

2026 Eurasian Watermilfoil Delineation

Cross Lake (# 58-0119)
Pine County, MN

Surveyed June 26, 2026



Surveyed by:
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Analysis & Reporting by:
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Purpose of Survey

This early-summer survey was conducted to delineate areas of Eurasian watermilfoil (EWM) in Cross Lake (#58-0119). The reported results are intended to assess the extent and density of EWM in the lake and guide future management decisions.

Survey Method

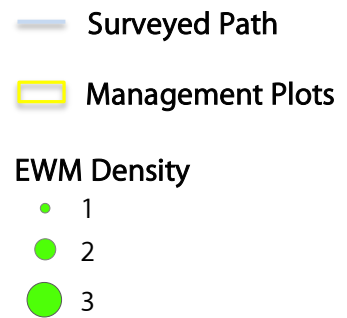
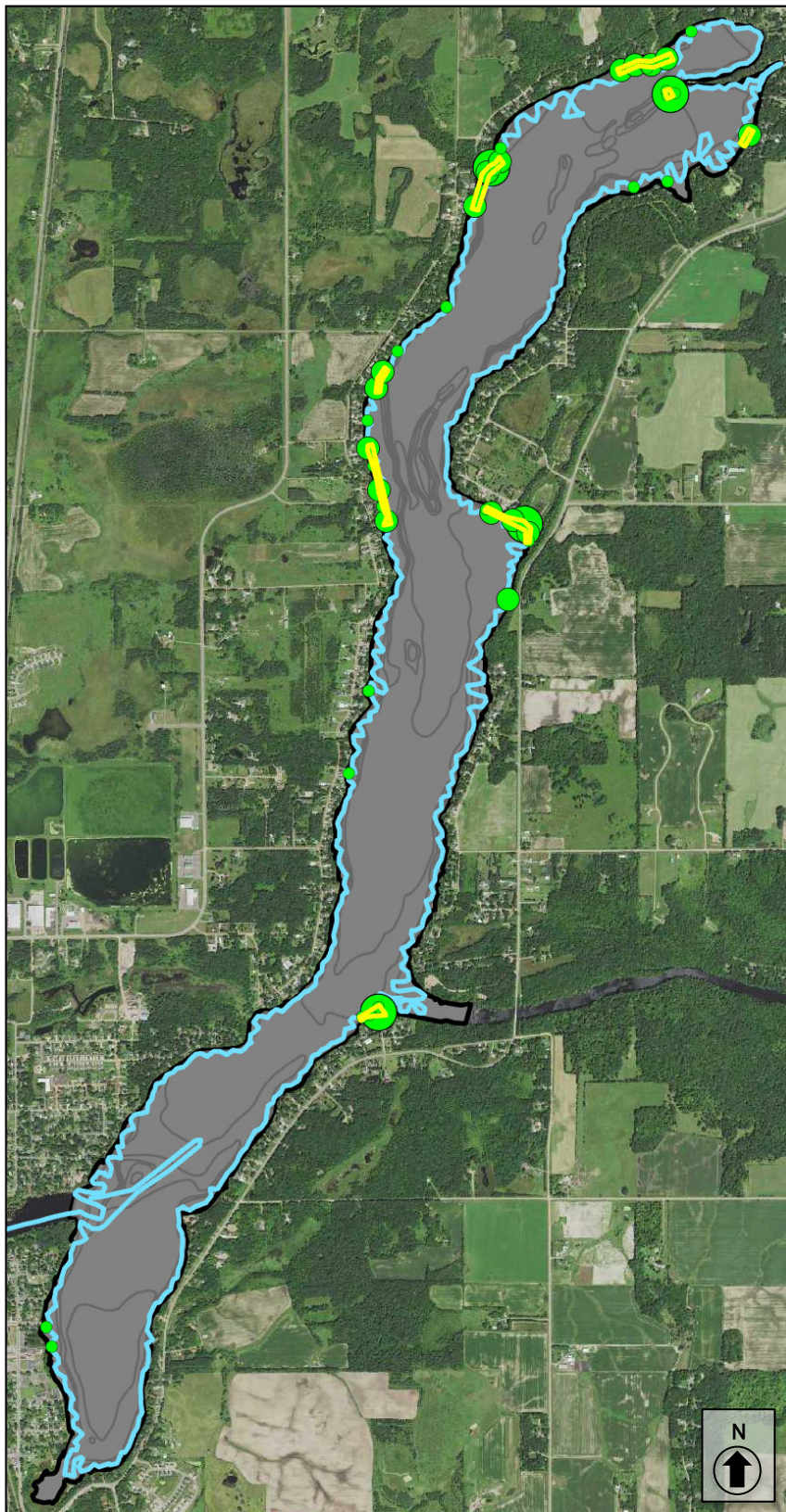
EWM Delineation Survey

We surveyed Cross Lake on June 26, 2026. During this survey, we navigated a meandering path over the nearshore portion of the lake from shore out to roughly the 8-ft contour. While navigating this search path, we used a combination of surface observations, sonar readings, and rake tosses to locate and delineate areas of EWM growth. When we encountered EWM plants, we marked the location, recorded the water depth, and rated the density of the growth using density scores as described in the table below.

