BOARD OF WATER AND SOIL RESOURCES 520 LAFAYETTE ROAD NORTH ST. PAUL, MN 55155 WEDNESDAY, MARCH 23, 2022

AGENDA

9:00 AM CALL MEETING TO ORDER

PLEDGE OF ALLEGIANCE

ADOPTION OF AGENDA

MINUTES OF JANUARY 26, 2022 BOARD MEETING

PUBLIC ACCESS FORUM (10-minute agenda time, two-minute limit/person)

INTRODUCTION OF NEW STAFF

- Singer Macrae, Contracts Accountant
- Sumbal Rana, Office and Administrative Specialist

CONFLICT OF INTEREST DECLARATION

A conflict of interest, whether actual, potential, or perceived, occurs when someone in a position of trust has competing professional or personal interests, and these competing interests make it difficult to fulfill professional duties impartially. At this time, members are requested to declare conflicts of interest they may have regarding today's business. Any member who declares an actual_conflict of interest must not vote on that agenda item. All actual, potential, and perceived conflicts of interest will be announced to the board by staff before any vote.

REPORTS

- Chair & Administrative Advisory Committee Gerald Van Amburg
- Executive Director John Jaschke
- Audit & Oversight Committee Joe Collins
- Dispute Resolution and Compliance Report Travis Germundson/Rich Sve
- Grants Program & Policy Committee Todd Holman
- RIM Reserve Committee Jayne Hager Dee
- Water Management & Strategic Planning Committee Joe Collins
- Wetland Conservation Committee Jill Crafton
- Buffers, Soils & Drainage Committee Mark Zabel
- Drainage Work Group Neil Peterson/Tom Gile

AGENCY REPORTS

- Minnesota Department of Agriculture Thom Petersen
- Minnesota Department of Health Steve Robertson
- Minnesota Department of Natural Resources Sarah Strommen
- Minnesota Extension Joel Larson
- Minnesota Pollution Control Agency Katrina Kessler

ADVISORY COMMENTS

- Association of Minnesota Counties Brian Martinson
- Minnesota Association of Conservation District Employees Nicole Bernd
- Minnesota Association of Soil & Water Conservation Districts LeAnn Buck
- Minnesota Association of Townships Eunice Biel
- Minnesota Association of Watershed Districts Emily Javens
- Natural Resources Conservation Service Troy Daniell

COMMITTEE RECOMMENDATIONS

Grants Program and Policy Committee

- 1. FY 22/23 Clean Water Fund Soil Health Grants Tom Gile DECISION ITEM
- 2022 Request for Proposals for One Watershed, One Plan Planning Grants Julie Westerlund DECISION ITEM
- 3. Lawns to Legumes Phase 2 Demonstration Neighborhood Grant Program Funding Recommendation Dan Shaw *DECISION ITEM*

Central Region Committee

1. Carnelian-Marine-St. Croix Watershed Management Plan – Michelle Jordan – *DECISION ITEM*

RIM Reserve Committee

- Reinvest in Minnesota (RIM) Easement #08-09-93-02 Alteration for Public Road Project Karli Tyma – *DECISION ITEM*
- 2. Resolution Authorizing the Reinvest in Minnesota (RIM) Reserve Working Lands Conservation Code and Cost Share Rates Bill Penning *DECISION ITEM*

NEW BUSINESS

1. Value of BWSR Storytelling presentation – Mary Juhl and Ann Wessel – *INFORMATION ITEM*

UPCOMING MEETINGS

- Grants Program and Policy Committee is scheduled for Monday, March 28, 2022, at 9:00 a.m. in the Lower Level Conference Rooms at 520 Lafayette Road North, St. Paul and by WebEx.
- Southern Regional Committee is scheduled for Wednesday, March 30, 2022, at 1:00 p.m. at Murray Soil and Water Conservation District, 2740 22nd Street, Slayton, and by Microsoft Teams.
- Grants Program and Policy Committee is scheduled for Monday, April 11, 2022, at 9:00 a.m. in the Lower Level Conference Rooms at 520 Lafayette Road North, St. Paul and by WebEx.
- Southern Region Committee is scheduled for Tuesday, April 19, 2022, at 9:30 a.m. in person, location TBD.
- Wetland Conservation Committee is scheduled for Thursday, April 21, 2022, at 9:00 a.m. location TBD and by Microsoft Teams.
- BWSR Board meeting is scheduled for Wednesday, April 27, 2022, at 9:00 a.m. in the Lower Level Conference Rooms at 520 Lafayette Road North, St. Paul and by WebEx.

ADJOURN



Internal Memo

Date: March 23, 2022
To: BWSR Board

From: Julie Westerlund, One Watershed, One Plan Program Coordinator

RE: One Watershed, One Plan Program Update

This memo gives an update on One Watershed, One Plan Planning efforts, including developments since the last program update for the BWSR board in August 2021.

The table below provides a summary of progress to date on the goals in BWSR's *One Watershed, One Plan Transition Plan.*

Year	Planning Grants Aw	1W1P Completed	
	Transition Target	Grants Awarded	(cumulative)
2014-15	5	5	0
2016	6 (11)	7 (12)	2
2017	6 (17)	6 (18)	2 (4)
2018	7 (24)	9 (27)	1 (5)
2019	7 (31)	3 (30)	5 (10)
2020	7 (38)	8 (38)	9 (19)
2021	7 (45)	11 (49)	5 (24)
2022	7 (52)	*	1 (25)

^{*}anticipate planning grants will awarded in August of 2022, keeping us on track with the transition plan.

I have also attached a map of participating planning boundaries and a list of the local governments that are participating in each planning effort for your information.

Please see planning websites (linked in the interactive map on the BWSR *One Watershed, One Plan – Participating Watersheds* web page) for more information about individual planning efforts.

In this memo, "plan" = comprehensive watershed management plan. "Collaborative" refers to an implementation structure in which the policy committee is advisory to the boards, who make final decisions. "Entity" refers to a new joint powers board that has been delegated authority to make decisions by the member entities. All dates are 2022 unless otherwise specified.

Approved Plans

The following planning partnerships have completed their plans and are now implementing them: Root River; Yellow Medicine River; Lake Superior North; Red Lake River; North Fork Crow River; Leech Lake River; Lake of the Woods; Pine River; Missouri River; Cedar Wapsipinicon; Thief River; Cannon River; Pomme de Terre River; Leaf, Wing, Redeye; Buffalo-Red River; Lower St. Croix; Nemadji; Wild Rice – Marsh River; Watonwan River; Bois de Sioux and Mustinka; Two Rivers Plus; Sauk River; Mississippi Headwaters; Greater Zumbro; Hawk Creek-Middle Minnesota.

2018 Starts

Rum River: The partnership submitted the plan on March 11 with the intention of consideration by the Central Region committee and Board in May. The DNR has some concerns regarding the language related to the Anoka Dam; we will be working with the project partners to see if we can come to some mutually agreeable language or understanding.

Shell Rock River and Winnebago Watershed: The partnership started the 60-day review and comment period on the draft plan on November 1st, 2021. All state water quality agencies submitted comment letters within the 60-day comment period. The partnership held a public hearing on January 20th and submitted the plan for consideration by BWSR on February 17; the Southern Region Committee will discuss the plan on March 30th and will bring their recommendation to the Board on April 27th.

2019 Starts

Lower Minnesota River West: The planning partnership discussed the draft implementation schedule and took recommendations to the Policy Committee for approval. Planning partners were asked to estimate staff time and expenses that organization spends on to water and natural resource management issues to balance implementation ambition with feasibility. Partners also assessed hydrologic benefits at 18 potential project sites across the 6 planning subwatersheds to set a water storage goal. They are looking a small, medium and large storage area in each of the planning watersheds using a HEC-HMS hydrologic model to generate results (e.g. impact on flows, storage) in a way that is scalable across the planning area. In late March, the steering team will discuss watershed modeling with HSPF SAM.

Snake River: The partnership is currently working on the targeted implementation schedule. The partners are doing excellent work thinking through how they will reasonably accomplish their goals, especially considering how few staff are at these local governments. This will help them quickly transition to implementation. The policy committee is working with the Snake River Watershed Management Board to craft a new Joint Powers Agreement that will meet the intent of both the original Snake River Watershed Management Board and fulfill the 1W1P program requirements. Their work on the JPA early in the process shows a commitment to the planning effort and a strong interest in looking into the future.

St. Louis River: The partnership developed goals and priority issue statements for their priority areas. They have been working on targeted actions for implementation, including holding an additional stakeholder meeting for partners that work specifically in the Duluth Urban watershed. The Policy committee will meet in April to approve the implementation items. Due to the size of the watershed and the amount of stakeholder

engagement, prioritization took more time than expected; BWSR granted a grant agreement extension to December 31st 2023 at the partnership's request.

