

NORTH CANNON RIVER



WATERSHED MANAGEMENT ORGANIZATION

WEDNESDAY, NOVEMBER 16, 2022

BOARD OF MANAGERS MEETING - 7:00 pm

**Castle Rock Townhall
2537 240th St W
Farmington, MN 55024**

1. Call to Order

* Indicates that support materials are included within the packet

2. Approval of Agenda

3. Audience

Anyone in the audience wishing to address the Board regarding an item that is not on the agenda may come forward at this time.

4. Consent Agenda

- 4.1 July 20, 2022 Meeting Minutes*
- 4.2 Invoices for Payment*
- 4.3 Year-to-Date Financial Summary*


5. New Business

- 5.1 Approve Draft Watershed Plan for 60-day Review
- 5.2 Approve 2023 Budget and Dues*
- 5.3 Approve 2023 Workplan with SWCD*
- 5.4 Review 2021 Water Monitoring Report*
- 5.5 Review 2022 Landscaping for Clean Water Summary*
- 5.6 Delegate Data Practices Authority
- 5.7 Approve 2023 Meeting Schedule
 - February 1, 2023
 - April 12, 2023
 - July 19, 2023
 - November 15, 2023

6. Agenda Items and Location for February 1, 2023 Meeting

7. Member Community Reports

8. Adjournment



Serving the Communities of: Castle Rock Township, Douglas Township, Eureka Township, Greenvale Township, Hampton Township, Randolph Township, Sciota Township, Waterford Township, City of Miesville, City of New Trier, and the City of Randolph

NORTH CANNON RIVER



WATERSHED MANAGEMENT ORGANIZATION

DRAFT MINUTES

BOARD OF MANAGERS

July 20, 2022

7:00 p.m.

Lake Byllesby

Annual Tour: Prior to the meeting, Josh Peterson, Dakota County, Senior Water Resources Engineer lead a tour of the Byllesby Dam. There have been upgrades to the dam and he provided an overview of the project.

NCRWMO Managers Present:

Rodney Weber	Douglas Township
Frank Wergin	Waterford Township
Greg Langer	Greenvale Township
Dan Peine	Hampton Township
Don Dinesen	Randolph Township
Nancy Sauber	Eureka Township
Sandy Weber	Castle Rock Township

Others Present:

Ashley Gallagher, Dakota County SWCD Staff
Jayne Hager Dee, Dakota County SWCD Board
Erv Ulrich, Greenvale Resident
Tom Krauter, Randolph Township

1. Call to Order

Chair Weber called the meeting to order at 7:10 p.m.

2. Approval of Agenda

Motion by Peine, second by Langer to approve the agenda. Motion carried.

3. Audience

Weber asked if there was anyone in the audience that wished to address the Board on an item that is not on the agenda. No one appeared.

4. Consent Agenda

4.1 April 20, 2022 Meeting Minutes

4.2 Invoices for Payment

4.3 Year-to-Date Financial Summary

Grammatical correction noted in minutes. Additional ISG invoice arrived a day prior to the meeting and was presented to the Treasurer/Board. Treasurer inquired about CD as it will be maturing in August. Money in CD has been budgeted for the Watershed Plan update and will be needed to pay invoices.

Motion by Dan Peine, second by Tony Van De Steeg to allow CD to mature and transfer to savings or checking. Motion carried.

Motion by Rodney Weber, second by Nancy Sauber to approve consent agenda. Motion carried.

5. New Business

5.1 Approve NCRWMO Watershed Plan Framework

The framework was prepared by ISG based on input from Technical and Advisory Committees. Administrator presented the document to the Board. There was a question on cover crops and how accepted and widely implemented are they. It will take more education and outreach to reach more farmers. Noted a few times that education and outreach is its own issue but it does cross over into almost all other issues. Board understands the definitions, difference between tier 1 and tier 2, and supports the framework. ISG will continue to update the plan. It is anticipated that a draft will be ready for internal review (including the Board) in September/October and will be ready for official 60-day review at the November NCRWMO Board meeting.

Motion by Nancy Sauber, second by Greg Langer to approve the framework as presented.

5.2 Approve Updated Data Practices Policy

It is a requirement to review/update the Data Practices policy every five years. There are no major changes to the policy besides noting that electronic format is acceptable. Upon approval the policy will be sent to the Minnesota Historical Society.

Motion by Greg Langer, second by Dan Peine to approve and submit the updated data practices policy. Motion carrier.

5.3 SWCD/County Grant from MDH to Review Mining Ordinances Countywide

Administrator provided an overview of the upcoming project. Townships expressed interest and do see some pressure for new mines. There are also existing mines that have historically worked well with townships. Townships do not want businesses to be targeted. Targeting business is not the intent of the project. Nothing will be required of the townships and cities but there will be an updated model ordinance that could be adopted. Many think it is a timely project and are looking forward to the results.

5.4 Capital Improvements Projects (CIP) Discussion

The draft Capital Improvements section of the Watershed Plan was reviewed and used as a starting point for discussion. There was discussion on road projects and culverts. Townships typically do a road tour and report every year. These reports could be compiled to determine if there could be a water quality and/or water storage component to the project. This does seem feasible and a possible strategy for CIP in the updated Watershed Plan.

6. Agenda Items and Location for November 16, 2022 Tour and Meeting

Castle Rock Township volunteered to host the meeting.

7. Member Community Reports

MPCA was out doing fish survey on Chub Creek. They stated they found 22 species of fish.

Update that the County ACRE Plan is out for a 45-day public comment period. Staff will be visiting all townships to provide and update. Draft is posted online, and comments can be submitted at any time.

8. Adjournment - Motion by Peine, second by Wergin to adjourn the meeting. Motion carried. Meeting adjourned at 8:00 p.m.

