



311 BRIGHTON AVENUE SOUTH, SUITE C * BUFFALD, MN 55313
PHONE: 763-682-1970 OR 763-682-1933 (EXT. 3) * FAX: 763-682-0262
OFFICE HOURS: MONDAY - FRIDAY * 8:00 A.M. - 4:30 RM.

Wright Soil and Water
Dan Nadeau
Senior Resource Conservationist
763-682-1933 Ex 3

Someone

Who

Cares

Department



















Boots On The Ground



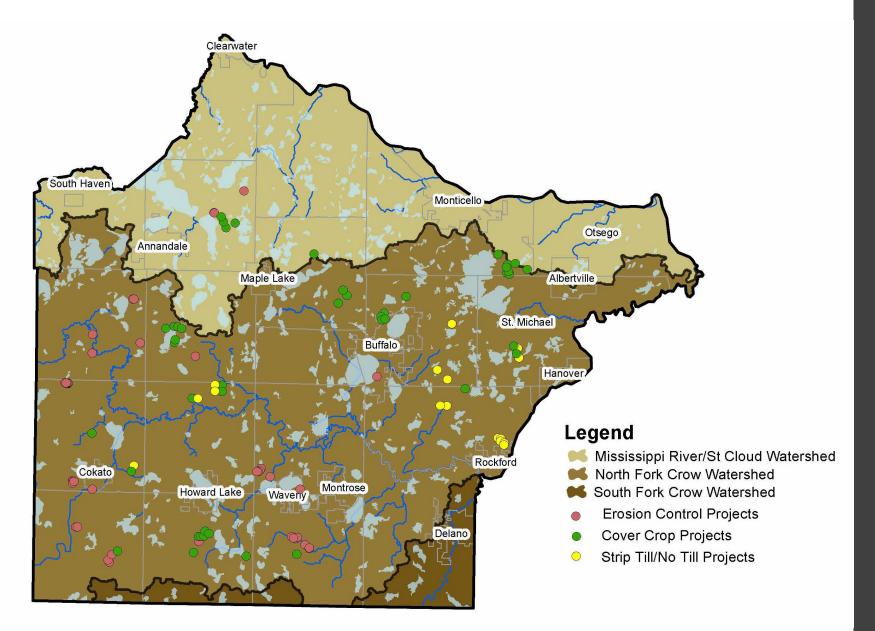












2024 Project Cost-Share

Leveraged Federal Assistance: \$180,236

• Competitive State Grants: \$710,008

Local: \$344,250

Total: \$1,234,495

20 - Water and Sediment Control Basins

- 9 Grade Stabilization Structures
- 4 Terraces
- 2 Grassed Waterways
- 1 Shoreline Restoration
- 1 Wetland Creation
- 14 Contracts Cover Crops 994 acres
- 3 Contracts Strip Til 421 acres
- 1 Contract No Till 54 acres

Project Cost-Share 2014-2024



City of Cokato

3.65 Acre Wetland Creation0.5 Acre Sediment Forebay

0.4 Acres – Previous Pond

Total Project Cost: \$865,124

- BWSR Grant: \$495,000
- Wright County Grant: \$250,000
- Wright County ARP: \$70,124
- FY22 1W1P: \$50,000









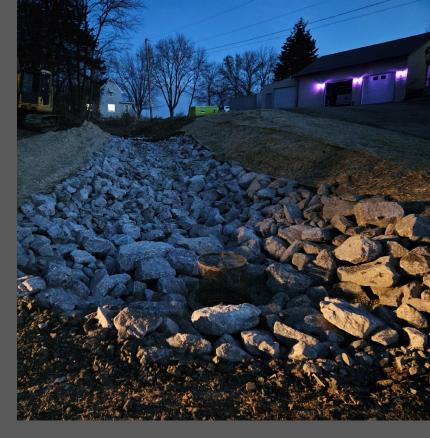
Indian Lake Gully Repair



- Total Project Cost: \$198,148
- Wright County Grant: \$148,611
- Indian Lake Improvement District: \$49,537







Carey and Christina Kittock

- Cost
 - Total Project Cost: \$37,530
 - MPCA 319: \$31,638
 - CWF 12 Mile: \$5,892

- Reductions
 - 4.48 tons/year of Sediment
 - 0.30 lbs./yr of Phosphorus
 - 5.78 lbs./yr of Total Nitrogen







Sean and Linda Groos

• Cost

- Total Project Cost: \$58,553
- MPCA 319: \$40,209
- CWF 12 Mile: \$9,499
- Howard Lake School District: \$8,845