Score	Visual	Rake
1	Light / Solitary EWM Plants	1-2 stems
2	Moderate / Scattered Dense Patches	3 to 9 stems
3	Dense / Uniform Matted EWM	10+ stems

For rake samples, we dragged a sampling rake over approximately 10 square feet of lake bottom and recorded the EWM density based upon the number of plants (stem count) retrieved on the rake. The recorded water depths and density scores were linked to the appropriate GPS locations and then mapped using desktop GIS software.

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Methods: Visual, Sonar, Rake

Surveyor: K Espelien

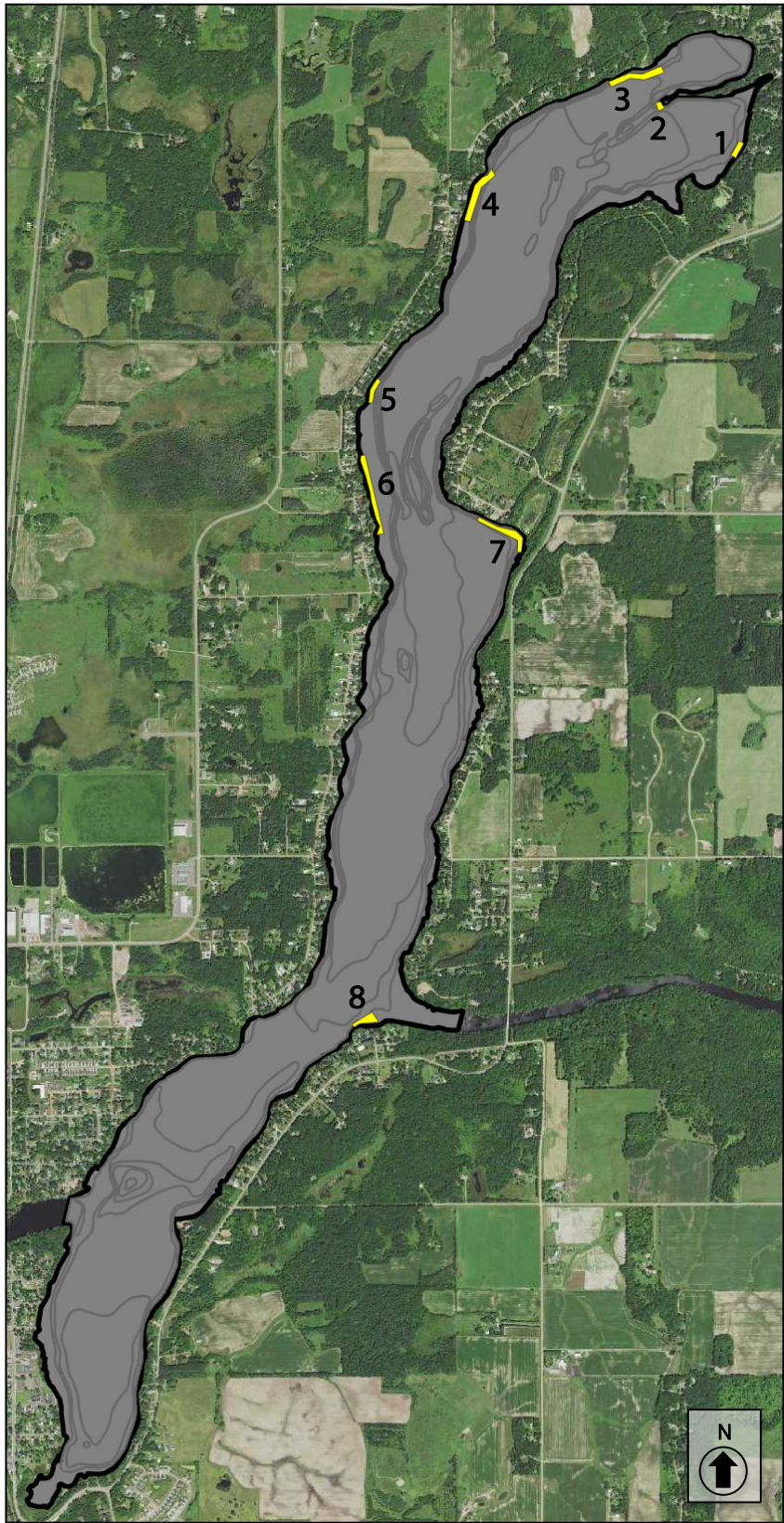
Analyst: JA Johnson



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 Management Plots

Plot	Area (acres)	Avg Depth (ft)	Avg EWM Density (1-3)
1	0.5	2.5	1.5
2	0.3	3.4	1.7
3	1.8	2.6	2.0
4	2.0	2.9	1.7
5	0.6	3.6	2.0
6	2.0	3.4	1.8
7	1.6	2.9	1.7
8	0.8	2.8	1.5

Total 9.5 acres

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Online Resources & Contacts

Minnesota Administrative Rules for Aquatic Plant Management

<https://www.revisor.mn.gov/rules/?id=6280>

Minnesota DNR – Aquatic Plant Management Regulations & Permit Application Forms

<http://www.dnr.state.mn.us/apm/index.html>

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