FROM:

Environmental Resources Department
Attn: Paula Liepold
Dakota County Western Service Center
14955 Galaxie Avenue
Apple Valley, MN 55124

Phone: 952-891-7117

INVOICE

OCTOBER 6, 2022

TO:

Ashley Gallagher
North Cannon River Watershed Management
Organization

FOR:

Wetland Health Evaluation Program (WHEP)

Ashley.gallagher@co.dakota.mn.us

DESCRIPTION	AMOUNT
In accordance with the North Cannon River Watershed Management Organization-Dakota County executed contract #C0034927 to administer the Wetland Health Evaluation Program on behalf of the City, payment for the NCRWMO's participation in WHEP for 2022. 3 (2 plus 1 crosscheck) wetlands @ \$900 each	\$2,700.00
Total	\$2,700.00



I & S Group, Inc.
115 E. Hickory St.
Suite 300
Mankato, MN 56001
507-387-6651
www.ISGInc.com



¹ North Cannon River WMO
4100 220th Street West
Suite 102
Farmington, MN 55024

Invoice Number 85719
Date 09/30/2022

**Project 21-25618 North Cannon
River WMO Mgmt Plan -
Farmington, MN**

Progress billing for professional services provided through date of invoice

Description	Contract Amount	Prior Billed	Current Billed
Task 1: Gaps Analysis	\$2,620.00	\$2,620.00	
Task 2: Stakeholder Engagement	\$3,718.00	\$3,718.00	
Task 3: Issue Prioritization	\$3,538.00	\$3,538.00	
Task 4: Goals, Strategies, Policies	\$7,308.00	\$7,308.00	
Task 5: Plan Prep + Review	\$14,928.00	\$13,920.00	\$1,008.00
Reimbursables			
	\$32,112.00	\$31,104.00	\$1,008.00

Invoice Amount **\$1,008.00**

Payment Terms: Net 30 days from invoice date. Past due balances are subject to late fees in the amount of 1.5% per month.
If you have a question regarding your invoice or are interested in receiving invoices electronically, please e-mail AR@ISGInc.com

Automated Clearing House (ACH) Instructions

Account Name: I&S Group, Inc.
ABA/Routing Number: 073000642
Account Number: 2348642289
Send Remittance to: AR@ISGInc.com

Aging Summary

Invoice Number	Invoice Date	0 - 30	31 - 60	61-90	Over 90	Balance
84219	7/31/2022	\$0.00	\$0.00	\$3,910.00	\$0.00	\$3,910.00
84786	8/31/2022	\$1,020.00	\$0.00	\$0.00	\$0.00	\$1,020.00



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85719	9/30/2022	\$1,008.00				\$1,008.00
Total Outstanding		\$2,028.00	\$0.00	\$3,910.00	\$0.00	\$5,938.00



**Dakota County Soil & Water
Conservation District**

**4100 220th Street West, Ste 102
651-480-7777
Farmington, MN 55024**

Invoice

DATE	INVOICE #
7/26/2022	3207

BILL TO

North Cannon River WMO
Frank Wergin, Treasurer
30468 Canada Avenue
Northfield, MN 55057

Reference

TERMS
Net Due in 30 Days

ITEM CODE	DESCRIPTION	HOURS	RATE	AMOUNT
	April - June 2022			
NCR WMO	ADMINISTRATIVE ASSISTANCE: General Administration, Financial Tasks, Board Meeting Coordination (April 20). Assessor Land Change Query. Met Council Priority Waters. Annual Tour Planning.	15	85.00	1,275.00
NCR WMO	Watershed Management Plan	42.5	85.00	3,612.50
NCR WMO	Paper, Printing and Postage		25.00	25.00
	TECHNICAL ASSISTANCE, EDUCATION AND COST SHARE:			
NCR WMO	Water Monitoring:			
NCR WMO	Water Quality Monitoring	3.5	85.00	297.50
NCR WMO	Data Analysis and Reporting	1.5	85.00	127.50
NCR WMO	Advocacy, Education, and Outreach: WHEP Coordination	0.5	85.00	42.50
NCR WMO	Cost-Share Program:			
NCR WMO	J. Irrthum Grassed Waterways 2		1,000.00	1,000.00
NCR WMO	J. Irrthum Grassed Waterways Technical Assistance		333.33	333.33

Thank you.

Total **\$6,713.33**



Invoice

Dakota County Soil & Water Conservation District

4100 220th Street West, Ste 102
651-480-7777
Farmington, MN 55024

DATE	INVOICE #
7/25/2022	3208

BILL TO

North Cannon River WMO WBF Grant
Frank Wergin, Treasurer
30468 Canada Avenue
Northfield, MN 55057

Reference

TERMS

Net Due in 30 Days

ITEM CODE	DESCRIPTION	HOURS	RATE	AMOUNT
	FY19 Watershed Based Funding Grant Tasks April 3, 2022 to June 25, 2022			
NCR WMO 19	GRANT ADMINISTRATION: (4.00 Hours)		357.00	357.00
NCR WMO 19	PROJECT DEVELOPMENT:		0.00	0.00
NCR WMO W...	AGRICULTURAL PRACTICES:		0.00	0.00
NCR WMO 19	SUBWATERSHED ANALYSIS:		0.00	0.00
NCR WMO 19	DRAINAGE WATER MANAGEMENT:		0.00	0.00
	(4.00 Hours at Billable Rate)			
Thank you.			Total	\$357.00



Dakota County Soil & Water Conservation District

4100 220th Street West, Ste 102
Farmington, MN 55024
(651) 480-7777
DakotaSWCD.Accounting@CO.Dakota.MN.US

Invoice

DATE	INVOICE #
10/12/2022	3231

BILL TO				
North Cannon River WMO Frank Wergin, Treasurer 30468 Canada Avenue Northfield, MN 55057		Agreement	BILLING PERIOD	TERMS
		2022 Agreement	6/26 - 9/30 2022	Net 30 Days
DESCRIPTION		HRS/COUNT	RATE	AMOUNT
ADMINISTRATIVE ASSISTANCE				
Board Meetings, Financial Reporting, Correspondence and Coordination, Watershed Management Plan and Website Administration		71.5	85.00	6,077.50
Paper, Printing and Postage		1	25.00	25.00
TECHNICAL ASSISTANCE				
Water Monitoring		4.5	85.00	382.50
Water Monitoring Supplies		1	17.77	17.77
Water Monitoring Lab Analysis		1	377.00	377.00
Advocacy, Education and Outreach Strategies		0	85.00	0.00
Landscaping for Clean Water Grants:		0	250.00	0.00
Landscaping for Clean Water Technical Assistance		0	500.00	0.00
Cost Share Program: Caroline Leifeld		1	1,000.00	1,000.00
Caroline Leifeld Technical Assistance		1	333.33	333.33
It's been a pleasure working with you!			Total	\$8,213.10



Dakota County Soil & Water Conservation District

4100 220th Street West, Ste 102
Farmington, MN 55024
(651) 480-7777
DakotaSWCD.Accounting@CO.Dakota.MN.US

Invoice

DATE	INVOICE #
10/5/2022	3232

BILL TO			
North Cannon River WMO WBF Grant Frank Wergin, Treasurer 30468 Canada Avenue Northfield, MN 55057		Agreement	BILLING PERIOD
		NCR FY19 WBF	6/26 - 09/30 2022
			Net 30 Days
DESCRIPTION		HRS/COUNT	AMOUNT
GRANT ADMINISTRATION			
2 Hours at BWSR Hourly Rate		1.5	89.00
		0.5	74.00
PROJECT DEVELOPMENT		0	0.00
AGRICULTURAL PRACTICES		0	0.00
SUBWATERSHED ANALYSIS		0	0.00
DRAINAGE WATER MANAGEMENT		0	0.00
It's been a pleasure working with you!		Total \$170.50	