Reductions

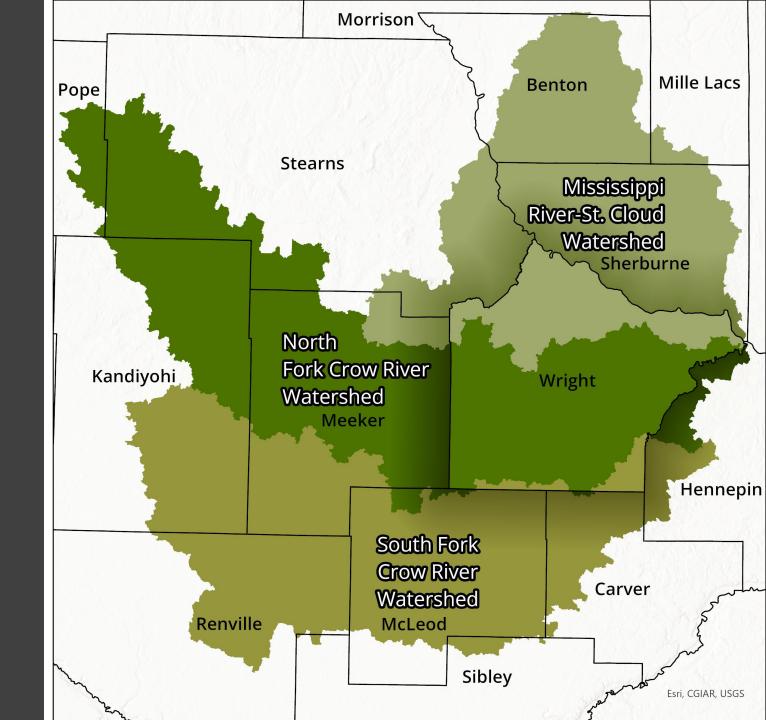
- 2.3 tons/year of Sediment
- 0.15 lbs./yr of Phosphorus
- 2.89 lbs./yr of Total Nitrogen



Watershed Funding

- 1W1P Funding
- Mississippi-River St. Cloud
 - 2025 Funding Will Start This Summer
- North Fork Crow River
 - FY 2018: \$266,628
 - FY 2020: \$501,512
 - FY 2022: \$213,304
 - 88,025 2025 Construction
 - FY 2024: \$68,150
 - \$44,000 2025 Construction
- South Fork Crow River
 - FY 2024
 - \$74,923 2025 Construction

