

MNDNR PERMITTING AND REPORTING SYSTEM

REVISION 20211001

APP ID 87258

Invasive Aquatic Plant Management Permit Application

Reference Number: 2025-1578

Date Submitted to DNR: 5/8/2025 5:25:27PM

Project Name: Cross Lake, Pine County, CLP

IAPM Specialist: Richard Rezanka
Area: Grand Rapids IAPM
Email: Richard.Rezanka@state.mn.us
Phone: 218-999-7805

DNR Region: Northeast Region 2
Address: Minnesota Department of Natural Resources
1201 E Hwy 2
Grand Rapids, MN, 55744

Applicant Details *(Individuals and Organizations associated with the permit application)*

Rachel Wheeler - Landowner or Government Unit

Address: 710 7th Ave NE, Pine City, MN 55063
Phone: 612-723-8578

Spencer Richards - Contact (representing Aquatic Conservation Services)
(submitted application)

Address: 46340 Beach Rd, Harris, MN 55032
Phone: 763-257-5852
Email: aquaticconservationservices@gmail.com

Aquatic Conservation Services - Agent

Address: 46340 Beach Rd, Harris, MN 55032
Phone: 763-257-5852

Location and Water Resource



Water Resource: Lake: Cross (58011900) - Public Waters Basin

County: Pine

Type of Work

Which of the following are you applying for?

Offshore: further than 150 feet from the shoreline, or lakewide

Type of Work (continued)

Proposed Treatment

Treatment Method	Control Area	Species	Mechanical Device	Pesticide	Requested Area Dimensions	Commercial Company
Pesticide Control	Offshore	Curly-leaf Pondweed	(N/A)	Flumigard	9.40 acres	Aquatic Conservation Services

Additional Details

What is the primary reason for the proposed aquatic plant control?	Control invasive species
Is any portion of the proposed control area within 150-feet of the shore?	Yes
Signature form will be mailed or all CURRENT signatures were provided within the last 2 years	Yes
I will share the proposed treatment areas by:	Attached is a map and GIS file for the area(s) proposed for treatment (we only want a map and GIS that is actually being proposed – either spring delineation or a delineation from a previous year)
If possible, please upload a single .zip file of the Geographical Digital Data showing the location(s) and dimensions of the proposed treatment area(s). The file should include all necessary electronic files that can be used by DNR to re-create polygons, waypoints, track logs, etc.	CrossCLP26Apr2025.pdf

Acknowledgement (By the party who submitted the permit application)



I attest that:

- I possess the authority to undertake the work described in the application, or I am acting as a duly authorized agent, AND
- There are no easements or other restrictions on the land that would prohibit the proposed activities from being authorized under a permit, AND
- The information submitted and the statements made concerning this application are true and correct to the best of my knowledge.
- My application is complete and the submitted map represents the actual areas that are proposed for treatment.

PRINTED: 05/08/2025 at 5:25 PM

2025 Curlyleaf Pondweed Delineation

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

Surveyed April 26, 2025



Surveyed by:
Krista Espelien – Environs

Analysis & Reporting by:
James A. Johnson – *Aquatic Ecologist*, Freshwater Scientific Services



Purpose of Survey

This spring survey was conducted to delineate areas of curlyleaf pondweed (CLP) in Cross Lake (#58-0119). The reported results are intended to assess the extent and density of CLP in the lake and guide future management decisions.

Survey Method

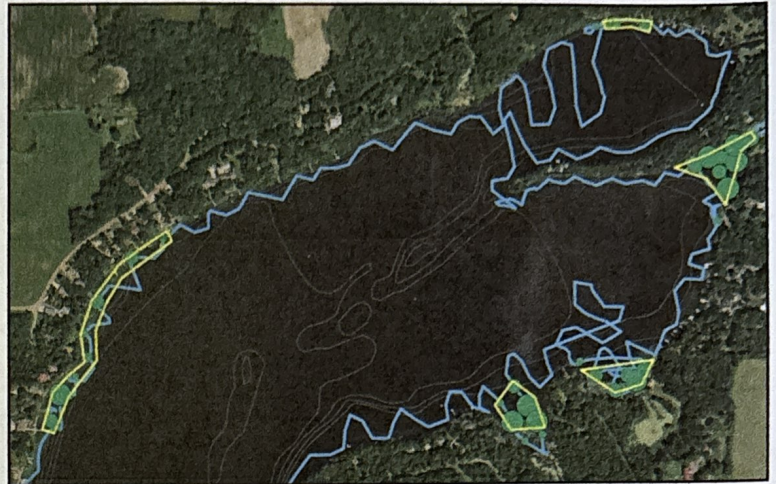
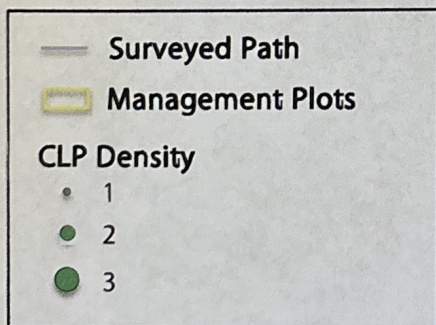
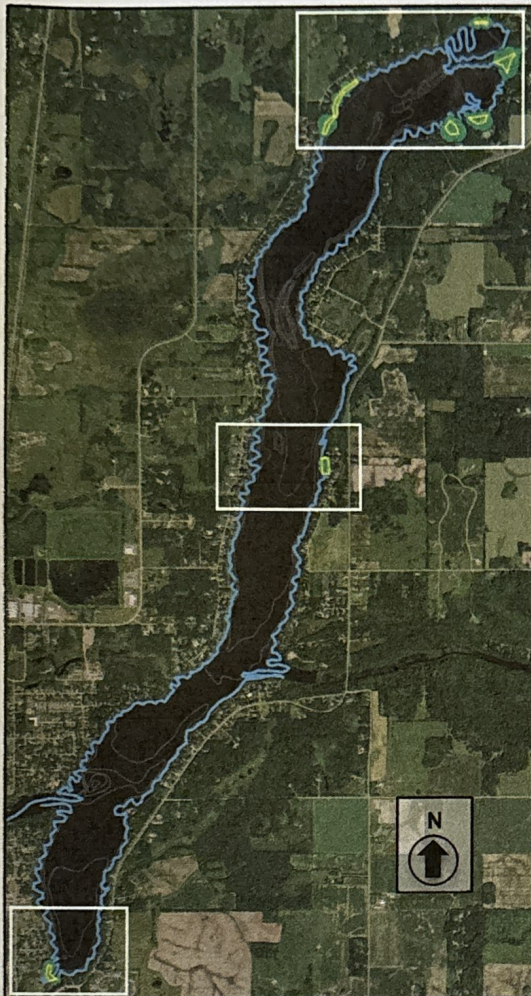
CLP Delineation Survey

