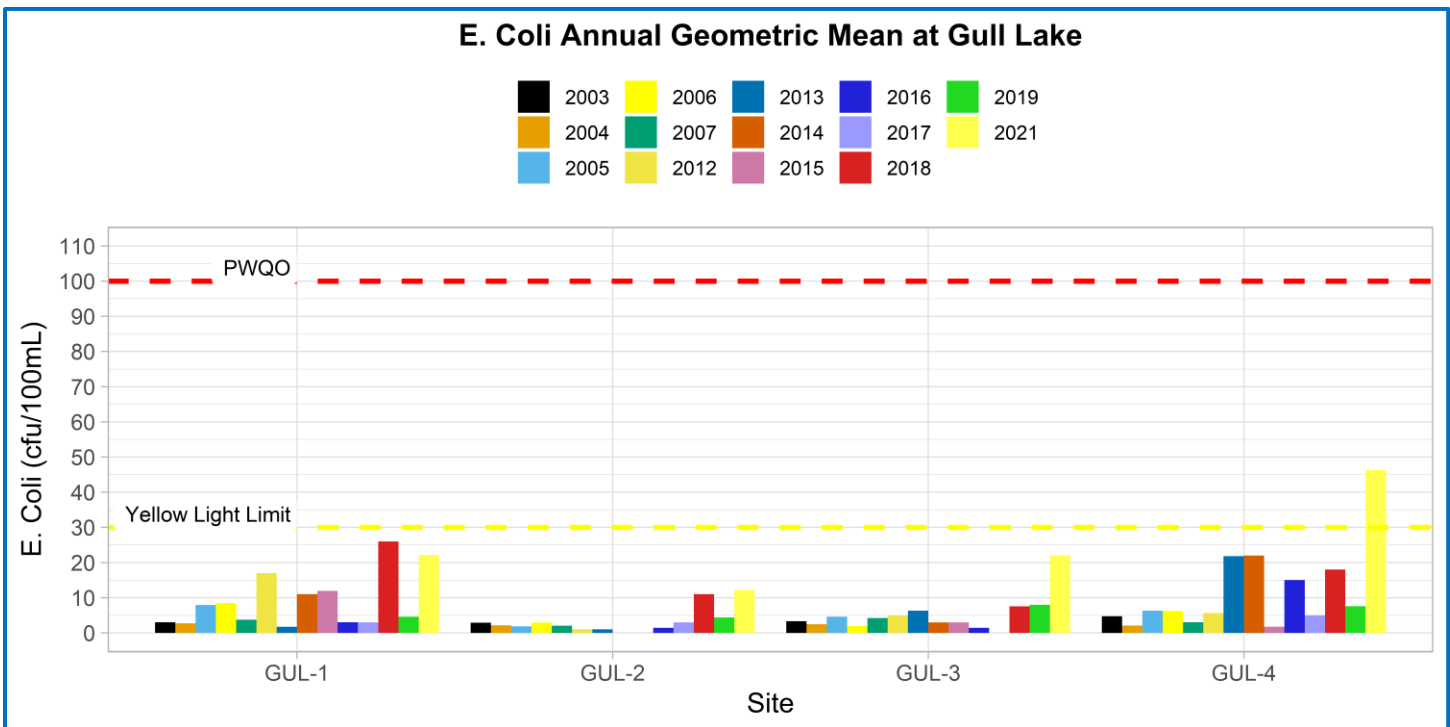
Volunteer Recognition: Bruce & Anne Elliot, Dave & Debbie Stephens, George & Patricia Catleogh.

2021 Water Quality Results:

| | Mean Secchi Disk (m) | Total Phosphorus (µg/L) | | E. coli Yearly Geometric Mean (cfu/100mL) | Total Coliforms Yearly Geometric Mean (cfu/100 mL) |
|--------------|----------------------|-------------------------|-------------|---|--|
| | | Spring Turnover | Yearly Mean | | |
| GUL-0 | 3.5 | 10.6 | 7.8 | | |
| GUL-1 | | | | 22 | 488 |
| GUL-2 | | | | 12 | 467 |
| GUL-3 | | | | 22 | 309 |
| GUL-4 | | | | 46 | 312 |



Note: Grubbs test indicates no outliers in Spring or Annual Total Phosphorus data.





The spring phosphorus concentration at the deep-water station (GUL-0) was above the historic DMM threshold of 8.1 µg/L and Provincial Water Quality Monitoring Objectives (PWQO) for Protection Against Aesthetic Deterioration (10 µg/L) but below the PWQO for Prevention of Nuisance Algal Growth (20 µg/L). No significant trend in total phosphorus were noted despite elevated concentrations in 2018 and 2021; ongoing monitoring is recommended to assess the recent fluctuations in spring TP. *E. coli* counts at GUL-4 were above the yellow light trigger established by the MLA. Average annual Secchi disk depth (3.5 m) was consistent with previous monitoring (2.5 – 4.8 m). **HESL recommends ongoing sampling to continue to monitor for long-term trends and emerging issues.**