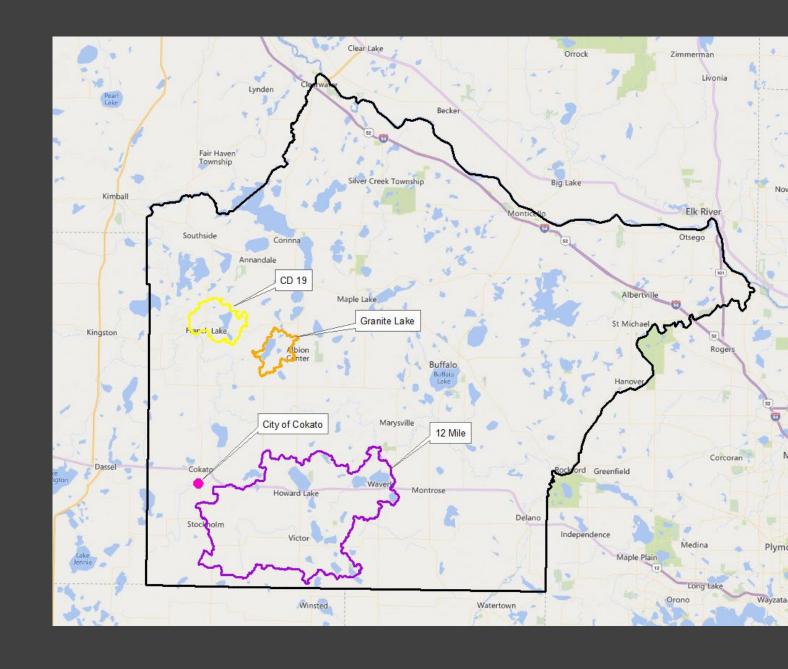
• \$74,9 • \$74,9 Total: \$1,256,542



Grant Funding

BWSR Grants

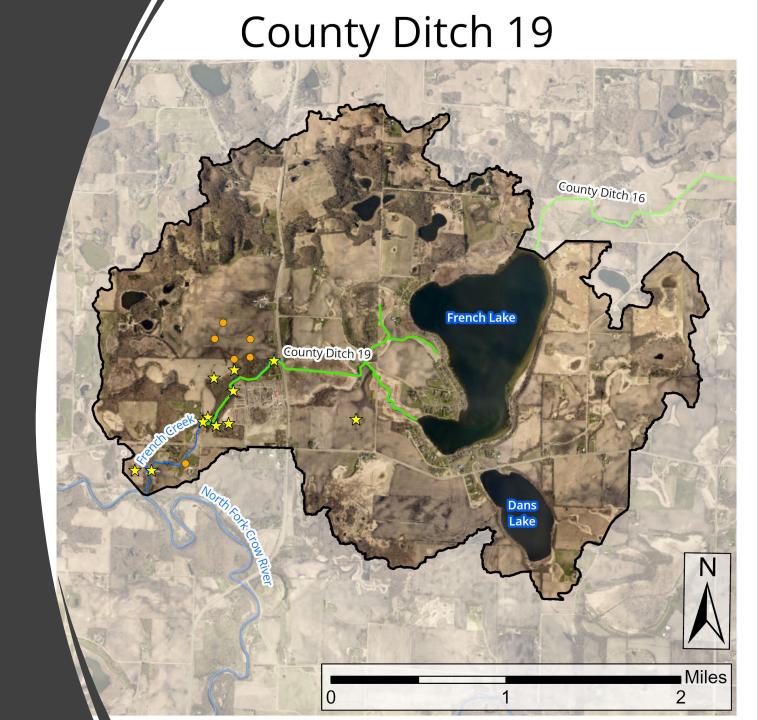
- Granite Lake
 - FY 22: \$140,000
- 12 Mile
 - FY 23: \$286,000
- CD 19
 - FY 23: \$215,000
- City of Cokato
 - FY 24: \$500,000