4.3 Year-to-Date Financial Summary

North Cannon River Watershed Management Organization

January 1, 2022 to November 16, 2022

Revenue and Expense Summary

	Jan 19 2022	April 20 2022	July 20 2022	Nov 16 2022	Final Entries	Annual Total	2022 Budget
General Fund							
<u>Revenues</u>							
Member Allocations	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$40,000.00
Interest - Savings Account	\$10.41	\$15.31	\$0.00	\$11.68	\$0.00	\$37.40	\$50.00
Interest - CD	\$15.79	\$15.30	\$15.83	-\$36.41	\$0.00	\$10.51	\$250.00
Total Revenues:	\$40,026.20	\$30.61	\$15.83	-\$24.73	\$0.00	\$40,047.91	\$40,300.00
<u>Expenses</u>							
Administrative Services	\$0.11	\$0.00	\$5,047.50	\$7,402.50	\$0.00	\$12,450.11	\$15,350.00
Administrative Services - WM Plan	\$0.00	\$0.00	\$3,017.50	\$3,612.50	\$0.00	\$6,630.00	\$6,800.00
Organizational Dues	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500.00	\$500.00
Advocacy, Education, Outreach	\$0.00	\$0.00	\$0.00	\$2,700.00	\$0.00	\$2,700.00	\$2,125.00
Education and Outreach GF	\$0.00	\$0.00	\$0.00	\$42.50	\$0.00	\$42.50	\$2,700.00
CS-Agricultural Projects	\$0.00	\$0.00	\$0.00	\$2,666.66	\$0.00	\$2,666.66	\$4,000.00
CS-Landscaping for Wtr Quality	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,000.00
Water Quality Monitoring	\$0.00	\$0.00	\$380.13	\$1,202.27	\$0.00	\$1,582.40	\$9,200.00
4th Generation WM Plan	\$3,538.00	\$7,480.00	\$8,818.00	\$5,938.00	\$0.00	\$25,774.00	\$25,000.00
5th Generation WM Plan	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500.00
Total Expenses:	\$4,038.11	\$7,480.00	\$17,263.13	\$23,564.43	\$0.00	\$52,345.67	\$70,175.00
Net Surplus / (-) Deficit	<u>\$35,988.09</u>	<u>-\$7,449.39</u>	<u>-\$17,247.30</u>	<u>-\$23,589.16</u>	<u>\$0.00</u>	<u>-\$12,297.76</u>	<u>-\$29,875.00</u>

4.3 Year-to-Date Financial Summary

North Cannon River Watershed Management Organization

January 1, 2022 to November 16, 2022

Watershed Based Funding Grant

WBF Grant	2018 Activity	2019 Activity	2020 Activity	2021 Activity	January 19 2022	April 20 2022	July 20 2022	Nov 16 2022	Final Entries	Annual Total	Cumulative Total	Budget
Grant Funds Received	\$68,260.00	\$0.00	\$0.00	\$0.00	\$54,608.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54,608.00	\$122,868.00	\$136,520.00
Expenses												
Grant Administration	\$88.31	\$246.95	\$449.44	\$1,914.24	\$0.00	\$0.00	\$662.00	\$527.50	\$0.00	\$1,189.50	\$3,888.44	\$5,726.00
Project Development	\$0.00	\$475.26	\$1,082.04	\$13,521.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,078.63	\$14,785.00
Agricultural Practices												
Not-Structural Practices	\$0.00	\$38,325.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38,325.00	\$38,325.00
Structural Practices	\$0.00	\$0.00	\$0.00	\$30,375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,375.00	\$34,014.00
Technical Engineering	\$0.00	\$2,396.80	\$0.00	\$747.96	\$0.00	\$10,068.71	\$0.00	\$0.00	\$0.00	\$10,068.71	\$13,213.47	\$13,020.00
Subwatershed Analysis	\$465.90	\$3,432.74	\$2,531.48	\$16,221.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22,651.13	\$23,650.00
Drainage Water Management	\$294.35	\$313.25	\$446.22	\$2,075.66	\$0.00	\$0.00	\$111.00	\$0.00	\$0.00	\$111.00	\$3,240.48	\$7,000.00
Drainage Water Management Exp	\$0.00	\$0.00	\$0.00	\$28.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.56	\$0.00
Total Expenses:	\$848.56	\$45,190.00	\$4,509.18	\$64,883.76	\$0.00	\$10,068.71	\$773.00	\$527.50	\$0.00	\$11,369.21	\$126,800.71	\$136,520.00
Grant Balance:	\$67,411.44	\$22,221.44	\$17,712.26	-\$47,171.50	\$72,320.26	\$62,251.55	\$61,478.55	\$60,951.05	\$60,951.05		-\$3,932.71	

4.3 Year-to-Date Financial Summary

North Cannon River Watershed Management Organization

January 1, 2022 to November 16, 2022

Balance Sheet

Assets

Cash in Checking	\$188.13
Cash in Savings	\$51,504.24
Certificate of Deposit 11236	<u>\$0.00</u>
Total Cash:	\$51,692.37

Accounts Receivable	\$0.00
Accounts Receivable WBF Grant	\$3,932.71
Total Assets:	<u>\$55,625.08</u>

Liabilities and Equity

Accounts Payable	\$23,564.43
Accounts Payable WBF Grant	<u>\$527.50</u>
	\$24,091.93

Grant Funds Deferred	\$0.00
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Equity

General Fund Balance January 1	\$43,830.91
Fund Balance Reserved for WP (Expended)	\$0.00
Net Surplus / (-) Deficit	<u>-\$12,297.76</u>
Total Equity:	\$31,533.15

Total Liabilities and Equity:	<u>\$55,625.08</u>
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NCRWMO
DRAFT 2023 Budget