2020 Starts

Clearwater River: The partnership is making very good progress, including completing PTMApp and reviewing the data with the advisory committee. The steering committee had met fourteen time and the policy committee has met approximately every other month to review draft plan chapters. Because they were able to refine their implementation strategies rapidly, they've accelerated their timeline by about six months and are currently planning to initiate an internal/informal review in May or June, followed by the 60 day formal review. Anticipated consideration by BWSR board: Fall 2022.

Des Moines River: The partnership finalized and approved priority issues, priority areas and five separate planning regions. They established measurable goals and assigned short term and long-term values, established input data, assumptions, and resource points for PTMApp, and prioritized resources for associated subwatersheds. The DNR hydrologist presented an evaluation of hydrologic change in the watershed and the group discussed drainage management planning with local ditch inspectors. They also went over funding ratios for implementation and the implementation scenarios based on the model results. The policy committee approved the Introduction and Priority Issues sections and discussed the layout and content for the measurable goals section. In March the group will talk about options for implementation structures. Anticipated consideration by BWSR board: Fall 2022.

Lac qui Parle- Yellow Bank: The partnership completed the land and water narrative and have identified priority resources and issues sections of the plan. They have also completed an initial round of identifying geographical priority areas for each issue statement. They will soon be starting work on setting goals and discussing implementation. Anticipated consideration by BWSR board: Spring 2023.

Le Sueur: The partnership is making good time with their planning progress. They held an outdoor kick-off in September 2021. The advisory committee has been meeting monthly to assist in developing plan issue statements, goals, strategies, and actions. In early April they will hold a mid-point meeting for the citizens of the watershed to share plan progress and get additional feedback. They have also started talking about their organizational structure for implementation. They are on track with their timeline. Anticipated consideration by BWSR board: Summer 2023.

Long Prairie: The partnership is making steady progress and coming down the home stretch. They have finalized goals (agricultural land management, forest land management, phosphorus reduction, bacteria reduction and runoff reduction) and are developing implementation tables with actions, costs, and measurable improvements. SWCD and county staff were both equally involved in the planning process which is making for a well-rounded plan. The policy committee had a robust discussion about organizational structure and decided on a joint powers collaborative. They (PC) have been very engaged and have shown tremendous leadership in developing the plan. The plan is undergoing internal review now with the intention of a formal 60-day comment period this spring and consideration by BWSR in summer 2022.

Middle-Snake Tamarac: The partnership's committees continue to meet and are making great progress on plan development. All sections of the plan are drafted and, pending policy committee approval of plan sections,

the consultant will initiate for informal review of a full draft in late March and start the formal 60-day review in May. Anticipated consideration by BWSR: Fall 2022.

Otter Tail: The plan kicked off in earnest in September 2021 with the close of the initial comment period, two public open houses, and a bus tour. All five state water agencies submitted comments and presented their priority concerns to the technical advisory committee and on the bus tour. Also during the bus tour local staff pointed out the resource and land use characteristics. At the open houses in Detroit Lakes and Fergus Falls, participants offered input on potential issues and opportunities. In January the citizen advisory committee prioritized issues and developed a draft vision statement. The policy committee tentatively approved the Land and Water Narrative section and the resource issue statement priorities. They also agreed to expectations for and an approach to keeping the six individual LGU boards updated and informed. They are currently working on measurable goals and will start talking about implementation in early summer. They anticipate informal review of the plan in late summer, formal review in fall 2022, and consideration by BWSR in Winter 2023.

Winona-La Crescent: Greater Zumbro River: The partnership held a well-attended public kickoff in Winona (September 2021). The partners established their priority issues and identified priority subwatersheds/areas for the issues. They also developed measurable goals with help from PTMApp and other information. They are currently seeking further public input on the priority areas, goals, and implementation activities through a series of "waterside chats" across the planning area. In addition, the City of Winona began hosting the We Are Water exhibit on March 3rd which is being used to further engage citizens in the planning process.

2021 Starts

Chippewa River: This partnership is using an established Joint Powers Agreement for their planning agreement. They have completed their work plan and received their planning grant. The partnership hired a consultant and issued their initial notification with responses due on March 22. They have a public kickoff meeting planned for April 5th in Glenwood. The partnership has drafted the Land and Water Narrative and issue statements and they have selected a logo for their plan.

Kettle and Upper St. Croix: All partners have signed the Memorandum of Agreement (MOA) for planning, completed a work plan, and received their planning grant. The partnership will soon have their second monthly policy committee meeting where they will approve hiring a consultant for facilitation services, start planning for a public kickoff meeting in June, appoint advisory committee members, and approve sending the initial notification to plan.

Lower MN River East: The partnership is in the process of getting signatures on their planning agreement (MOA); they have completed their work plan and will receive their planning grant when the final partners sign the MOA. The policy committee held its first (informational) meeting in December 2021. They are developing bylaws and sub-agreements and have distributed a request for qualifications for consulting services.

Mississippi River Brainerd: All partners have signed the planning agreement (MOA), submitted their work plan, and are in the process of completing their grant agreement. They are in discussions with consultants, including the Region Five Development Commission (facilitation services). The first policy committee meeting is set for March 28, 2022, when they will talk about the initial comment period, setting a date for the kickoff meeting and determining membership for the technical and citizens advisory committees.

Mississippi River St. Cloud: This partnership is facing a few early challenges regarding the formation of relationships and the understanding of how each partner will contribute and participate in the process. There have been a lot of discussions around the framing of the policy committee and the advisory committee structure and participation. In addition, there have been discussions related to how the organizations will retain features of the current water and watershed district plans within the new planning structure including such concepts as retaining statutory authorities and local levy expectations from the watershed district.

Rainy River Headwaters-Vermillion: All partners have signed the planning agreement (MOA), completed a work plan, and received their planning grant. BWSR staff has requested the opportunity to conduct an orientation training for the newly formed policy committee.

Rainy-Rapid River: All partners have signed planning agreement (MOA), completed a work plan, and received their planning grant. The initial comment period closed in November 2021. The partnership has a draft Land and Water Narrative and has started a series of four issue-based meetings. The kick -off meeting was delayed due to weather and Covid-19 with the hope of better engaging the small population of the watershed when the weather turns warmer.

Roseau River: All partners have signed the planning agreement (MOA), completed a work plan, and received their planning grant. The initial comment period closed in November 2021 and the partnership held a public kickoff meeting in Roseau in December 2021. During the first advisory committee meeting in March the partnership heard presentations from local governments and state agencies and had initial discussions around watershed issues. They have drafted a Land and Water Narrative and a list of issues.

Sand Hill River: All partners have signed planning agreement (MOA) and is in the process of completing their work plan. In March they will organize their policy committee, approve submitting their workplan, and decide on a schedule for their initial planning notification.

South Fork of the Crow River: All partners have signed the planning agreement (MOA), completed a work plan, and received their planning grant. They have hired a consultant and issued their initial planning notification. The initial comment period ended on March 7; only two state agencies submitted comments, so BWSR staff are working with the partnership and agencies to extend the comment period and get more agency input.

Upper Minnesota River: All partners have signed the planning agreement (MOA), completed a work plan, and received their planning grant. They issued their initial planning notification (comments due on April 4). They are in the process of hiring a consultant (they only had one response to their request for qualifications).

ATTACHMENTS:

Map of participating watersheds

List of participating local governments

One Watershed, One Plan Participating Watersheds Roseau River Lake of the Woods **Two Rivers Plus** Rainy -Rapid River Rainy River Headwaters -Middle-Vermillion River Thief Snake-River Tamarac-Rivers Red Lake Clearwater Mississippi River River River **Headwaters** Sand Hill River St. Louis River Wild Rice - Marsh Leech Lake Lake Superior North Nemadji River Pine River Mississippi River Brainerd Long Otter Tail Buffalo -Kettle and Upper St. Croix Prairie Redeye **Red River** River River Rum Legend River Mustinka/ Bois de 7 County Metro Area Sioux River Sauk 1W1P Planning Boundaries * Snake River Upper River Major Watersheds Minnesota Mississippi River River Chippewa Approved Plan St. Cloud River **Pomme** North Fork Start Year - 2018 de Terre **Crow River** Lower River Start Year - 2019 St. Croix South Fork of Lac qui Parlethe Crow River Start Year - 2020 Yellow Bank Start Year - 2021 Cannon **Lower Minnesota** Yellow River Greater River East Medicine Zumbro River River Le Sueur Winona/La Crescent **Hawk Creek** River **Root River** Middle Minnesota Missouri River Basin **Cedar River** Watonwan River BWSR **Des Moines** Lower Minnesota **Shell Rock River** River **River West** & Winnebago Watershed February 2022 *Not legal boundaries; intended for planning purposes through One Watershed, One Plan only.



