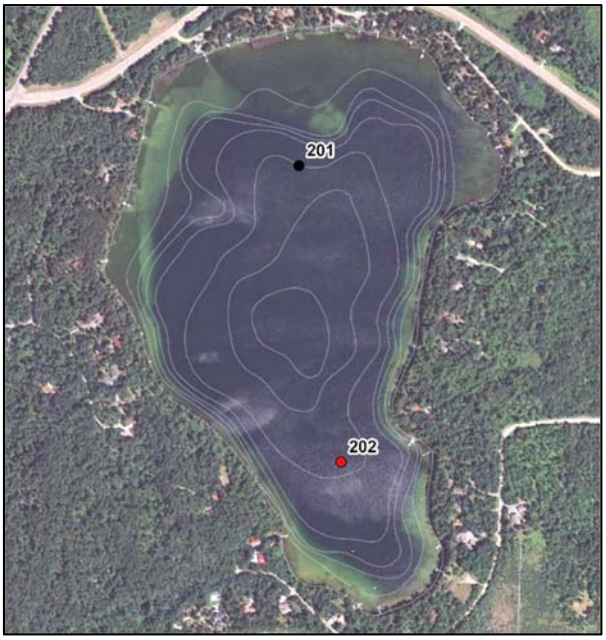
Gilmore Lake — Hubbard County

Summary

Gilmore Lake has excellent water quality that is better than the ecoregion average range. There is an improving long-term trend in transparency. Potential lake impacts could come from shoreline runoff, septic systems and the inlet to the lake. Residents can continue best management practices to protect the water quality into the future.



Lake Vitals

MN Lake ID:	29-0188-00
Ecoregion:	Northern Lakes and Forests
Major Drainage Basin:	Upper Mississippi River
Surface area (acres):	91
Littoral area (acres):	36
% Littoral area:	40%
Max depth (ft), (m):	54, 16.5
Inlets / Outlets:	1 inlet / 1 outlet
Public Accesses	0
Development Class:	Recreational Development
Aquatic Invasive Species:	None Listed

Water Quality Characteristics

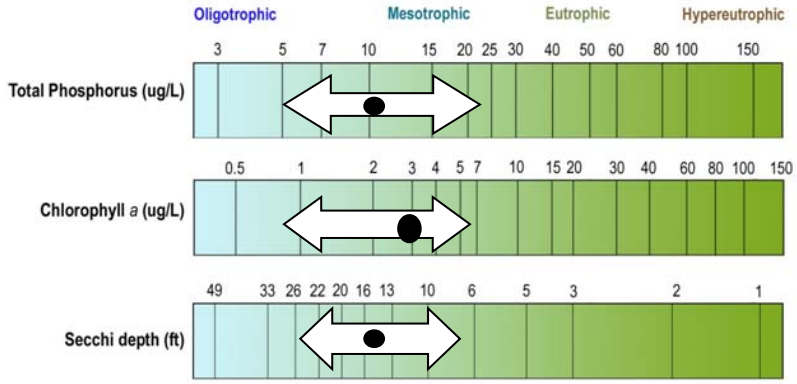
Years monitored: 2004- 2017

Parameters	Historical
Phosphorus Mean (ug/L):	10.3
Phosphorus Min (ug/L):	5.0
Phosphorus Max (ug/L):	22.0
Number of Observations:	43
Chlorophyll-a Mean (ug/L):	3.0
Chlorophyll-a Min (ug/L):	<1
Chlorophyll-a Max (ug/L):	7.0
Number of Observations:	43
Secchi Depth Mean (ft):	15.8
Secchi Depth Min (ft):	7.5
Secchi Depth Max (ft):	25.0
Number of Observations:	43

Trophic State Index

Trophic State: Oligotrophic (38.1)

The figure below shows the minimum and maximum values with the arrows and the mean with the black dot.



Long-term Trends

Primary site only. Recommend minimum of 8-10 years of data with 4+ readings per season. Minimum confidence accepted by MPCA is 90%

Data Quality

Total Phosphorus:	No significant trend exists.
Chlorophyll-a:	No significant trend exists.
Secchi Depth:	Increasing, indicates improving water quality (99% confidence).

Ecoregion Comparisons

(Primary site only. Comparisons are based on interquartile range, 25th - 75th percentile, for ecoregion reference lakes)

Ecoregion:	Northern Lakes and Forests
Total Phosphorus:	Below Expected Range
Chlorophyll-a:	Within Expected Range
Secchi Depth:	Above Expected Range