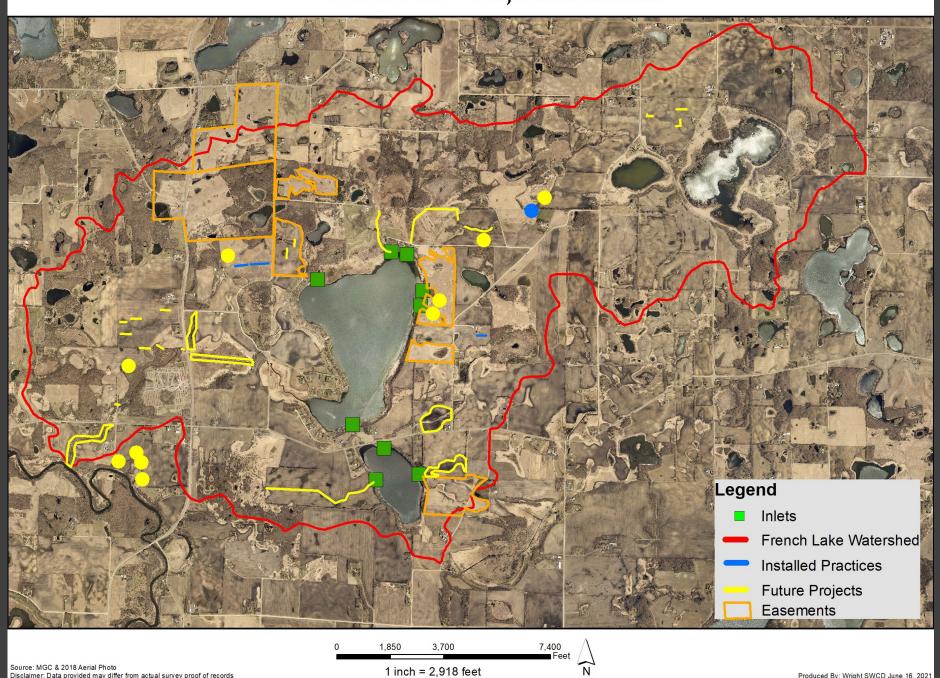
Total: \$1,141,000

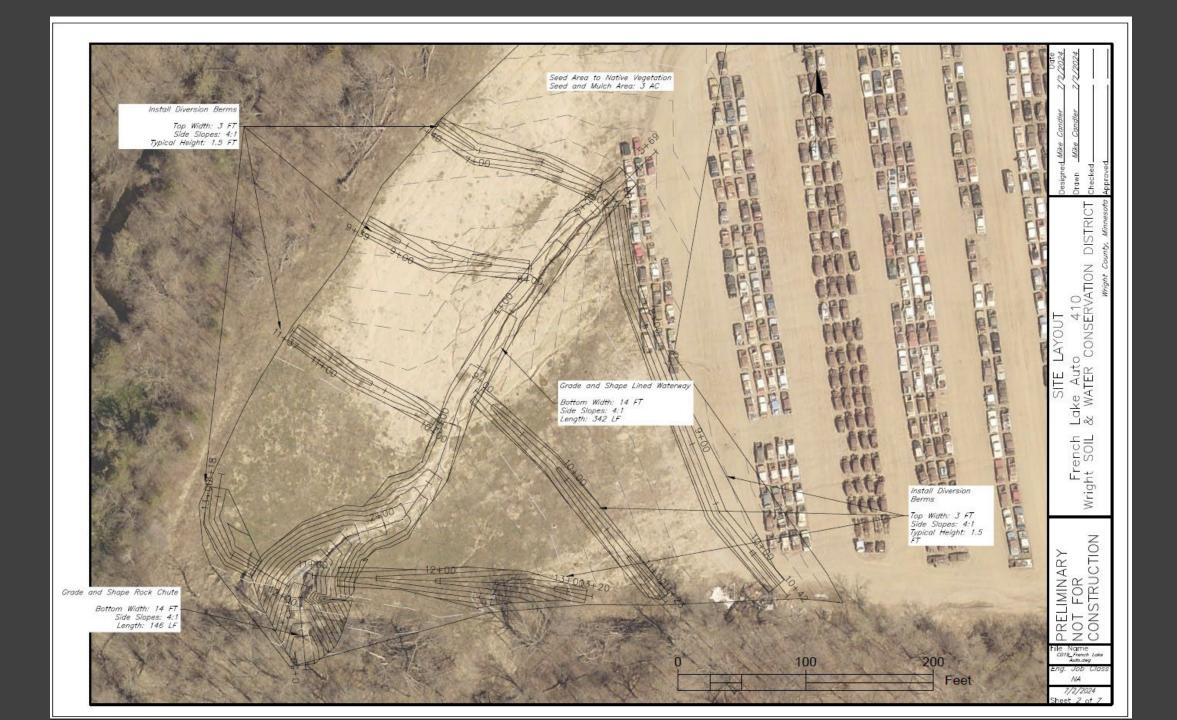
County Ditch 19 Grade Stabilization Structures

- Desktop Review: October 2023
- Site Visit: November 2023
- MDM Grant Due: December 2023
- Awarded Grant: March 2024
 - Grant Amount: \$215,000
- Survey/Design
 - Randy Reinert June 2024
 - Skip Nolan June 2024
 - Margaret Groop February 2025
- Contracts: Spring 2025
- Construction: Summer Fall 2025
- Grant End Date: December 2026