Local and Tribal Governments Participating in the One Watershed, One Plan program. (Names have been truncated to conserve space.) Bold for 2021 = MOA complete.

		2	021		
Chippewa (16)	Kettle and Upper St. Croix (5)	Lower MN East (7)	Missisppi River Brained (10)	Mississippi River St. Cloud (12)	Rainy R Hdwtrs/Vermilion R (6)
Chippewa County	Carlton County	Le Sueur County	Aitkin County	Benton County	Cook County
Chippewa SWCD	Carlton SWCD	Le Sueur SWCD	Aitkin SWCD	Benton SWCD	Cook SWCD
Douglas County	Kanabec SWCD	Lower MN River Watershed District	City of Baxter	Clearwater River Watershed Dist.	Lake County
Douglas SWCD	Pine County	Rice County	City of Brainerd	Meeker County	Lake SWCD
Grant County	Pine SWCD	Rice SWCD	Crow Wing County	Meeker SWCD	North St. Louis SCWD
Grant SWCD		Scott County WMO	Crow Wing SWCD	Mille Lacs SWCD	St. Louis County
Kandiyohi County	South Fork of the Crow River (13)	Scott SWCD	Morrison County	Sherburne County	
Kandiyohi SWCD	Buffalo Creek Watershed District		Morrison SWCD	Sherburne SWCD	
Otter Tail County	Carver SWCD	Sand Hill River (8)	Todd County	Stearns County	Upper Minnsota River (7)
Pope County	City of Winsted	East Polk SWCD	Todd SWCD	Stearns SWCD	Big Stone County
Pope SWCD	Kandiyohi County	Mahnomen County		Wright County	Big Stone SWCD
Stevens County	Kandiyohi SWCD	Mahnomen SWCD	Rainy-Rapid (2)	Wright SWCD	Swift County
Stevens SWCD	McLeod County	Norman County	Lake of the Woods County	ű	Swift SWCD
Swift County	McLeod SWCD	Norman SWCD	Lake of the Woods SWCD	Roseau River (3)	Traverse County
Swift SWCD	Meeker County	Polk County		Roseau County	Traverse SWCD
West Otter Tail SWCD	Meeker SWCD	Sand Hill River Watershed District		Roseau River Watershed District	Upper MN River Watershed Dist
	Renville County	West Polk SWCD		Roseau SWCD	• •
	Renville SWCD				
	Wright County				
	Wright SWCD				
(2)			020		
Clearwater (9)	Des Moines (13)	Lac qui Parle- Yellow Bank (8)	Le Sueur (8)	Long Prairie (7)	Winona-La Crescent (10)
Clearwater County	Cottonwood County	Area II Minnesota River Valley Proje		Douglas County	City of Winona
Clearwater SWCD	Cottonwood SWCD	Lac qui Parle SWCD	Blue Earth County SWCD	Douglas SWCD	Houston County
East Polk SWCD	Heron Lake Watershed District	Lac qui Parle County	Faribault County	Morrison County	Olmsted County
Pennington County	Jackson County	Lac qui Parle – Yellow Bank WD	Faribault County SWCD	Morrison SWCD	Olmsted SWCD
Pennington SWCD	Jackson SWCD	Lincoln SWCD	Freeborn County	Todd County	Root River SWCD
Polk County	Lyon County	Lincoln County	Freeborn SWCD	Todd SWCD	Stockton-Rollingstone-MN City WD
Red Lake County	Lyon SWCD	Yellow Medicine SWCD	Waseca County	West Ottertail SWCD	_ Wabasha County
Red Lake SWCD	Martin County	Yellow Medicine County	Waseca SWCD		Wabasha SWCD
Red Lake Watershed District	Martin SWCD			Otter Tail (6)	Winona County
MILLIO I T	Murray County			Becker SWCD	Winona SWCD
Middle-Snake Tamarac (5)	Murray SWCD			Becker County	
Marshall County	Nobles County			Cormorant Lakes Watershed Distric	τ
Marshall SWCD	Nobles SWCD			East Otter Tail SWCD	
Middle-Snake-Tamarac Rivers WD				Otter Tail County	
Polk County				Pelican River Watershed District	
West Polk SWCD				West Otter Tail SWCD	

		:	2019		
Lower Minnesota River West (7)	Snake (8)	St. Louis (6)			
High Island Creek WD	Aitkin County	Carlton County			
McLeod County	Aitkin SWCD	Carlton SWCD			
McLeod SWCD	Kanabec County	Fond du Lac Band of Lk Superior Ch	nippewa		
Nicollet County	Kanabec SWCD	North St. Louis SWCD			
Nicollet SWCD	Mille Lacs County	St. Louis County			
Sibley County	Mille Lacs SWCD	South St. Louis SWCD			
Sibley SWCD	Pine County				
	Pine SWCD				
			2018		
Hawk Creek Middle MN (6)	Nemadji (4)	Rum (17)	Mississippi Headwaters (10)	Wild Rice and Marsh (14)	Greater Zumbro (12)
Chippewa County	Carlton County	Aitkin County	Beltrami County	Becker County	Dodge County
Chippewa SWCD	Carlton SWCD	Aitkin SWCD	Beltrami SWCD	Becker SWCD	Dodge SWCD
Kandiyohi County	Pine County	Anoka SWCD	Cass County	Clay County	City of Rochester
Kandiyohi SWCD	Pine SWCD	Benton County	Cass SWCD	Clay SWCD	Goodhue County
Renville County	· me evves	Benton SWCD	Clearwater County	Clearwater County	Goodhue SWCD
Renville SWCD		Crow Wing County	Clearwater SWCD	Clearwater SWCD	Olmsted County
TOTAL OF THE STATE	Redeye (5)	Crow Wing SWCD	Hubbard County	Mahnomen County	Olmsted SWCD
	Becker SWCD	Isanti County	Hubbard SWCD	Mahnomen SWCD	Rice County
Shell Rock - Winnebago (4)	East Otter Tail SWCD	Isanti SWCD	Itasca County	Norman County	Rice SWCD
Freeborn County	Otter Tail County	Kanabec County	Itasca SWCD	Norman SWCD	Wabasha County
Freeborn SWCD	Wadena County	Kanabec County Kanabec SWCD	itasca SWCD	Polk County	Wabasha Gourty Wabasha SWCD
City of Albert Lea	Wadena SWCD	Mille Lacs County	Two Rivers Plus (4)	East Polk SWCD	Bear Valley WD
Shell Rock River WD	Wadena SWCD	Mille Lacs SWCD	Kittson County	West Polk SWCD	bear valley VVD
SHEII ROCK RIVEL WD		Morrison County	Kittson SWCD	Wild Rice WD	
		Morrison SWCD	Roseau County	Wild Rice WD	
		Sherburne County	Roseau SWCD		
		Sherburne SWCD	Roseau SWCD		
Buffalo-Red River (9)	Lower Ct Croix Diver (1E)	Mustinka/Bois de Sioux Rivers (13)	2017 Pine River (4)	Sauk River (11)	Watanwan Divor (12)
Becker County	Lower St. Croix River (15) Anoka SWCD	Big Stone County	Cass County	Douglas County	Watonwan River (12) Blue Earth County
Becker SWCD	Brown's Creek WD	Big Stone SWCD	Cass SWCD	Douglas County Douglas SWCD	Blue Earth SWCD
Buffalo-Red River WD		Bois de Sioux WD	Crow Wing County	Meeker County	
	Carnelian Marine St. Croix WD			Meeker SWCD	Brown County Brown SWCD
Clay County	Chisago County	Grant County	Crow Wing SWCD		
Clay SWCD	Chisago SWCD	Grant SCWD		Pope County	Cottonwood County
Otter Tail County	Comfort Lake Forest Lake WD	Otter Tail County		Pope SWCD	Cottonwood SWCD
West Otter Tail SWCD	Isanti County	West Otter Tail SWCD		Sauk River Watershed District	Jackson County
Wilkin County	Isanti SWCD	Stevens County		Stearns County	Jackson SWCD
Wilkin SWCD	Middle St. Croix WMO	Stevens SWCD		Stearns SWCD	Martin County
	Pine County	Traverse County		Todd County	Martin SWCD
	Pine SWCD	Traverse SWCD		Todd SWCD	Watonwan County
	South Washington WD	Wilkin County			Watonwan SWCD
	Sunrise River WMO	Wilkin SWCD			
	Washington County				
	Washington SWCD				