**5.2 Approve 2023
Budget and Dues**

EXPENSES	AMOUNT	NOTES
Administrative Services	\$16,400	See SWCD Work Plan: Based on 4 meetings 170 hours @ \$90/hour Plus website domain and mailing expenses
Administrative Services for 4th Generation Watershed Management Plan	\$7,200	See SWCD Work Plan: Coordination 40 hours @ \$90/hour Formal review process 40 hours @ \$90/hour
Financial Audit	\$0	Annual Audit: Needed in 2025 on 1 of 5 past years
Water Quality Monitoring	\$9,759	See SWCD Work Plan: Increased in 2023 due to SWCD rate increase and chloride sampling
Agricultural Cost Share Program	\$4,000	See SWCD Work Plan: \$3,000 project funding and \$1,000 technical
Landscaping for Clean Water	\$4,050	See SWCD Work Plan: 3 projects (raingarden, native garden, or shoreline) plus Introduction Class and Design Courses
Advocacy, Education and Outreach	\$2,250	See SWCD Work Plan: 25 hours @ \$90/hour
Support Existing Education Programs	\$2,700	Sponsor a team to monitor wetlands through the Wetland Health Evaluation Program (WHEP) or other programs approved by the Board.
4th Generation Watershed Management Plan	\$3,000	Plan is to be completed by August 2023, majority of cost incurred in 2022. Remaining costs are for formal review process, edits and approval process.
5th Generation Watershed Management Plan Reserves	\$1,500	Next generation Watershed Plan required in 2033.
Organizational Dues	\$500	Membership to applicable and approved organizations: Cannon River Watershed Joint Powers Board or other approved by NCRWMO.
TOTAL EXPENSES	\$51,359	
REVENUES	AMOUNT	NOTES
Member Allocations	\$40,000	Same as 2022
Projected Interest	\$300	Same estimate as 2022
Use of Fund Balance	\$11,500	From general reserve
TOTAL REVENUES	\$51,800	
TOTAL BUDGET SURPLUS/(DEFICIT)	\$441	

5.2 Approve 2023 Budget and Dues

COMMUNITY	Code	% Watershed	Tax Capacity in Watershed	% Tax Capacity	50/50 Share	2023 Member Dues	2022 Member Dues	Difference
Townships								
Castle Rock Township	7	10.31	1.58	11.54	10.93	\$4,370.30	\$4,318.40	\$51.90
Douglas Township	9	17.78	1.50	10.98	14.38	\$5,752.56	\$5,815.61	-\$63.05
Eureka Township	13	7.43	0.87	6.32	6.87	\$2,749.36	\$2,704.87	\$44.49
Greenvale Township	16	19.97	2.29	16.73	18.35	\$7,340.06	\$7,188.02	\$152.04
Hampton Township	17	15.68	1.58	11.52	13.60	\$5,438.70	\$5,590.04	-\$151.34
Randolph Township	31	6.98	2.44	17.82	12.40	\$4,960.06	\$4,871.47	\$88.59
Sciota Township	35	9.99	1.17	8.55	9.27	\$3,707.94	\$3,690.95	\$16.99
Waterford Township	41	9.90	1.35	9.83	9.87	\$3,946.10	\$4,066.06	-\$119.96
Cities								
Miesville	28	1.17	0.27	1.94	1.55	\$621.41	\$652.24	-\$30.83
New Trier	29	0.12	0.10	0.70	0.41	\$165.14	\$158.47	\$6.67
Randolph	32	0.67	0.56	4.08	2.37	\$948.36	\$943.87	\$4.49
TOTALS		100.00	13.70	100.00	100.00	\$40,000.00		

5.3 Approve 2023
Workplan with SWCD

2023 Work Plan and Budget
North Cannon River Watershed Management Organization

Task	Calculation			Sub-total
	Hours	Rate	Fees	
Administration				
Financial Reports and Budget Performance	10	\$90.00	\$0.00	\$900.00
Calculate and report for each meeting fund balances on CDs, savings, and checking accounts and update budget performance report, assist Auditor with audit as needed.				
Board Meeting Preparation - Based on 4 Meetings	60	\$90.00	\$100.00	\$5,500.00
1) Assemble Board packet 2) Meeting space coordination 3) Maintain Board Member list 4) Distribute packet, agenda, minutes		Fee is for paper and postage		
Annual Reports and Plans	25	\$90.00	\$0.00	\$2,250.00
Meet BWSR requirements by developing and submitting reports.				
Annual Budget and Dues	15	\$90.00	\$0.00	\$1,350.00
Prepare annual budget. Calculate dues based on tax capacity. Invoice members for payment.				
Watershed Management Plan	80	\$90.00	\$0.00	\$7,200.00
Coordinate with the consultant, Board and partners on developing the 4th generation Plan. Lead public engagement strategies and the Plan approval process.		Coordination 40 hours Approval process 40 hours		
General Correspondence	40	\$90.00	\$0.00	\$3,600.00
Coordinate with local, regional and state entities.				
Administration Total				\$20,800.00

Education and Outreach		Hours	Rate	Fees	
Website Hosting and Maintenance	20	\$90.00	\$1,000.00	\$2,800.00	
Host and maintain a website, as required by BWSR, with meeting information, plans, reports, grants and other information.		Fee is for web hosting			
Advocacy and Outreach	25	\$90.00	\$0.00	\$2,250.00	
Implement the advocacy, education and outreach strategies within the Watershed Management Plan.					
Landscaping for Clean Water (LCW)			\$1,800.00	\$1,800.00	
Provide access to the Landscaping for Clean Water: Introduction Class Materials, Design Course Materials and Maintenance Workshop <i>Includes online registration, partner coordination, presentation creation and updates, creation of education and outreach materials, participant tracking, one-on-one design assistance. Note: classes may be virtual in 2023</i>		Lump fee for NCRWMO residents to participate in LCW			
Education and Outreach Total				\$6,850.00	

2023 Work Plan and Budget
North Cannon River Watershed Management Organization

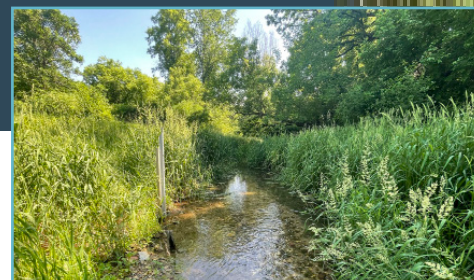
Technical Assistance		Hours	Rate	Fees
Water Monitoring		95	\$90.00	\$1,209.00
Staff time for routine and event sampling. Lab analysis for bacteria, nutrients and soils. Data analysis, compilation and reporting to MPCA. Create report and present findings to NCRWMO Board.		Fee is for 12 samples Estimated 8 routine and 4 runoff events at \$90.25 each Plus 8 chloride samples at \$15.75		
Landscaping for Clean Water			\$1,500.00	\$1,500.00
Technical assistance to homeowners including layout, mid-point and final inspections for raingardens, native plantings and shoreline stabilizations.		\$500 times 3 projects		
Conservation Projects			\$1,000.00	\$1,000.00
Technical and administrative assistance to execute landowner contracts, provide construction oversight and certify completion of the project.				
Technical Assistance Total				\$12,259.00

Cost Share		Fees	
Landscaping for Clean Water		\$750.00	\$750.00
Provide cost share to landowners for projects including raingardens, native plantings and shoreline stabilization projects consistent with SWCD cost share policies.		\$250 times 3 projects	
Conservation Projects		\$3,000.00	\$3,000.00
Provide cost share to landowners for implementing conservation projects through existing SWCD cost share programs.			
Cost Share Total			\$3,750.00

Total Agreement Not-to Exceed			\$43,659.00
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Note: Additional items may be required of the SWCD during the workplan timeframe and individual budget amounts may change as work progresses. If proposed changes are to exceed the total agreed amount, this work plan will then be amended and re-executed by the NCRWMO and SWCD.