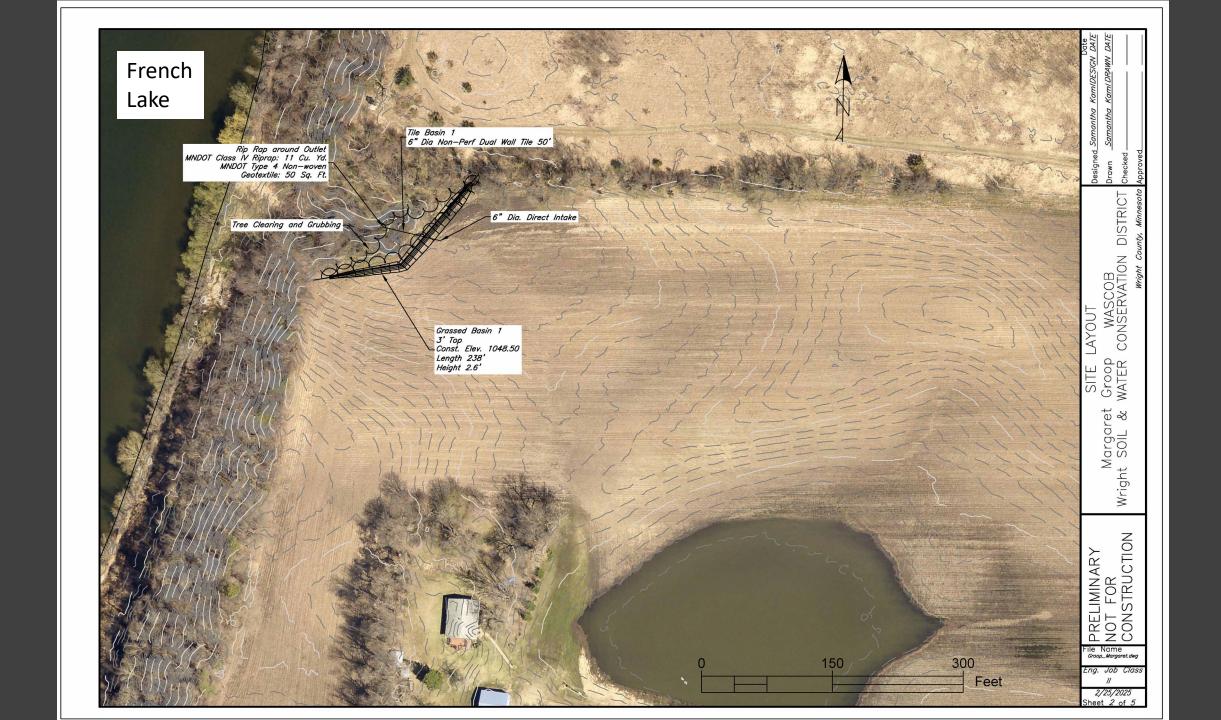


French Lake - Project Assessment









Urban Projects

City of Howard Lake

Howard Lake Water Quality Planning

City of Howard Lake August 8 2024



Real People. Real Solutions.

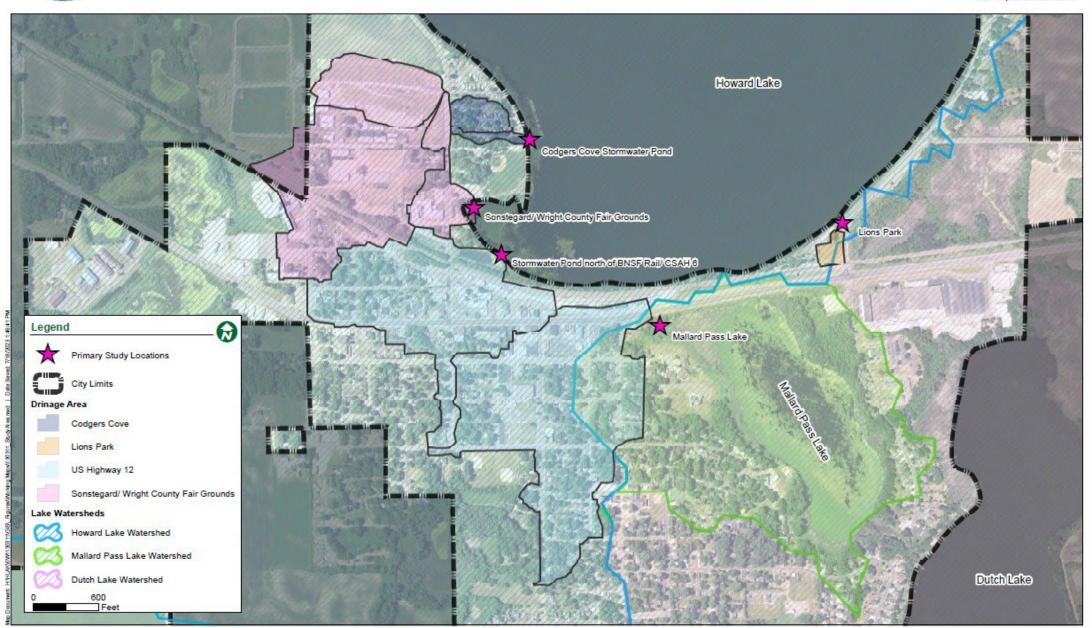
Submitted by:

Bolton & Menk, Inc. 111 Washington Avenue S, Suite 650 Minneapolis, MN 55401 P: 612-416-0220

