

Charlotte 86-0011-00

MN Lake ID: 86-0011-00
County: Wright
Ecoregion: Northern Central Hardwood Forests
Major Drainage Basin: Upper Mississippi River
Latitude/Longitude: 45.1508793912882 / -93.7473882159518
Water Body Type: Public Waters
Monitored Sites (Primary): 101 (Primary)
Monitored Sites (Secondary):

[View MPCA CLMP Historical Secchi Data](#)
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Physical Characteristics

Surface area (acres): 235
Littoral area (acres): 94
% Littoral area: 40%
Max depth (ft): 46 (m) 14.0
Mean depth (ft): N/A
Watershed size (acres): N/A

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Water Quality Characteristics

Years monitored: 2004 - 2013 (RMB database only)

**RMB note: Before 2011, the reporting limit for total phosphorus was 5 ug/L. Starting in 2011, the reporting limit is 3 ug/L.*

Parameters	Primary Site 101 (Primary)
Total Phosphorus Mean (ug/L):	17.1
Total Phosphorus Min (ug/L):	10.0
Total Phosphorus Max (ug/L):	45.0
Number of Observations:	35
Chlorophyll-a Mean (ug/L):	3.3
Chlorophyll-a Min (ug/L):	< 1
Chlorophyll-a Max (ug/L):	11.0
Number of Observations:	35
Secchi Depth Mean (ft):	17.6
Secchi Depth Min (ft):	10.0
Secchi Depth Max (ft):	30.0
Number of Observations:	35

Trophic State Index Mean (Primary Site):

40.3

Trophic State:

Oligotrophic/Mesotrophic



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%

Total Phosphorus: Increasing, indicates declining water quality (90% confidence).
Chlorophyll-a: No significant trend exists.
Secchi Depth: No significant trend exists.
Trophic State Index: No significant trend exists.

EcoRegion Comparisons

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

Total Phosphorus: Below Expected Range
Chlorophyll-a: Below Expected Range
Secchi Depth: Above Expected Range