North Cannon River Watershed 2021 Water Monitoring Report



Surface Water Monitoring Sites by Subwatershed

Chub Creek - 4
Pine Creek - 1
Trout Brook - 3

Monitoring Schedule

1x per month
April - October

Monitoring Parameters

Physical - Chlorophyll-a,
Conductivity, Dissolved Oxygen,
pH, Sediment, Temperature

Nutrients - Nitrates, Phosphorus

Bacteria - *E. coli*

Streamflow and stage

Trout Brook Groundwater Monitoring

Quarterly nitrate monitoring
at *four* sentinel springs -
Beaver, Fox,
Le Duc, Swede

and *three* surface water
monitoring sites -
TB1, TB2, TB3

Chub Creek Watershed

Chub Creek • Dutch Creek • Mud Creek • North Branch Chub Creek

Impairments

Chub Creek

Macroinvertebrates (2014)

Fishes (2014)

Fecal Coliform (2004)

Dutch Creek

Macroinvertebrates (2016)

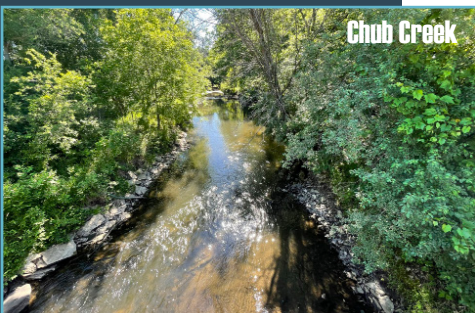
Fishes (2016)

Mud Creek

Fecal Coliform (2006)

North Branch Chub Creek

Fecal Coliform (2006)



Four major rain events hit the watershed during the 2021 monitoring season – February, March, May, and August. Following each event, water levels increased quickly in response to the influx of water running off the land and entering the stream. Due to its size and several tributaries, Chub Creek is not a very flashy system, taking multiple days to flush the water out and return to baseflow conditions.

Dutch Creek

Downstream of a wetland complex. **Low dissolved oxygen. Warmest water temperature** of the four sites. **Very low chlorophyll-a, nitrate, total phosphorus, and total suspended solid** levels all season. **E. coli spike mid-summer**, but low overall.

North Branch Chub Creek
Lowest water temperatures and conductivity in the watershed. **Nitrate levels are just below the drinking water standard. High E. coli levels** starting mid-summer and continuing through fall. **Suspended solids increase** in the latter part of the season. **suspended solid** levels all season. **E. coli spike mid-summer**, but low overall.

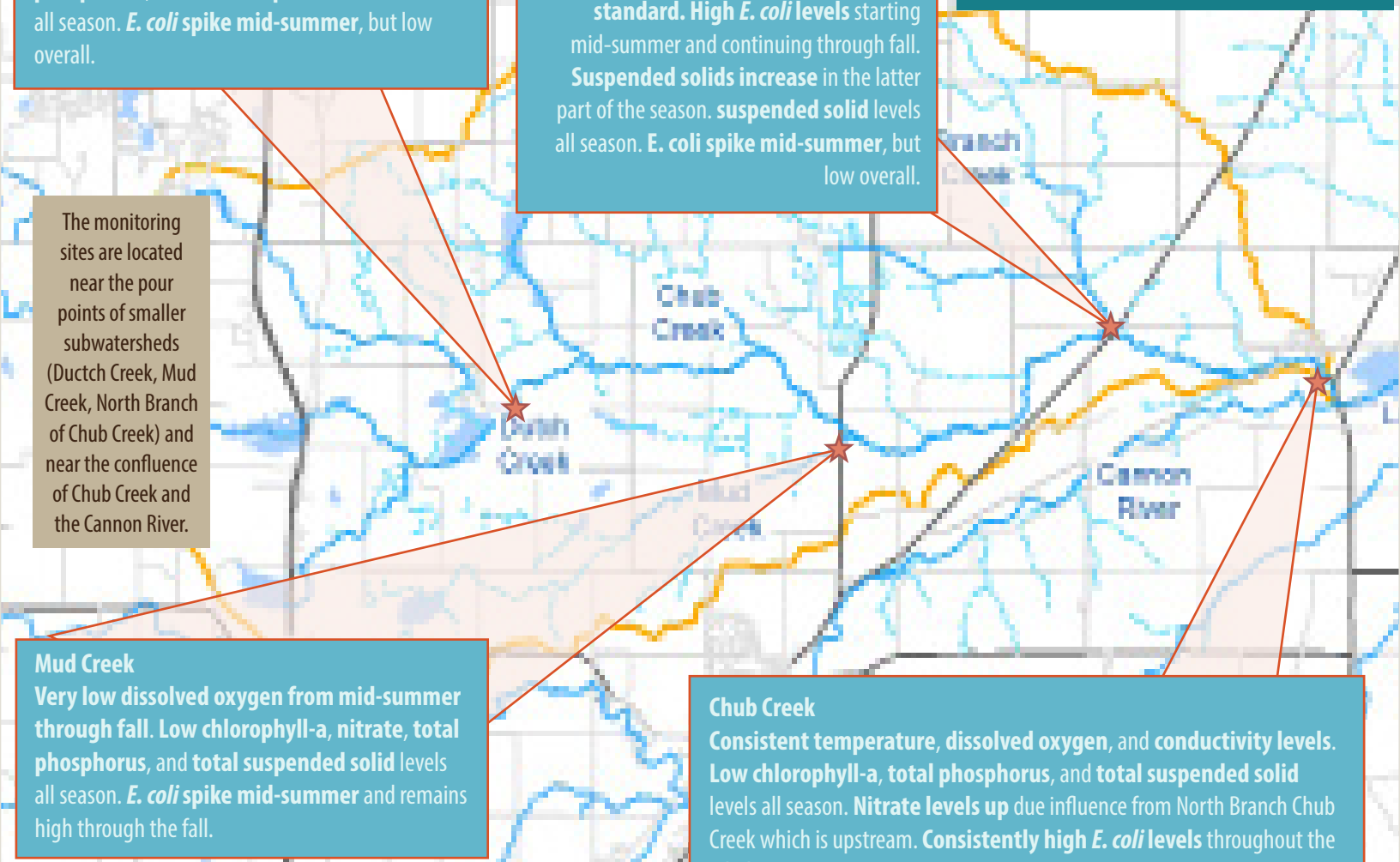
The monitoring sites are located near the pour points of smaller subwatersheds (Dutch Creek, Mud Creek, North Branch of Chub Creek) and near the confluence of Chub Creek and the Cannon River.