		:	2016		
Cannon River (14)	Cedar River (11)	Pomme de Terre River (13)	Leech Lake River (4)	Missouri River Basin (14)	Thief River (7)
Belle Creek WD	Cedar River WD	Big Stone County	Cass County	Jackson County	Beltrami County
Dakota County	City of Austin	Big Stone SWCD	Cass SWCD	Jackson SWCD	Beltrami SWCD
Dakota SWCD	Dodge County	Douglas County	Hubbard County	Kanaranzi - Little Rock WD	Marshall County
Goodhue County	Dodge SWCD	Douglas SWCD	Hubbard SWCD	Lincoln County	Marshall SWCD
Goodhue SWCD	Freeborn County	Grant County		Lincoln SWCD	Pennington County
Le Sueur County	Freeborn SWCD	Grant SWCD		Murray County	Pennington SWCD
Le Sueur SWCD	Mower County	Otter Tail County	Lake of the Woods (5)	Murray SWCD	Red Lake WD
North Cannon WMO	Mower SWCD	West Otter Tail SWCD	Lake of the Woods County	Nobles County	
Rice County	Steele County	Stevens County	Lake of the Woods SWCD	Nobles SWCD	
Rice SWCD	Steele SWCD	Stevens SWCD	Roseau County	Okabena-Ocheda WD	
Steele County	Turtle Creek WD	Swift County	Roseau SWCD	Pipestone County	
Steele SWCD		Swift SWCD	Warroad River WD	Pipestone SWCD	
Waseca County		Pomme de Terre River Association		Rock County	
Waseca SWCD				Rock SWCD	
Lake Superior North (4)	North Fork Crow River (14)	Red Lake River (7)	Pilots Root River (13)	Yellow Medicine River (10)	
Cook County	McLeod County	Pennington County	Crooked Creek WD	Area II MN River Basin Projects, Inc	
Cook SWCD	McLeod SWCD	Pennington SWCD	Dodge County	Lac Qui Parle County	
Lake County	Kandiyohi County	Polk County	Dodge SWCD	Lac Qui Parle SWCD	
Lake SWCD			Doage Swob	Lac Qui Pai le SWCD	
	Kandiyohi SWCD	West Polk SWCD	Filmore County	Lincoln County	
	Kandiyohi SWCD Meeker County	Red Lake County	3		
		Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County	Lincoln County Lincoln SWCD Lyon County	
	Meeker County Meeker SWCD Pope County	Red Lake County	Filmore County Filmore SWCD Houston County Root River SWCD	Lincoln County Lincoln SWCD Lyon County Lyon SWCD	
	Meeker County Meeker SWCD Pope County Pope SWCD	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County Yellow Medicine SWCD	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County Stearns SWCD	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD Olmsted County	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County Stearns SWCD Wright County	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD Olmsted County Olmsted SWCD	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County Yellow Medicine SWCD	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County Stearns SWCD Wright County Wright SWCD	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD Olmsted County Olmsted SWCD Winona County	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County Yellow Medicine SWCD	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County Stearns SWCD Wright County Wright SWCD Middle Fork Crow River WD	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD Olmsted County Olmsted SWCD	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County Yellow Medicine SWCD	
	Meeker County Meeker SWCD Pope County Pope SWCD Stearns County Stearns SWCD Wright County Wright SWCD	Red Lake County Red Lake SWCD	Filmore County Filmore SWCD Houston County Root River SWCD Mower County Mower SWCD Olmsted County Olmsted SWCD Winona County	Lincoln County Lincoln SWCD Lyon County Lyon SWCD Yellow Medicine County Yellow Medicine SWCD	







The value of BWSR storytelling

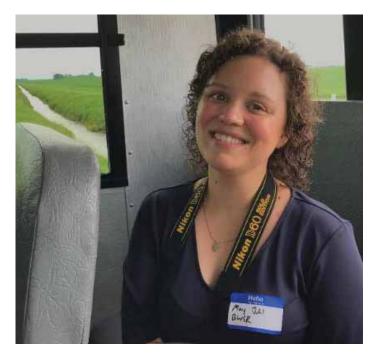
Presented by:

Mary Juhl, BWSR Communications Coordinator Ann Wessel, BWSR Information Officer



bwsr.state.mn.us

Meet the Presenters



Mary Juhl Communications Coordinator



Ann Wessel Information Officer

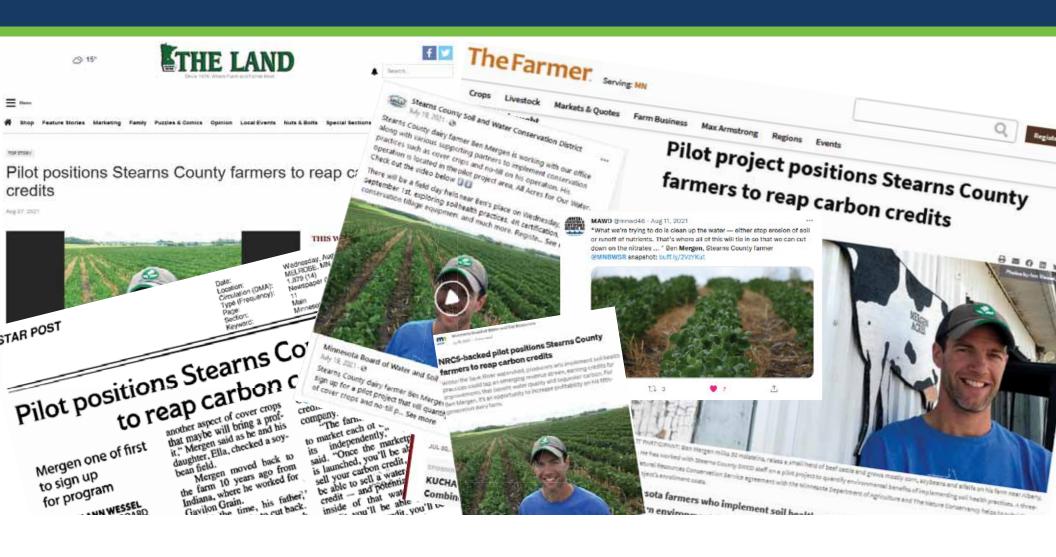
www.bwsr.state.mn.us

BWSR staff's involvement in storytelling



3/22/2022 www.bwsr.state.mn.us

Where do those Snapshots and articles land?



Part 1: Snapshots

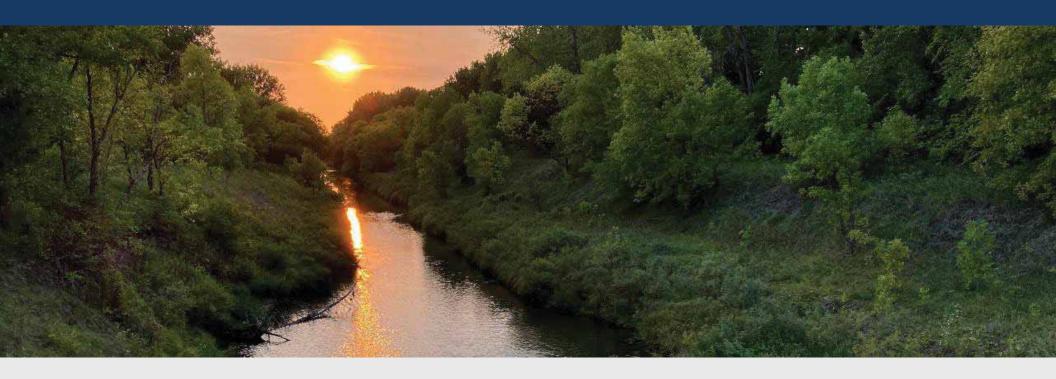
Part 2: Conservation Stories

Part 3: The role of social media

Part 4: Questions



Part 1: BWSR Snapshots overview



Snapshots at-a-glance

- Staff-written monthly newsletter
- 4 full-length articles per edition
- Distributed via GovDelivery to more than 2,000 subscribers
- Stories featured on BWSR website and social channels









BWSR staff's role in storytelling

Every year, approximately 33 BWSR staff (not including communications staff) offer expertise, ideas, data, funding information, and LGU source connections (plus drafting and editing) to make BWSR Snapshots successful.









Who is BWSR's audience for Snapshots?