F: 612-416-0222

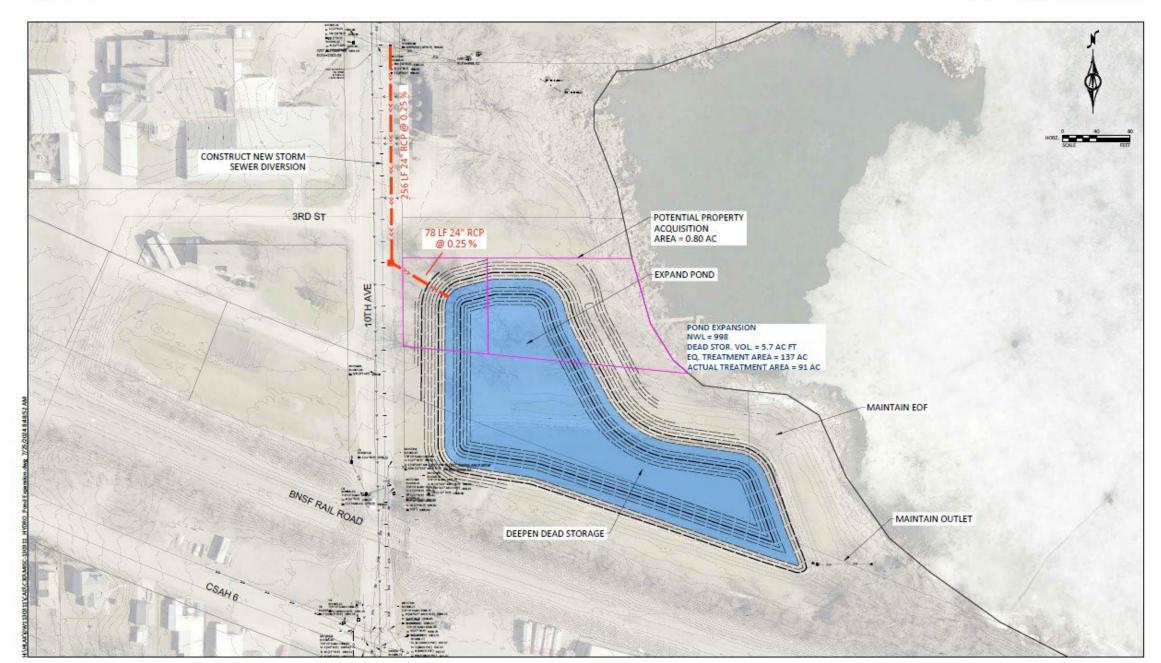
Real People. Real Solutions.





City of Howard Lake





City of Waverly



520 Lafayette Road North St. Paul, MN 55155-4194

Small Communities Planning Grants for Stormwater, Wastewater, and Community Resilience

FY 2025

Doc Type: Grant Application

Instructions: Read the complete Request for Proposal (RFP) and other associated documents before submitting this application.

Check the <u>SWIFT Supplier Portal</u> and the Minnesota Pollution Control Agency (MPCA) <u>Small Communities Planning</u> <u>Grants for SWC Resilience</u> webpage for the most recent updates.

Applications are due no later than 4:00 p.m. Central Time (CT) on Friday, January 17, 2025.

Submit Application, Workplan, and Budget (as Microsoft Word and Excel documents) per the instructions listed in Section 7 and 8 of the RFP. Projects submitted without all three documents will be deemed ineligible.

1. Project information (All project information must be filled out for the project to be eligible.)

Organization name:	City of Waverly								
Organization address:	502 Atlantic Ave								
City:	Waverly		State:	MN	Zip code:	55390	County:	Waverly	
Contact name:	Deb Ryks		Title:	Title: City Clerk					
Phone:	763-658-4217		Email	Email address: waverlymn@gmail.com					
Organization type: (fill out Tribal OR Local/Regional information)	☐ Tribal government Population that Tribal Government has or serves:		⊠ Lo	□ Local/Regional government (plus select one below) □ City □ County □ Town/Township □ Soil and Water Conservation District □ Watershed Management Organization □ Watershed District □ Regional Development Commission □ Metropolitan Planning Organization Population that Local Government has or serves: 2,121					
Project focus area (check all that apply):									
Project Title:	Watershe	Watershed Implementation Study & Improvement Plan							
Grant requested:	\$ 62,184 + Matching funds: \$ 52,500 = Total project cost: \$ 114,684						84		
	65	323	(2)				700	Yes	No
Is applicant the sole	e source of ma	atching funds for this p	roiect?						×

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Grant Outcomes

- Complete Understanding of the City's Current Drainage System
 - Inverts and Pipe Sizes
 - Create a Hydraulic Model
 - Assess Capacity
 - Identify Potential Flood Control
 - Identify Water Improvements