Mud Creek

Very low dissolved oxygen from mid-summer through fall. **Low chlorophyll-a, nitrate, total phosphorus, and total suspended solid** levels all season. **E. coli spike mid-summer** and remains high through the fall.

Chub Creek

Consistent temperature, dissolved oxygen, and conductivity levels. **Low chlorophyll-a, total phosphorus, and total suspended solid** levels all season. **Nitrate levels up** due influence from North Branch Chub Creek which is upstream. **Consistently high E. coli levels** throughout the whole season.



Pine Creek Watershed

• Pine Creek

Impairments
Nitrates (2010)



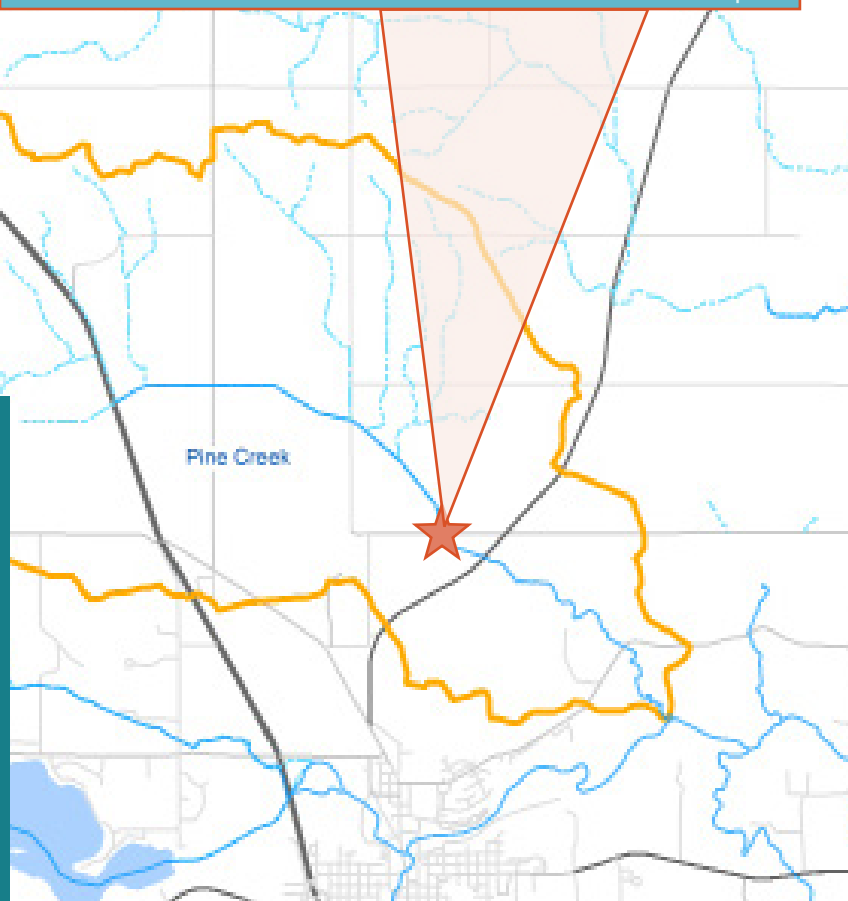
Pine Creek
Water temperature is low, remaining in the optimum range for brown trout (< 18 degC) for the entire monitoring season. Dissolved oxygen is above the standard for cold water streams. Conductivity is lower than what is found in both the Chub Creek and Trout Brook watersheds.

E. coli and nitrate levels are a big concern in the watershed. **E. coli was above the standard** for five of the seven monitoring events (below in April and October). **Nitrate was at or exceeded the drinking water standard** for six of the seven samples.

Four major rain events hit the watershed during the 2021 monitoring season – February, March, May, and August. Following each event, water levels increased quickly in response to the influx of water running off the land and entering the stream. Due to its size, Pine Creek is a very flashy stream, returning to baseflow conditions very quickly after each event.

Water quality sampling in the Pine Creek watershed first occurred in 2006 and continued until 2010, before restarting again in 2018. These activities occurred at three sites in the watershed - the current site at the bottom of the watershed, as well as two sites further upstream that are not currently monitored. Monitoring provides natural resource managers with a longterm dataset to use when evaluating watershed health and determining management activities.

Monitoring Partner - Minnesota Department of Natural Resources (MNDNR)
PC3 is part of the MNDNR's stream monitoring program. Water temperature and level are continuously monitored and flow measurements are collected intermittently.



Trout Brook Watershed

Trout Brook • Unnamed Tributary

Impairments

Turbidity (2006)

Nitrates (2010, 2018*)

Macroinvertebrate (2014, 2014*)

*different branches



TB1 - Unnamed Trib



TB2 - Mainstem



TB3 - Mainstem: outlet of watershed

Surface and groundwater monitoring activities occur in and around Trout Brook. Three surface water sites are monitored during the field season, testing water from the tributary and mainstem upstream of their confluence, as well as at the bottom of the watershed.

These sites part of the MNDNR's stream monitoring program. Water temperature and level are continuously monitored and flow measurements are collected intermittently by MNDNR staff.

Four major rain events hit the watershed during the 2021 monitoring season – February, March, May, and August. Following each event, water levels increased quickly in response to the influx of water running off the land and entering the stream. Trout Brook responded to the first few rain events and returned to baseflow very quickly. Rain events later on in the season had little impact on stream discharge.