We surveyed Cross Lake on April 26, 2025. During this survey, we navigated a meandering path over the portion of the lake from shore out to roughly the 10-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 CLP growth. When we encountered CLP 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.

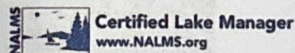
Score	Visual	Rake
1	Light / Solitary plants	1-2 stems
2	Moderate / Scattered dense patches	3 to 9 stems
3	Dense / Uniform dense growth	10+ stems

For rake samples, we dragged a sampling rake over approximately 10 square feet of lake bottom and recorded the CLP 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.

Cross Lake (#58-0119) 2025 Curlyleaf Pondweed Delineation

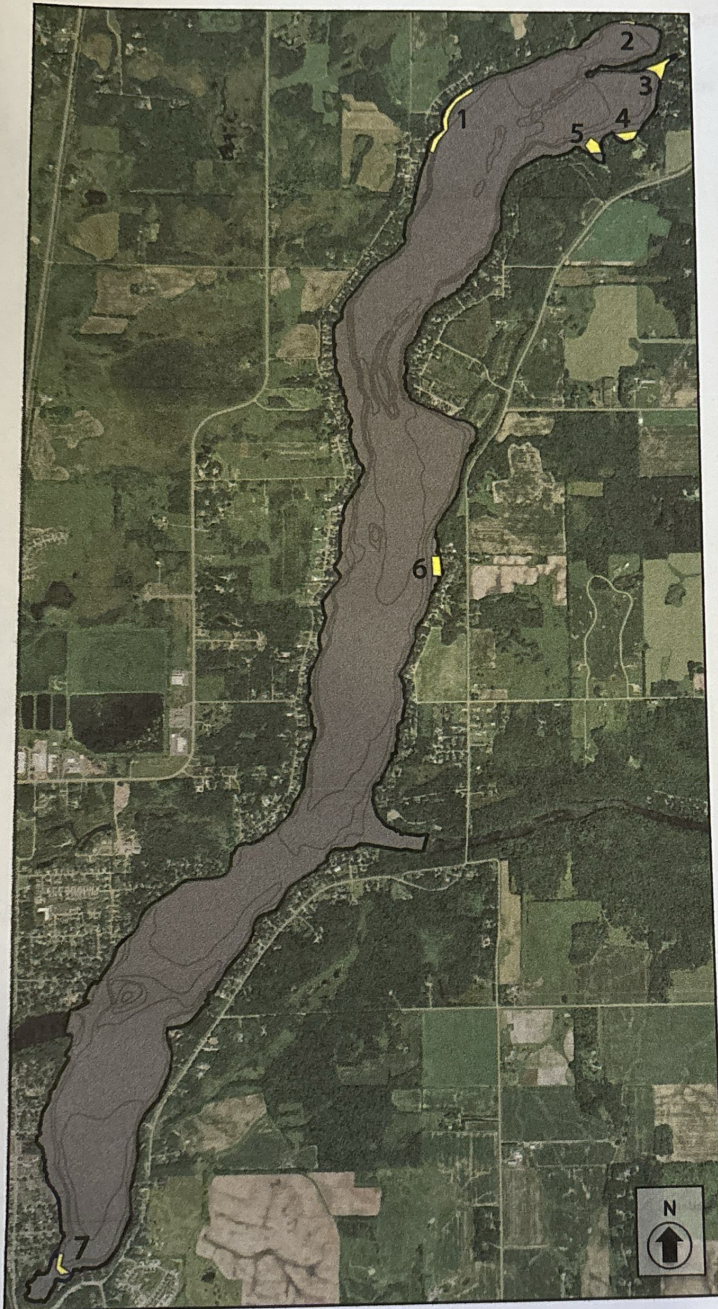



Surveyed: April 26, 2025
Methods: Visual, Sonar, Rake
Surveyor: K Espelien
Analyst: JA Johnson



15771 Creekside Lane
Osseo, MN 55369
fixmylake.com
(651) 336-8696

Cross Lake (#58-0119) 2025 Curlyleaf Pondweed Delineation



 Management Plots

Plot	Area (acres)	Mean Depth (ft)	Mean CLP Density (1-3)
1	2.8	3.5	1.6
2	0.4	3.6	2.0
3	1.7	2.7	2.2
4	1.1	2.6	2.2
5	1.3	3.4	2.4
6	1.3	3.4	1.7
7	0.8	3.7	1.3

Total 9.4 acres

Surveyed: April 26, 2025

Methods: Visual, Sonar, Rake

Surveyor: K Espelien

Analyst: JA Johnson



Certified Lake Manager
www.NALMS.org



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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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Minnesota DNR

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