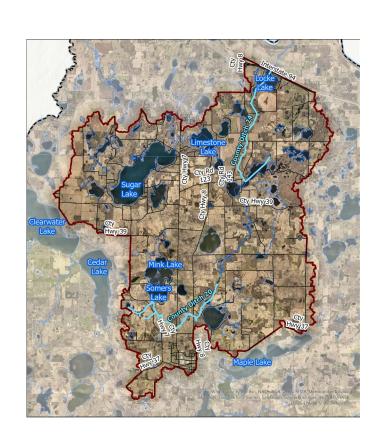


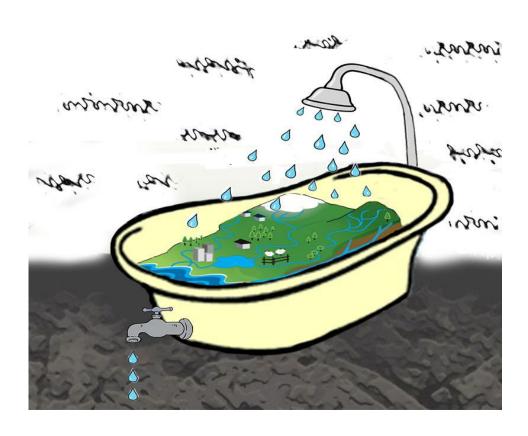


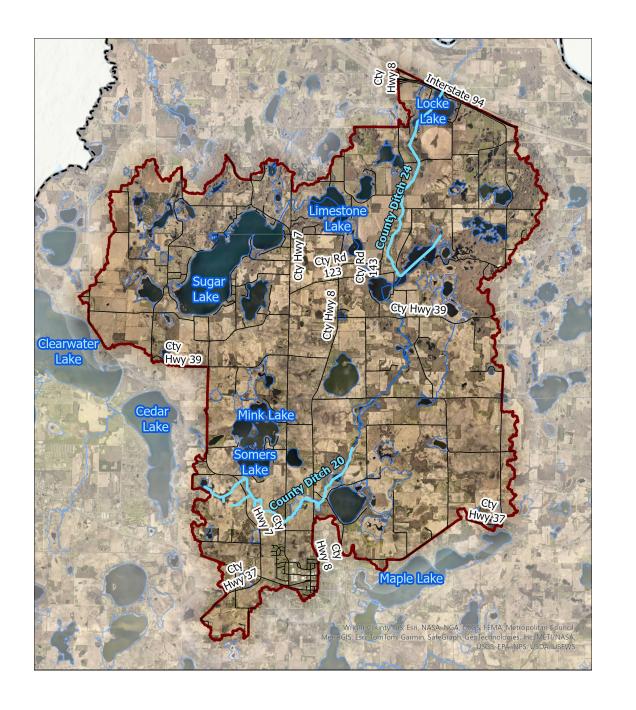


Connection

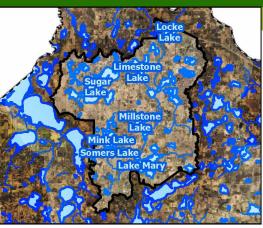
Locke Lake







Locke Lake Report 2024



Lake Summary

Lake ID:86-0168-00 Nearby: Clearwater, MN

Max Depth: 49 ft Surface Area: 140 acres

Watershed Area: 33,071 acres Average Depth:18 ft

Ordinary High Water Level: 960 ft Impairments: Nutrients, Fish Life

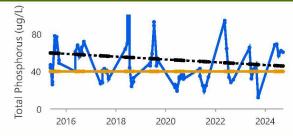
AIS: Curly-leaf pondweed, Common carp, Eurasian watermilfoil, zebra mussels

Classification

A classification of "E" means the lake is Eutrophic or "well nourished". Contrary to it's meaning these lakes are generally considered impaired. The water is generally green with algae especially later in the summer. Some recreation will be hinder. Fisheries may be limited.

How to read the graphs

The solid blue lines show change in water quality. The lower the line the healthier the lake. The SWCD's goal is for the solid blue line to be below the orange line. This is the threshold for impairment. The dotted line shows the trend over time. A minimum of 5 years of recent data is required for a trend.



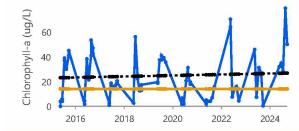
Phosphorus

10-yr Average

52 ug/L

Trend

Phosphorus is needed by plants and animals to survive, but can cause algae blooms if there is too much phosphorus available. Some sources of high phosphorus are Improving fertilizer, human and animal waste, and soil erosion waste, and soil erosion



Chlorophyll-a

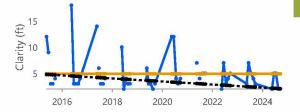
10-yr Average

23 ug/L

Trend

No Trend

Chlorophyll-a is a measurement of the amount of algae in a lake. Some algae can produce dangerous toxins. High algal concentrations threaten aquatic life and can impede recreation and enjoyment of the lake



Clarity

10-yr Average

5.2 ft

Trend

No Trend

Clarity is affected by the amount of algae and sediment in the water column. Low clarity means sunlight does not reach deeper portions of the lake to support plant and animal life. In the graph the lower the blue line the deeper sunlight can penetrate