TB1

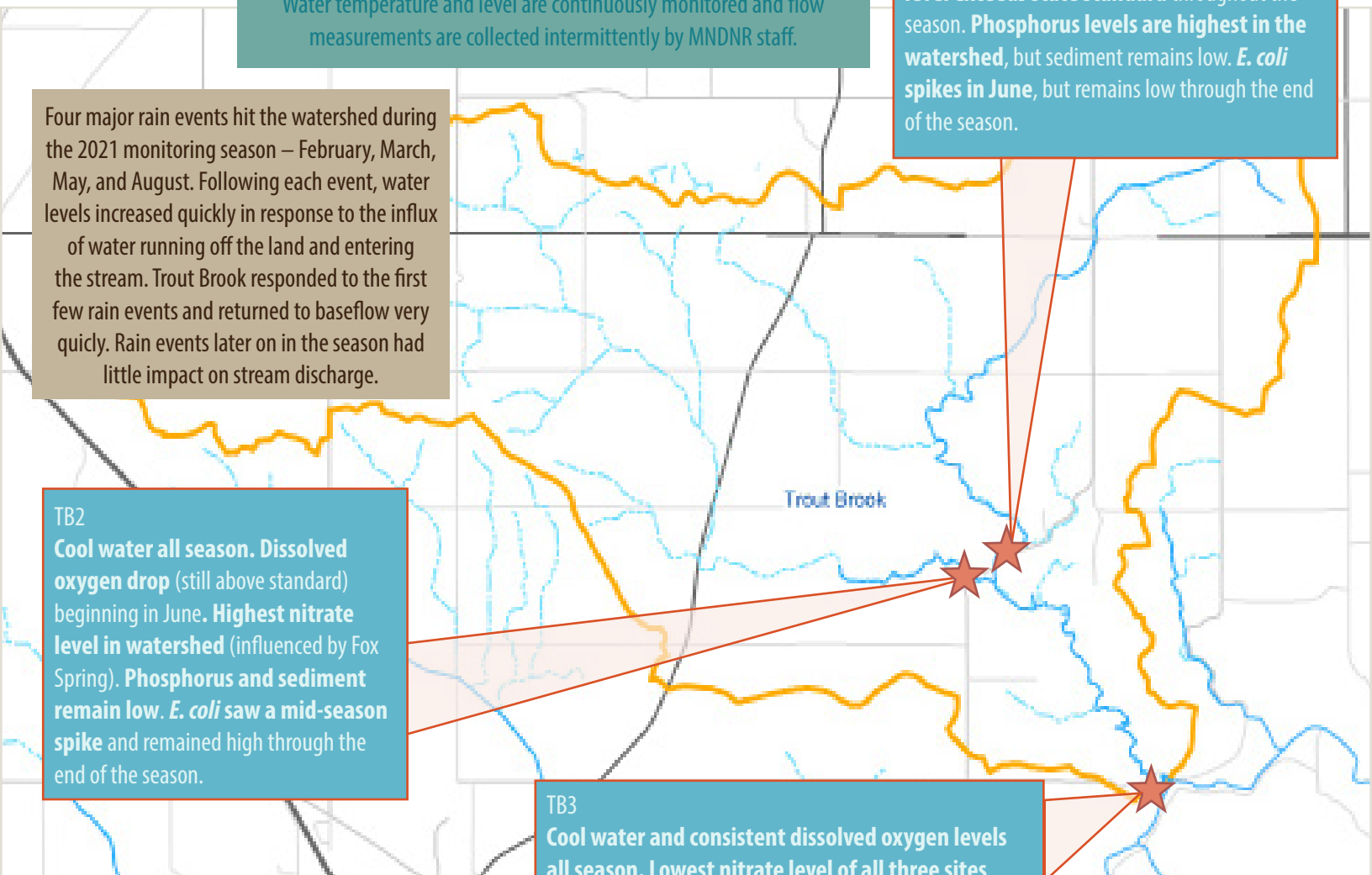
Cool water all season. Dissolved oxygen drop (still above standard) beginning in June. **Nitrate level exceeds state standard** throughout the season. **Phosphorus levels are highest in the watershed**, but sediment remains low. ***E. coli* spikes in June**, but remains low through the end of the season.

TB2

Cool water all season. Dissolved oxygen drop (still above standard) beginning in June. **Highest nitrate level in watershed** (influenced by Fox Spring). **Phosphorus and sediment remain low. *E. coli* saw a mid-season spike** and remained high through the end of the season.

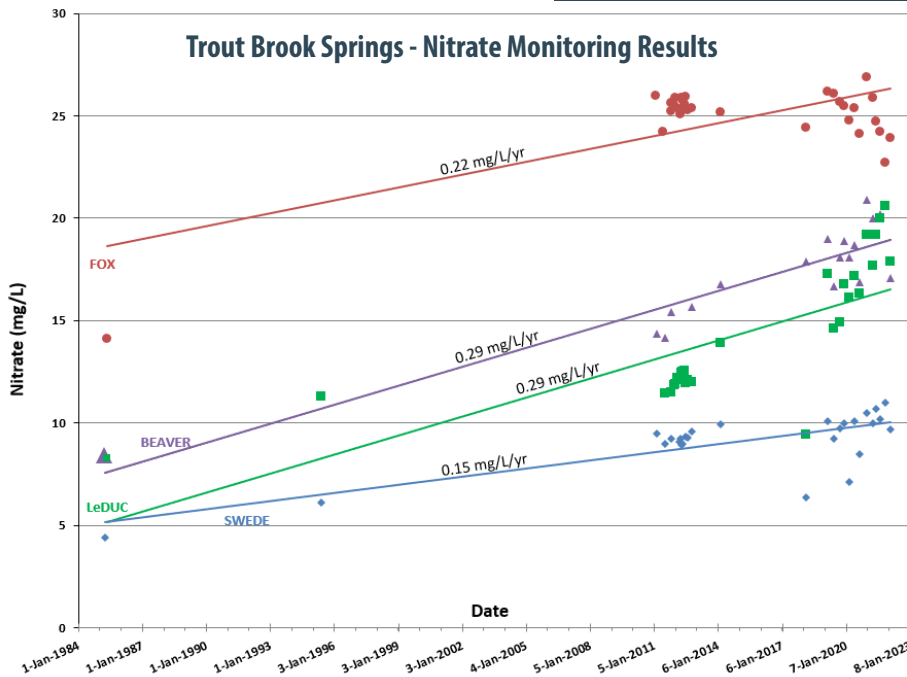
TB3

Cool water and consistent dissolved oxygen levels all season. Lowest nitrate level of all three sites (possibly influenced by groundwater influx). **Phosphorus and sediment remained low all season. *E. coli* spike in the summer months, back down in the early fall.**