2,024 monthly subscribers including:

- BWSR Board members
- BWSR staff
- SWCD staff
- WD staff
- WMO staff
- Local water planners
- Partners (MASWCD, MAWD, MACDE, NRCS)
- Snapshots listserv (anyone can subscribe to Snapshots by singing up for this)



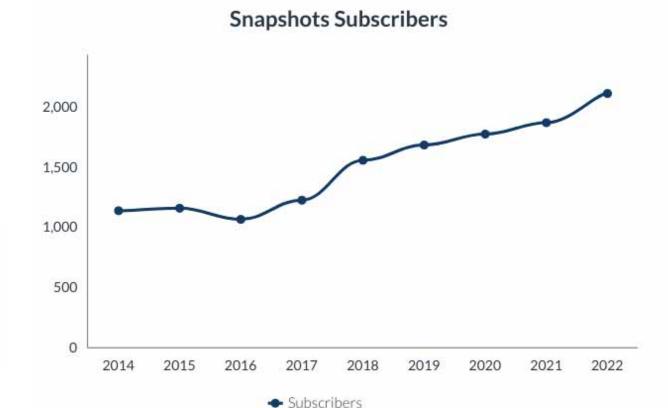
3/22/2022

Snapshots subscribers 2014-2022

Snapshots subscriptions have nearly doubled over the past eight years:

January 2014: 1,145

January 2022: 2,121



3/22/2022

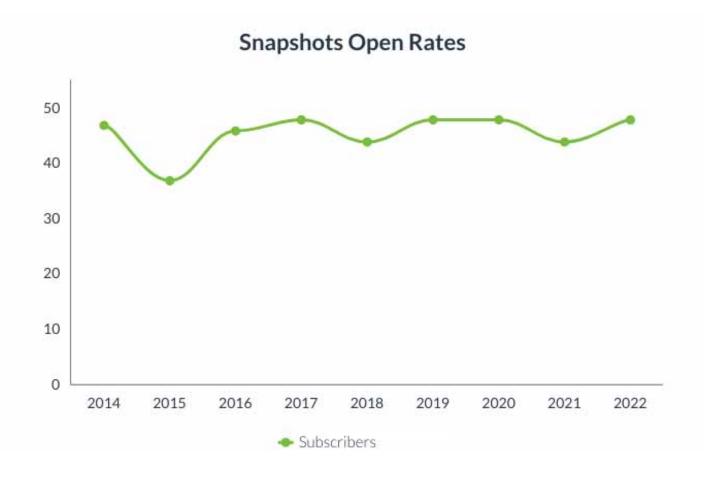
What is an open rate?

An email open rate is the percentage of subscribers who open a specific email out of your total number of subscribers who received the mail. This metric is often used to gauge the success of email campaigns, such as monthly newsletters like BWSR Snapshots.



Open Rates

3/22/



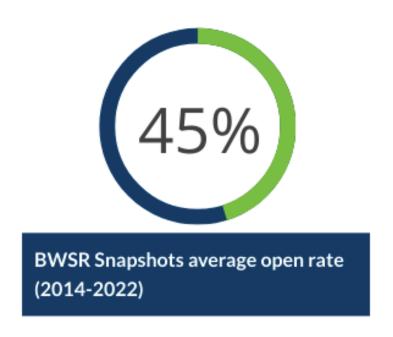
12

Open Rates

21.5%: Average across all industries

27.3%: Average for Agriculture, Forestry, Fishing and Hunting organizations

19.4%: Average for Government organizations



Source: Campaign Monitor, a major email marketing campaign corporation that tracks average open rates across a range of industries. Data taken from bulletins sent in 2021.

3/22/2022 www.bwsr.state.mn.us 13

Partner Feedback on Snapshots

John:

Excellent article! Please convey my congratulations to your staff. Very professional, comprehensive, and yet personable.

Thanks for sharing!

With your permission, at the end of the week I would like to forward it to LSOHC members.

Regards,

Mark

Mark Wm. Johnson Executive Director Lessard-Sams Outdoor Heritage Council 651-296-6397

Partner Feedback on Snapshots

I can't thank you enough for writing this article about the NW MN Water Festival. What a wonderful outreach article to help folks understand our mission to teach students about water and natural resources (even in the midst of a pandemic)! I especially loved how you were able to intertwine the teacher's thoughts about the event and the excitement and fun the students felt as they took part in the activities. That totally makes the article. I absolutely loved it!!

Thanks so much again, Stay safe and stay well,

Donna Christianson Outreach Coordinator Pennington SWCD

3/22/2022

How External Partners Use Snapshots

MASWCD Monthly Newsletter

Shared services help SWCDs operate efficiently

Soil and water conservation districts operate with lean staffs (and budgets) to implement conservation practices all over the state. In fact, the average district has fewer than six full-time employees. In this month's edition of the Board of Water and Soil Resources' Snapshots, learn how several SWCDs share staff and resources to operate efficiently.



To read the full story, click here.

How External Partners Use Snapshots

Clean Water Council Newsletter

Updates on Projects Supported by the Clean Water Fund

BWSR Snapshots. The Board of Water and Soil Resources (BWSR) has issued its monthly Snapshot project updates.

- SWCDs Boosting Buffer Compliance: Ninety-nine percent of public waters in Minnesota and 98 percent of all waters are now compliant with the 2015 buffer law. BWSR profiles seven soil and water conservation districts and how they have achieved greater compliance in the counties of Blue Earth, Polk, Faribault, Pennington, Stearns, and Swift. The Clean Water Fund supports assistance, oversight, and grants for local governments in implementing and complying with the buffer law.
- Bostic Bay (Lake of the Woods County): "Lakes of the Woods Soil & Water
 Conservation District's (SWCD) \$350,000 channel stabilization on 2.75 miles of Judicial
 Ditch 28, which finished late this summer, was designed to curb bank erosion, improve
 water quality and protect fish passage to shallow, grassy spawning sites."
- Outstanding SWCD Employee of the Year: BWSR has named Pennington SWCD's Peter Nelson the 2020 Outstanding Soil and Water Conservation District Employee. His efforts to coordinate the Thief River Comprehensive Watershed Management Plan are highlighted.
- Watershed District Employee of the Year: BWSR has named Maggie Karschnia, water resources project manager of the Prior Lake-Spring Lake Watershed District, as 2020 Outstanding Watershed District Employee, focusing on her work on an integrated carp management program.

3/22/2022

More Details

How External Partners Use Snapshots

Clean Water Fund Website

3,300+ Funded Projects







How Snapshots give BWSR a legislative edge

BWSR communications staff tracks Snapshots by legislative district. This enables BWSR legislative staff to provide lawmakers with examples of BWSR projects in their home districts, localizing the importance of our work.



Clean Water Funds assist in unique Douglas County dairy transition



Farmers' conservation in the Glacial Hills benefits Lake Emily



Camp Ripley Buffers protect training mission, preserve habitat



Southeastern Minnesota septic system fixes bring groundwater protection



Mississippi River, trout streams benefit from feedlot upgrades
Project Video-



Rochester stream reconstruction provides multiple benefits



Becker County farm finds new ways to expand cattle operation



Crow Wing River protections benefit Twin Cities drinking water



Infestation sparks hope for diverse, resilient North Shore forest Project Video

3/22/2022

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19



Conservation stories



2021 highlights: Clean Water Fund articles, multi-county

A@WEEK

Farmland is part of Minnesota's plan to improve impaired waters

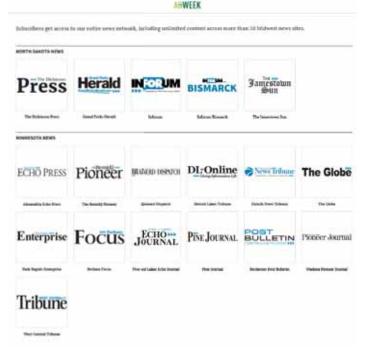
Grants from the Minnesota Board of Water and Soil Resources have been distributed in areas directly affecting impaired waters. 53 lakes, and segments of rivers and streams are proposed for delisting this year.



Outlet Creek flows from Lake Minnewaska to Lake Emily in Pope County. Contributed / Pope Soil and Water Conservation District

By Agweek Staff Report SHARE ()

Clean Water Funds from the Minnesota Board of Water and Soil Resources supported conservation work that contributed to some lakes, rivers and streams earning a spot on the list of waters slated to be removed from the state's impaired waters list in 2022.



Picked up by AgWeek (part of Forum Communications), which focused on Pope and Grant counties

The Outdoor News plans to run the article

Featured by the Clean Water Council, other agencies

3/22/2022 www.bwsr.state.mn.us 21

Clean Water Fund: Northeastern region

NEWS.

Work to block phosphorus from Lake Irving nearing completion

A project by the Beltrami County Soil and Water Conservation District, the city of Bemidji and other partners to prevent phosphorus from entering Lake Irving is on track to be finished in early November.

Written By: Matthew J. Liedke | 7:00 am, Oct. 50, 2021



Zach Gulfmecht, center, Baltrami County SIXCO clean water appointed, visits the construction site of a stormwater treatment project on Sept. 8 in Semidij with Shaum Tracy, right, NR Orean lead actential, and Ched Severte. SIXSR board conservationals An ione enhanced semidillar is part of the Clean Wilder Fund-basted absenvater project designed to improve the water quality of notificationguistic date inving. The work will keep an estimated 200 pounds of phosphorus out of Lake Inving each year. (Courteay, Prinn Wessel)

BEMIDJI -- A project meant to protect Lake Irving from phosphorus is expected to be finished early next month.