Locke 86-0168-00

Lake Information

MN Lake ID: 86-0168-00 County: Wright **Ecoregion: NCHF**

Major Drainage Basin: UM

Latitude/Longitude: 45.36027778 / -93.95941667

Years Monitored: 2002 - 2025 Monitored Sites: 201

MPCA Assessment Report

Search County Monthly Precipitation Data

MN DNR Watershed Health Assessment Framework

Physical Characteristics

Surface area (acres): 156 Littoral area (acres): 67 % Littoral area: Max depth (ft): 49 Max depth (m): Mean depth (ft): N/A Watershed size (acres): N/A **Aquatic Invasive Species:**

View MN DNR Fisheries Report View MN DNR Lake Level Report

Water Quality Characteristics

(data from RMB monitoring database only)

Primary Site 201 Parameters

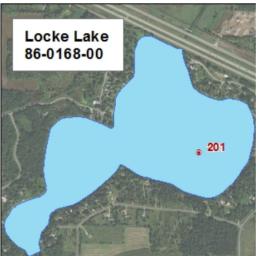
56.8 Total Phosphorus Mean: **Total Phosphorus Min:** Total Phosphorus Max: 460 Number of Observations: 177

27.5 Chlorophyll-a Mean: Chlorophyll-a Min: Chlorophyll-a Max: 79.2 Number of Observations: 176

Secchi Depth Mean: Secchi Depth Min: Secchi Depth Max: Number of Observations:

Trophic State Index Mean:

4.2 18 149 60 Trophic State: Eutrophic



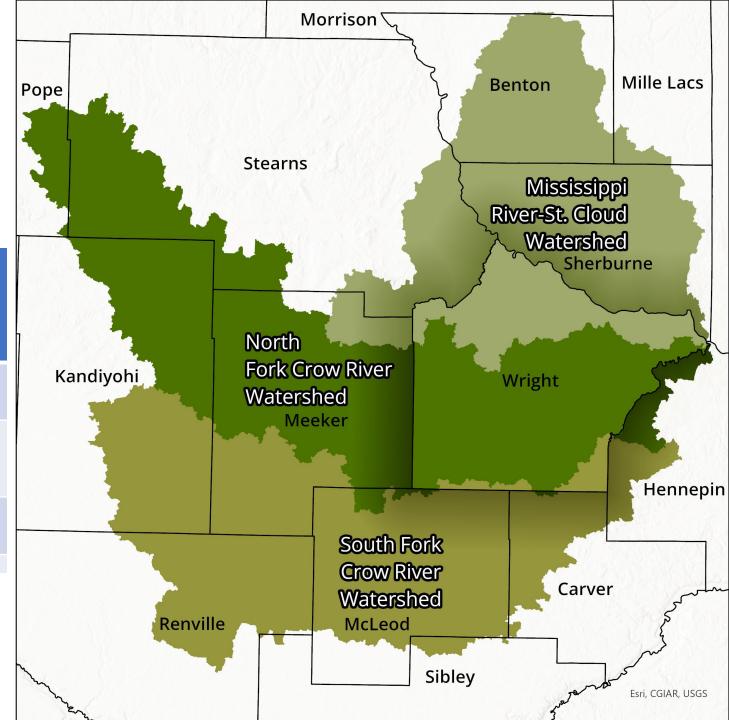
North Central Hardwood Forest – Ecoregion Water Quality Standards

TP: 23-50

CHLA: 5-22

Secchi: 5-10.5

Includes basic modeling of whole watershed, with detailed modeling along CD 24 and evaluation of alternatives for Township culverts. Also includes review of storage /capacity improvements in CD 24 and preliminary design of an alternative	\$80,000
Option 1: Detailed Modeling in CD 20: This includes survey along CD 20 and adding detail to the model sufficient to evaluate restoration alternatives	\$15,000
Option 2: Multipurpose Drainage Management Review of CD 20: This includes evaluating alternatives for storage and/or other conservation practices along CD 20, and detailing the conclusions within a report	\$10,000
Option 3: Outreach and Meetings: This includes attending a County Board meeting and a landowner meeting, and developing materials for those meetings	\$5,000
TOTAL (Base and all three options)	\$110,000



How to help the lake

Stormwater

 Impervious surface (development)

Manage Aquatic plants

 Enhance native plant species in the lake

Septic

• How is mine?

Shoreline

- Native Plants
- Riprap in combination with natives
- Mowing down to shoreline
- Buffer between lawns and lake

Restoring or improving wetlands

- Adding storage
- Removing nutrients