

2025 Eurasian Watermilfoil Delineation

Lake Emily (# 18-0203)
Crow Wing County, MN

Surveyed July 29, 2025



Survey, Analysis, & Reporting by:

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Purpose of Survey

This survey was conducted to document the location and abundance of Eurasian watermilfoil (EWM) growing in nearshore areas of Lake Emily (#18-0203) with additional focus on areas where EWM has been found in the past. This information will help guide management decisions and is required for DNR control permit applications.

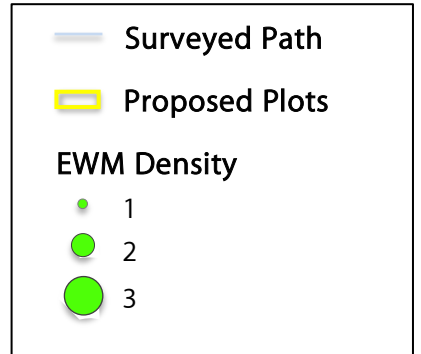
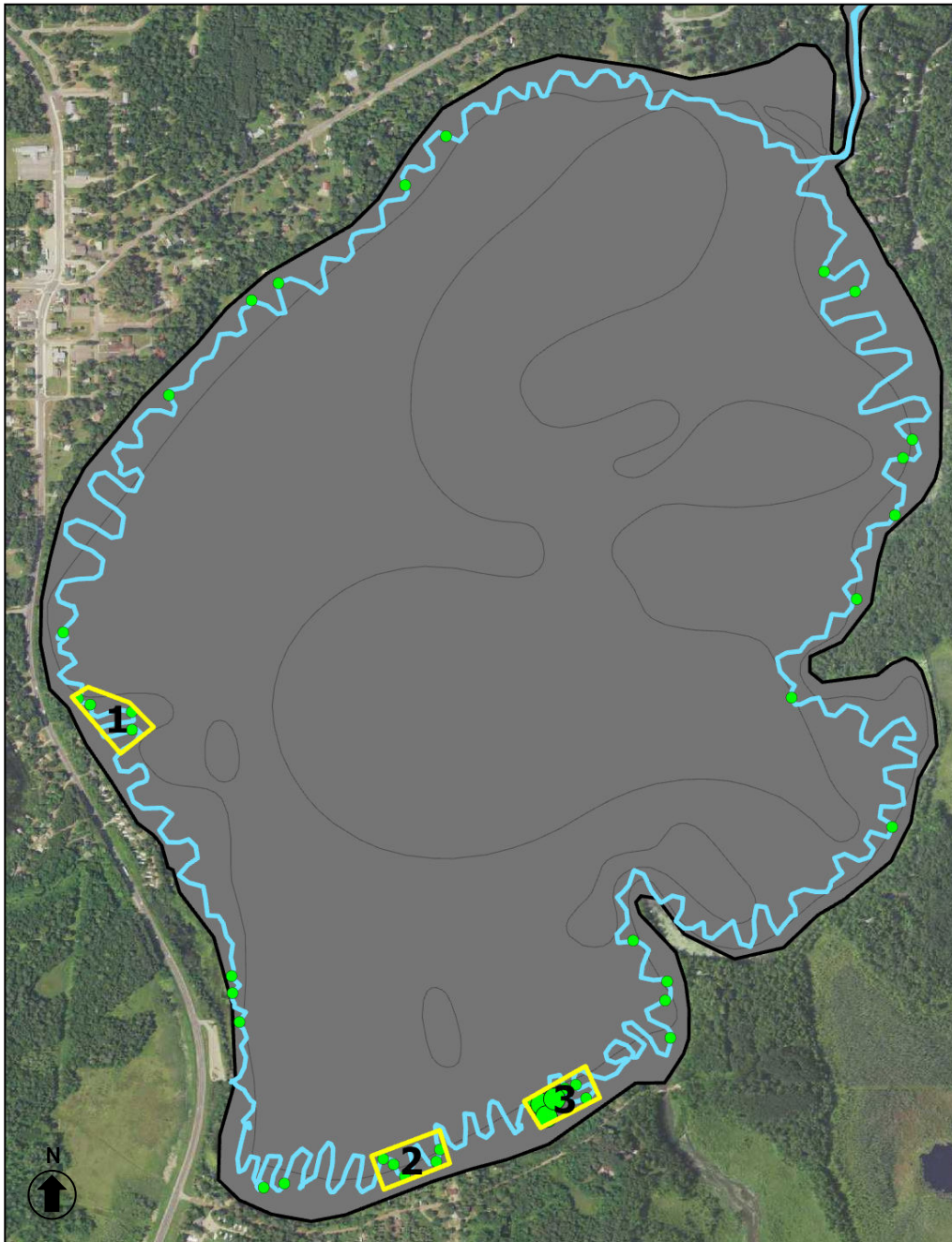
Survey Method

EWM Delineation

Freshwater Scientific Services surveyed the vegetated portion of Lake Emily on July 29, 2025. During this survey, we navigated a meandering path over nearshore areas while using a combination of surface observations, sonar readings, and rake tosses to locate and delineate any areas of EWM growth. We used a hand-held Garmin GPS unit (GPS-MAP78) to record each of the locations where we encountered EWM, and also documented water depth and growth density (density rating; 1 to 3 scale as described below). The recorded water depths and EWM densities were linked to the appropriate GPS locations and then mapped using desktop GIS software.

Score	Visual	Rake
1	Light / Solitary plants	1-2 stems
2	Moderate / Scattered dense patches	3 to 9 stems
3	Dense / Uniform dense growth	10+ stems

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Plot	Acres	Mean Depth (ft)	Mean Density (1-3)
1	2.5	3.8	1.0
2	2.5	4.2	1.0
3	2.2	4.7	1.4

Total 7.2 acres

All three of the identified plots are adjacent to beds of waterlilies. Accordingly, we recommend exploring options for a fall treatment in these areas after the lilies begin to senesce to prevent harm to the lilies. You should discuss this with your DNR AIS Specialist and your applicator.

Surveyed: July 29, 2025

Surveyor: JA Johnson

Methods: Visual, Rake, Sonar

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freshwater
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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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