The Beltrami County Soil and Water Conservation District announced this week that a \$490,000 stormwater project is nearing completion. The project includes installing an iron-enhanced sand filter and creating a ditch that collects stormwater runoff from an 886-acre drainage area, which includes the Bemidli Industrial Park.

To cover the project, the SWCD partnered with the city of Bemidji, the Mississippi Headwaters Board of Water and Soil Resources and Enbridge. Financially, Enbridge contributed \$50,000, and the project also utilized a \$156,000 Clean Water Fund grant.



BELTRAMI SWCD/LAKE IRVING:

Bemidji Pioneer: 10,715 circ.

Bemidji Pioneer: 47,840 circ.

The Outdoor News, 47,840 circ.

KROX radio (online)

An iron-enhanced sand filter is part of the Beltrami County SWCD's Clean Water Fund-backed stormwater project designed to improve the water quality of nutrient-impaired Lake Irving, which flows into Lake Bemidii and then the Mississippi River. The stormwater project will keep an estimated 233 pounds of phosphorus out of Lake Irving each year. (Left to right): Zach Gutknecht, Beltrami County SWCD clean water specialist, checked on progress Sept. 9 in Bemidji with Tim Terrill, executive director of the Mississippi Headwaters Board, Shawn Tracy, HR Green fead scientist, and Chad Severts.

3/22/2022 www.bwsr.state.mn.us

22

Clean Water Fund: Northwestern region



Location: Circulation (DMA):

Saturday, February 06, 2021 THIEF RIVER FALLS, MN 22,700 (116)

Minnesota Board of Water & Soil Resources Crankston Daily Times

Plans are proceeding for the Pennington Soil and Water Thief River Falls. (Submitted) Conservation District's stream bank stabilization project in

Submitted by the Minnesota Board of Water and Soil Resources

Pennington Soil and Water Conservation District's planned stream bank

"The goal is to reduce sediment entering the Red Lake River, which is contributing to an impairment," Peter Nelson said during a November 2019 stop at the Greenwood Street bridge. - out of the Red Lake River annually.

The sites are among 10 priorities for reducing sediment and phosphorus that Houston Engineering identified in a water-quality study

A Pennington Soil & Water Times Report Conservation District Project within three county ditch sys tems that outlet into the Red Lake River cut landowners out-of-pocket immediate

Ditch fixes stabilize banks, stanch erosion "Clean Water Funds will cover the balance. be used to offset the cost to the ditch authority for fixing these erosion nroblems 2 cost

times cutting hundreds of feet "By having the side-inlets, it prevents erosion," said Pennt prevents erosion, said rennington County Engineer Mike Flaagan, who administers the county highway de-

Main Minnesota Board of Water & Soil Resources

PENNINGTON SWCD:

Northern Watch: 22,700 circ. Crookston Daily Times: 1,025 circ.

3/22/2022

www.bwsr.state.mn.us

23

Clean Water Fund: Southeastern region



DODGE SWCD: BWSR-NRCS RCPP

The Farmer: 31,060 circ. The Outdoor News

Dodge County Independent

USDA

3/22/2022 www.bwsr.state.mn.us 24

Clean Water Fund: Southwestern region





"We've been trying cover grops. We've been trying all those other things. For the city, to have a guarantee of their water quality, owning it was the next step," said

The ultimate goal is to implement enough changes - whatever those changes might be - to imeet drinking water) standards so the city doesn't have to have treatment in place."-Acron Meyer, Minnesota Rural Water Association "With our rich soils, we use satrates to "With surrich softs, we are natures to grow corn and compete in the world native. We get loaching in some of those smaller wite." The only way is private that in falls in most allow nitrogen to be salided and thus pretty much takes the limiting appear out of it. That's not an option for the formers," and State, who is also the STERWD execution secretary. The U.S. Environmental Protection Agrics/Subandard for utitates in drinking water in 10 parts per million (gren). For treatment to stop, altrate levels mast recessis under 7 post for a certain length of firm. Consuming too much nitrogen can affect how the blood carries coppen. The Minnesota Department of Hualit (MIRI) links offrates to blue help syndrome.

in 1998 in ruling sufragen levels. When water treatment equipment broke down for three months about five years ago, the

city supplied program or breastfeeding customers with bottled water.

"The best goal would be to get our nitrogen levels down to where we don't have to do treatment. A realistic goal is here to do testiment. A rotatistic goal to just to lower or maintain our costs for testing the water, and hospitally hower it, and Autima Utilities for permissioned Africa Herming, who has since taken a different job. Herming also serves on Kaisaranti. Liefle Stock Watershed District's found of

The city aims to keep nitrogen levels under 3 parts per million.

Three wells supply Adrians 648 residential and business customers. Previously, time other wells were closed and the enating wife were dup about one block-north to avoid a plante of volatile reganic compounds (VOCs) and high nitrare levels.

Once a week, the city tests pro- and post treatment utitate levels. Once a mornis, it aends samples to hitmassets. Valley Testr Laboratories.

The water treatment plant can reduce naturale levels to 5 ppm or less. But more treatment of a ppm or selection of treatment requires more sell water, which couls attern. To keep levels wither limits, the plant nation water from the three wells.

Well No. 6 is element to the creek. It has tested highest for intrates, with levels at times exceeding 30 ppm. In 3017, the city started pumping and meating water from well No. a to lower situate levels in the were to a state that the state that the other wells by preventing the water from traveling through the aquifer to the north. Nitrata levels fluctuate throughout the year, depending partly upon rainful lotationed throng, and what cuops were grown.

Since 2017, individual wells' pre-toratment mitrate levels have been as low as 4.5 ppm.

"Since we started doing some of these different things, I have noticed a drep in our ratrates," Herning used "I couldn't tell you what's doing at because we're doing about hise different things."

Those tuchade host management practices

MDH greats offset the first-claf risk to farmers who planted other crups within Advan's LNG-ace Detailing Water Supply Management Area (DWSMA). The Emergent Little Rock Watershall District uikind \$10 to the greath \$40 on acre comment.

Their producers planted cover crops on 236, acres within the wellhead protection area in fall 2018, One of them, the retries who farmed the Mergerchaler land, certailed 96 acres for a second per.

"These are our utilizate goods. This is what wold the to are within our well-head, among a sid Lawn Debtors, a Openion."
Constructioned regional water resources specialist who works with highly watership well-head protection arous is not mathematical Microcontractionaries in air mathematical Microcontractionaries.

Effects producers own agricultural land within the DWSMA. One of those is in the area classified as highly valuerable.

The MDH implementation grant awarded to 2017 for the 2018 season was followed. by another grant for 2019.

Deflor also has worked with producers to more efficiently and effectively deliver mirrogen fertilizer through manage

"What's going to be good for the wellhoad protection area is also going to be good for the application," Deflect said.

"It may not for the problem, but it's definitely going to help, and it's going to guarantee that it's protected" — John Shea. Nobles SWCD manager

The SWCD will continue to weak with farmers on cover crops, split nitrogen application and other practices that

This isn't the only studios aquifer in Nobles County, so this is the brist step.

"I would like to see all of the apland farm I would like to ove all of the adamal farms saing bost management practices and still utilizing their property for their each flow of their operation. If we can get it to work and pain a permanent goes their owns better. But I don't think over-prody couch to give up farming in this welenshed. I just work flows to be some this what they put our the field ought after their neighbook. She and



Photo Credity: Ed Leng, BWSR

MILLHEAD HISTELTION AVEX

Mover said past monitoring showed field the lines contributed to higher nitrate levels. Howing the land kept in personnal

Clean Water Fund: Central region



3/22/2022 www.bwsr.state.mn.us 26



Social Media: Broadening our reach (for free)



BWSR's primary social media tools

Social Media



- **3,300** followers
- New posts daily



- 1,520 followersNew posts 5x/week



- **2,158** followers
- 3-5 posts weekly



- 126 subscribers
- Videos accompany **CWF/Conservation stories**
- Most videos under 3 minutes

3/22/2022

Medium blog

Minnesota Board of Water and Soil Resources

Dec 23, 2021

Rotational grazing revives prairie

In a one-time, two-month pilot in Murray County, foraging sheep provided required CRP maintenance, spurring regrowth with hoof action, nibbling



Conservation 5 min read

ば …

Dec 23, 2021

Delisting sampler: Clean Water Funds linked to lake, stream improvements

From across Minnesota, examples of BWSR-backed water quality work that contributed to proposed removals from the state's impaired waters list in...



Water 8 min read

□ ...

