

WALLMARK LAKE TMDL SUMMARY

Impairment

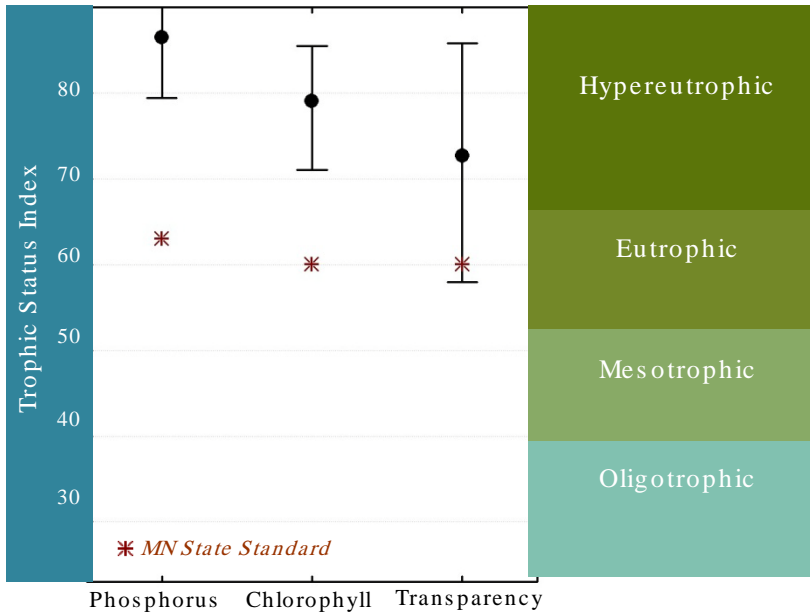
Aquatic recreation due to excess nutrients in the lake.

Water Quality Goal

A 94% reduction in phosphorus loads to the lake is needed to restore the aquatic recreation use of Wallmark Lake.

Observed Water Quality

Mean and Range of Annual Averages (2001, 2006, 2009, 2010)



BASIC FACTS	
DNR ID	13-0029-00
Lake Surface Area	145 acres
Littoral Area	100%
Lake Volume	957 ac-ft
Mean Depth	6.6 ft
Maximum Depth	7.0 feet
Drainage Area	397 acres
Watershed Area:	
Lake Area Ratio	2.7:1

Key Findings

- Wallmark Lake was once the wastewater treatment pond for the Chisago Lakes area.
- Zero feedlots exist within the contributing watershed area.
- Two Imminent Threat to Public Health septic systems have been recently upgraded.

Main Phosphorus Sources

- Internal load
- Urban runoff

Fish & Plants Present

- Curly leaf pondweed (invasive)
- Stunted sunfish
- Black bullhead

Water Quality Standard

Secchi transparency – 1.0 m
Chlorophyll-*a* – 20 µg/L

Total phosphorus – 60 µg/L

Land Cover

Wallmark Lake