Trout Brook Watershed

Beaver Spring • Fox Spring • LeDuc Spring • Swede Spring



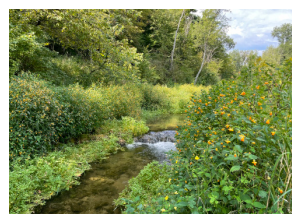
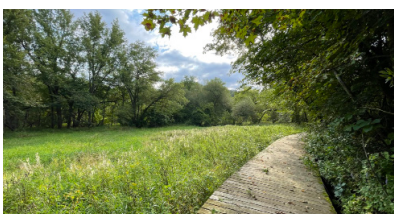
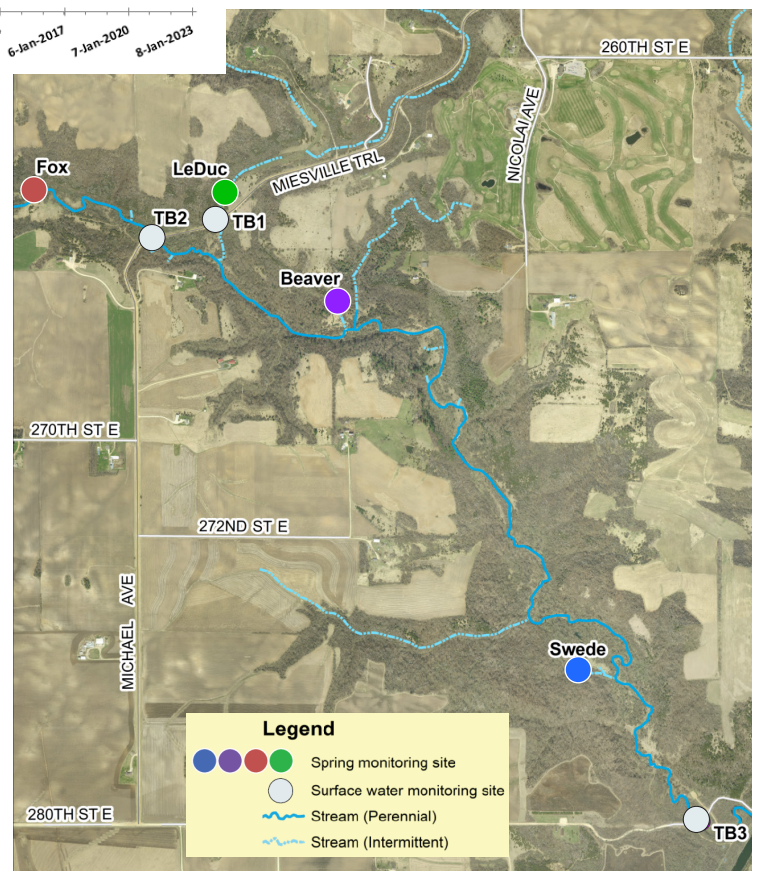
Nitrate levels at all four sentinel springs continue to rise. Fox Spring (red; top of the watershed) has the highest levels and Swede Spring (blue; bottom of the watershed) has the lowest nitrate levels in the watershed. All sites have nitrate levels above the state drinking water standard (10 mg/L).

Sentinel Springs - Beaver, Fox, Le Duc, Swede

Spring monitoring in the Trout Brook watershed began as a one off effort in 1985. A monitoring strategy was developed as part of the NCRWMO's watershed management plan, resulting in regular monitoring at the same four springs beginning in 2011.

Sampling frequency increased to quarterly in order to get a higher resolution dataset to better understand nitrate levels in the watershed over time.

Monitoring is supported by Dakota County Parks.



2022 LANDSCAPING FOR CLEAN WATER PROGRAM SUMMARY



PROVIDING LANDOWNERS WITH THE SKILLS AND RESOURCES NEEDED TO PROTECT LOCAL WATER QUALITY AND PROVIDE HABITAT FOR POLLINATORS THROUGH THE INSTALLATION OF BEAUTIFUL RAINGARDENS, NATIVE GARDENS, AND NATIVE SHORELINE PLANTINGS.

LANDSCAPING FOR CLEAN WATER



2022 BY THE NUMBERS

355	INDIVIDUALS PARTICIPATED IN INTRODUCTION CLASSES
176	PROJECTS DESIGNED AS PART OF VIRTUAL DESIGN WORKSHOPS
39	RAINGARDENS & NATIVE GARDENS & SHORELINES INSTALLED
3	GRANT ROUNDS WITH 12 WEEK INSTALLATION TIMELINES
52	PEOPLE RECEIVED ONE-ON-ONE ASSISTANCE VIA ZOOM
93	INDIVIDUALS PARTICIPATED IN MAINTENANCE WORKSHOPS

Rusty-Patched
Bumble Bee
2021 LCW
Native Garden



"I loved having support to make sure I was completing the project correctly."

"It was a wonderful experience all around. Will recommend."

2022 LCW Participants



The Landscaping for Clean Water program - Introduction class, Design course, and Maintenance workshop - was offered remotely again in 2022.

2022 FINANCIAL CONTRIBUTORS



2022

LANDSCAPING FOR CLEAN WATER PROGRAM SUMMARY

Thank you to everyone who joined the cause to reduce pollution, improve water quality, and increase pollinator habitat on your property this year!

Participation at any level - watching the Introduction to Clean Water video, installing a project with the Design Course, or learning some tips and tricks on how to properly maintain your garden with the Maintenance Workshop series - helps to spread interest and know-how to all corners of Dakota County.

Summary of the 2022 participants by City

Apple Valley

Introduction class attendees	67
Projects designed	32
Installed raingardens	4
Installed native gardens	1
Installed Shoreline Planting	1

Burnsville

Introduction class attendees	44
Projects designed	32
Installed raingardens	4
Installed native gardens	3

Eagan

Introduction class attendees	56
Projects designed	24
Installed raingardens	4
Installed native gardens	1

Farmington

Introduction class attendees	12
Projects designed	1

Hastings

Introduction class attendees	12
Projects designed	5

Inver Grove Heights

Introduction class attendees	13
Projects designed	3
Installed raingardens	1
Installed native gardens	1

Lakeville

Introduction class attendees	39
Projects designed	23
Installed raingardens	2
Installed native gardens	3

Mendota Heights

Introduction class attendees	17
Projects designed	8
Installed raingardens	1
Installed native gardens	1

Rosemount

Introduction class attendees	34
Projects designed	18
Installed raingardens	1
Installed native gardens	1

South Saint Paul

Introduction class attendees	24
Projects designed	7
Installed raingardens	2

Sunfish Lake

Introduction class attendees	4
Projects designed	2

West Saint Paul

Introduction class attendees	18
Projects designed	11
Installed raingardens	4
Installed native gardens	1

Installed in partnership with Ramsey County

Raingardens—St. Paul	3
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Non-Dakota County Introduction Participant Cities

Bloomington, Dundas, Maplewood,
Minneapolis, Saint Paul, Savage,
Stillwater, Waite Park, Woodbury



2022 PARTNERS

Cities

- Apple Valley
- Burnsville
- Eagan
- Lakeville
- Rosemount
- South St Paul

Dakota County

Ramsey County



FIFTEEN YEARS OF CLEAN WATER ACCOMPLISHMENTS

Workshop Participants
2007-2022 **5,491**

Projects Completed
2007-2022 **705**