Soil health believers: Clay County farm family converts to cover crops, no-till

Despite setbacks, the Aakres have expanded practices they started with assistance from the USDA's Natural Resources Conservation Service







Delisting sampler: Clean Water Funds linked to lake, stream improvements

From across Minnesots, examples of BWER-backed water quality work that contributed to proposed removals from the state's impatred waters list in 2022



Dook that the up to the treet, but the former or the first the process of the creek is among the



Clean Water Funds from the Minnesota Board of Water and Stil Resources supported conservation work that contributed to some lakes, rivers and streams earning a spot on the list of waters slated to be removed from the state's impaired waters list in 2022.

The Minnesona Pollution Control Agency is accepting commetts through Jan. 7 www.bwsr.state.mn.us

STATS:

76 published stories 84 subscribers

3 MOST-READ SINCE LAUNCH:

1.1K getting started w/native plantings

421 Rice Creek WD carp experiment 387: Lawns to Legumes-related

3 MOST-VIEWED:

2.2K Getting started w/native plants 1K Rice Creek WD 885 Shoring up support for Blue Lake: Isanti SWCD

29

MNBWSR 126 subscribers

HOME

VIDEOS

PLAYLISTS

CHANNELS

ABOUT

Q

Uploads





Serpent Lake Targeted Watershed

277 views • 2 weeks ago CC



Pelican River Watershed District: Rice Lake Wetland...

85 views • 1 month ago CC



Beltrami SWCD

101 views • 4 months ago

CC



Improving Soil Health in Clay

County

126 views • 5 months ago

CC



Coleraine's stormwater solution

87 views + 6 months ago

CC



Targeting Pickerel Lake

93 views • 6 months ago

CC



Sauk River Watershed: ESMC Pilot Project

92 views • 8 months ago CC



Dodge County Dairy's Feedlot Fix Benefits Mississippi River

46 views • 9 months ago

CC



Pipestone SWCD: Drinking water protection

65 views • 10 months ago CC



Pope County NRCS **Rotational Grazing**

288 views • 1 year ago

CC



Pennington SWCD: Red Lake River streambank...

97 views • 1 year ago CC



Pennington SWCD

79 views • 1 year ago

CC

3/22/2022

www.bwsr.state.mn.us

30

Top 3 Tweets of 2021



MN BWSR @MNBWSR

It's national #PollinatorWeek Check out our #Lawns2Legumes Planting for Pollinators Habitat Guide for tips on creating and maintaining pollinator plantings in your yard: https://bit.ly/2Sh03wHpic.twitter.com/cmAoJxdGjc



MN BWSR @MNBWSR

#Lawns2Legumes is now accepting applications for individual support grants. Gardeners can apply for up to \$300 in reimbursement funds to create residential pollinator habitat. Learn more: https://bit.ly/3jbTKVH

*Photo contributed by a Lawns2Legumes gardener pic.twitter.com/DdUchgph7W

MN BWSR @MNBWSR

3/22/2022

Application deadline; 5/28/21 @MNBWSR @MnPCA & @conservcorps among #Minnesota agencies, orgs giving under-represented students a close-up view of #careers in #NaturalResources, #conservation via Increasing Diversity in Environmental Careers. @mndnr:

https://www.dnr.state.mn.us/news/2021/02/18/career-pathway-program-seeking-applicants ...

Impressions	58,803
Total engagements	280
Media engagements	98
Detail expands	58
Link clicks	55
Impressions	9,438
Total engagements	307
Link clicks	103
Detail expands	71
Retweets	42
Likes	40
Impressions	3,119
Total engagements	53
Detail expands	13
Likes	11
Link clicks	11

2021 Top 3 tweets

The daily impressions generally average 450+

It's easy for lawmakers and other agencies to share via Twitter.

www.bwsr.state.mn.us 31

Somewhat more typical Twitter activity

Jan 2022 · 31 days

TWEET HIGHLIGHTS

Top Tweet earned 2,724 impressions

L-R: Slayton-based @NRCS_MN #Soil #Conservation Tech Allisa Wendland ID'd #plants in a rotationally grazed #MurrayCounty #Minnesota #prairie w/@pheasants4ever Farm Bill #Biologist Megan Howell, part of a one-time experiment on CRP land. #MnBWSR Snapshot: bwsr.state.mn.us/sites/default/... pic.twitter.com/xNqYNFhD0d



Dec 2021 - 31 days

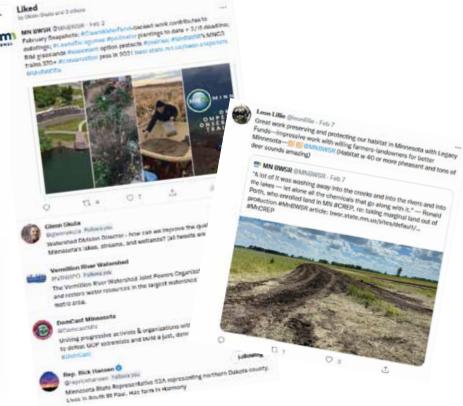
TWEET HIGHLIGHTS

Top Tweet earned 1,228 impressions

This year's #MnBWSR Outstanding Soil and Water Conservation District Employee is Doug Bos, Assistant Director for Rock SWCD. Thanks for all your hard work and commitment to conservation, Doug! More info: bwsr.state.mn.us/node/5056
@MnSWCDs #conservation
#WaterQuality #SoilHealth
pic.twitter.com/t4Ry6W5ihs



4-3 ea3 w20



3/22/2022 www.bwsr.state.mn.us

32

Top 3 Tweets, Jan. 1 – March 21, 2022



MN BWSR @MNBWSR

L-R: Slayton-based @NRCS_MN #Soil #Conservation Tech Allisa Wendland ID'd #plants in a rotationally grazed #MurrayCounty #Minnesota #prairie w/@pheasants4ever Farm Bill #Biologist Megan Howell, part of a one-time experiment on CRP land. #MnBWSR Snapshot:

MN BWSR @MNBWSR

Habitat Friendly Solar Summit. 9AM-4PM, 3/9/22. Free. Virtual. Presentations feature @FreshEnergy @GreatPlainsInst @UMNIonE @mndnr @StearnsCountyMN and @MNBWSR. Details: http://www.bwsr.state.mn.us/minnesota-habitat-friendly-solar-program ...

#solar #habitat #pollinators https://twitter.com/FreshEnergy



MN BWSR @MNBWSR

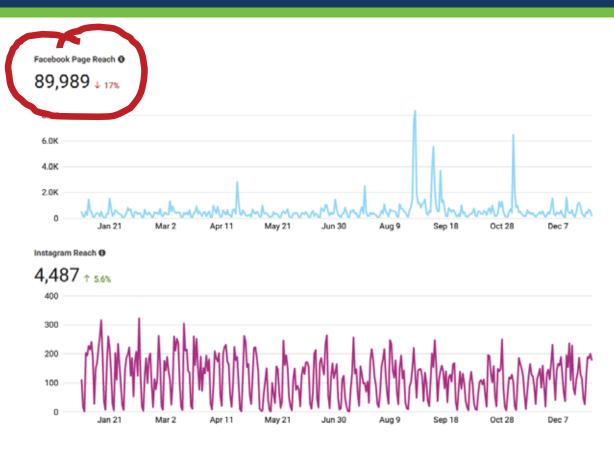
your 'CANB' Hambwith Hambwith

Impressions	2,849
Total engagements	23
Media engagements	6
Likes	6
Detail expands	4
Impressions	1,816
Total engagements	29
Detail expands	11
Likes	9
Retweets	5
Impressions	1,640
Total engagements	65
Link clicks	19
Detail expands	15
Likes	11
Retweets	8
Media engagements	5

Not pictured: An image featuring 4 BWSR staffers who agreed to appear in an International Day of Women & Girls in Science post reached 1,409

3/22/2022 www.bwsr.state.mn.us 33

Facebook: Total 2021 reach



REACH: The number of people who see a post at least once. Reach is different from impressions, which may include multiple views of the post by the same people. This metric is estimated.

ONE BIG REASON WHY IT'S DOWN OVER 2020: Lawns to Legumes was announced in 2020.

3/22/2022

www.bwsr.state.mn.us

Facebook: Top 6 posts of 2021

Content 6



Aug 26, 2021

Lawns to Legumes is now a...

Post

Reach

30.4K

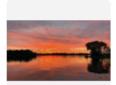


Nov 5, 2021

BWSR's Lawns to Legumes ...

Post

Reach 10.2K



Apr 22, 2021

TWO CHISAGO COUNTY LA...

Sort by: Reach -

Post

Reach 4.7K



Sep 14, 2021

"Ecologically speaking, we s...

Post

Reach 4.5K



Jul 22, 2021

Two rain gardens installed t...

Post

Reach 3.5K



Mar 5, 2021

Jennifer Olson is working wi...

Post

Reach 2.8K

Facebook: Top 6 posts, Jan. 1 – March 21, 2022

Content 0

Sort by: Reach

your yard CAN B E E the CHANGE Thu Feb 10, 6:09am

BEE THE CHANGE Lawns to Le...



Reach 60,742



Wed Feb 16, 7:11am

WHAT: The Second Habitat Fri...



Reach 3,028



Fri Feb 4, 7:09am

Backyard bounty: Planting for ...



Reach 21,049



Fri Feb 25, 7:19am

To date, Sentinel Landscapes h...



Reach 5,616



Wed Jan 5, 6:37am

Three of the current full-time j...



Reach 2,700



Mon Feb 14, 2:39pm

Join us at the agency that adm...



Reach 2,276

Year-to-date: 18 posts reached 1,000 or more viewers

Facebook: Who's viewing



WHO: Gender and age breakdown is not surprising across social media.

WHERE: MSP is also no surprise, partly because of access.

Top 5 Snapshots of 2021 in terms of Facebook reach...



1 Comment 13 Shares

Minnesota Board of Water and Soil Resources

The Minnesota Board of Water and Soil Resources and its partners are

August 16, 2021 - 3

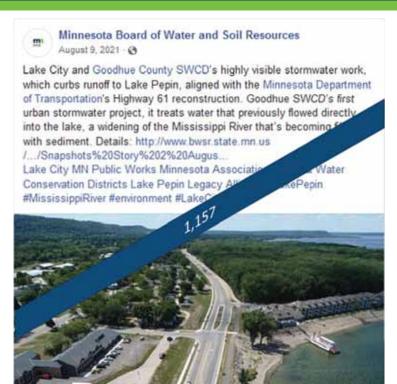




3/22/2022 www.bwsr.state.mn.us 38

...Top 5 Snapshots of 2021 in terms of Facebook reach





2021 SNAPSHOT STATS: As of mid-January...

5 cracked 1,000 15 cracked 750 24 cracked 500

OTHER HIGHLIGHTS:

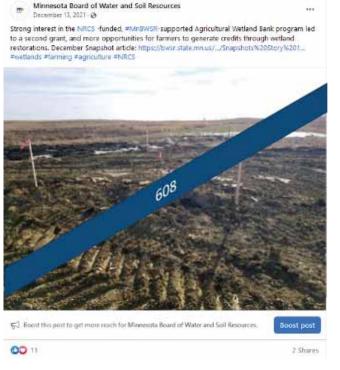
950: Le Sueur/Jefferson German Chain of Lakes 912: Climate Week event

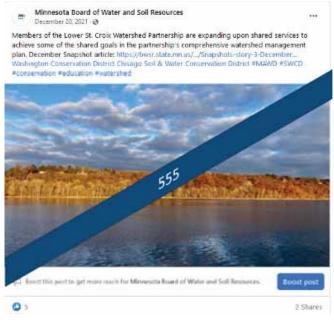
3/22/2022 www.bwsr.state.mn.us 39

1 Comment 5 Shares

Cracking 500: Three more examples







Thank you!



Questions?





Red Lake SWCD's Clearwater focus



PROJECT PARTNERS:

In addition to landowners and the Red Lake River Watershed District, partners have included Red Lake County, which helped with technical and engineering costs; and Enbridge, which has supported the SWCD's work throughout the county with two Ecofootprint grants — \$78,905 in 2015 and \$74,000 in 2016.

Clean Water Funds support agricultural practices that mend field-splitting gullies, save topsoil, improve water quality of sediment-impaired Clearwater River



ED LAKE FALLS — With farmers eager to stop field erosion, a map of prioritized projects, and Clean Water Funds to support the work, the Red Lake County Soil & Water Conservation District (SWCD) is tackling gully fixes designed to improve water quality in the sediment-impaired Lower Clearwater River.

"They're really trying to save their own land," said SWCD Board Chairman David Miller, who also farms in the county. "They don't want to lose their topsoil. They don't want to lose their ability





TECHNICAL ASSISTANCE:

Since the Red River Valley Conservation Service Area-Technical Service Area (TSA) was under-staffed. the SWCD found other wavs to accomplish survey, design and construction work — hiring a retired TSA engineer in 2020, and contracting with Houston Engineering in 2021.

Top: From left: Red Lake County SWCD technician Bob Bohland, SWCD Manager Tanya Waldo, landowner Joe Ste. Marie and SWCD Board Chairman David Miller visit a Clean Water Fund-backed SWCD project on Sept. 9, 2021, in Terrebonne Township. The grade stabilization at the edge of Ste. Marie's field curbs erosion and treats runoff from a 100-acre watershed before it enters a Lower Clearwater River tributary. **Middle:** The Clearwater River draws anglers and paddlers. **Bottom:** A diversion and an intake structure channel and slow runoff. A pipe carries the water, which is filtered before it reaches the river. **Photo Credits:** Ann Wessel, BWSR



Joe Ste. Marie talked with Red Lake County SWCD staff about the improvements he's seen since a grade stabilization structure was installed at the edge of his Terrebonne Township field. A 30-inch-wide, 130-foot-long pipe now carries water from the field to this point, where it is filtered before reaching a Clearwater River tributary.

to drain their fields and lose acreage. They see these projects as a way to stop that erosion and improve the landscape."

The Minnesota Board of Water and Soil Resources (BWSR) awarded the SWCD a Clean Water Fund grant in 2015 to complete survey work, rank potential projects, meet with landowners and install the first round of best management practices. Implementation grants followed in 2020 and 2021. The three grants total \$609,060 and support \$761,330 in work estimated to keep 1,257 pounds of phosphorus and 1,710 tons of sediment — the equivalent of 132 dump truck loads out of the Clearwater River each year. The work will keep an estimated 4,326 tons of topsoil in fields.

To date, the SWCD has worked with nine landowners to implement 33 projects tied to those grants. Two more

The water comes down here and it just kept eroding and eroding, and I was getting a big washout. Towards the end it was getting 20 feet deep and 8, 10 feet wide.

Joe Ste. Marie,Terrebonne Township farmer

are in the works; six more are planned.

Joe Ste. Marie, who grows 480 acres of wheat and soybeans, is among those who signed on. In September 2021, he stood at the edge of 60 acres in Terrebonne Township where a gully once sliced into his field and sent topsoil down a cliff to a Clearwater River tributary.

"The water comes down here and it just kept eroding and eroding, and I was getting a big washout. Towards the end it was getting 20 feet deep and 8, 10 feet wide," Ste. Marie said.

The Clean Water Fund-backed grade stabilization completed

in October 2020 curbs erosion and treats runoff from a 100-acre watershed. A diversion and intake channel the runoff, slow it down and allow sediment and the pollutants it carries to settle out. A 130-foot-long, 30-inch-wide pipe carries the water, which is then filtered before it reaches the river.

Ste. Marie contacted SWCD Manager Tanya Waldo after he saw similar projects working in neighbors' fields. Visible results and available funds have prompted more landowners to visit the SWCD's three-person office.

"She's very good at working with landowners, and very

SIGNS OF IMPROVEMENT:

Evidence of water quality improvements are surfacing elsewhere in the Red Lake watershed. Where the Red Lake and Red rivers meet, the rate of exceedance of the total suspended solids' water quality standard dropped from 37.5% for the 2005-14 testing period to 25% for 2012-21. Hanson said contributors may include conservation work accomplished through One Watershed, One Plan; buffer law implementation; and lack of runoff during 2021 drought conditions. "It's still very significantly impaired, but it's also improved several percentage points," Hanson said.

2022 GRANT AWARDS: In 2022 the Red Lake County SWCD received two Clean Water Fund grants from BWSR: \$231,200 to install ag practices in the Hill River subwatershed, a Clearwater River tributary; \$95,000 for multipurpose drainage management centered on County Ditch 57. which drains to the Clearwater.

successful at getting grants, too." Red Lake Watershed **District Water Quality** Coordinator Corey Hanson said of Waldo, who has worked for the SWCD for 25 years. "I'm sure a lot of them know her and trust her, and she's able to really get things done."

The Red Lake Watershed District includes seven soil and water conservation districts, which it can provide with matching funds. In 2021, the watershed district contributed nearly \$22,000 to the Red Lake County SWCD for its sediment reduction work affecting the Clearwater and Red Lake rivers.

Since 2011, the SWCD has received \$1.9 million in Clean Water Funds from BWSR to implement agricultural practices that reduce sediment, plus drainage ditch work and multipurpose drainage management.

"Without the Clean Water Funds, we wouldn't be able to do these projects. These projects have really brought awareness to the SWCD probably brought more awareness to landowners as far as erosion that is occurring on their land," Waldo said, "giving them the desire to fix problems before they become worse."

Miller said Red Lake County farmland is especially

If we're reducing sediment, we're also reducing phosphorus, so we focus on the sediment.

— Corey Hanson, Red Lake Watershed District

susceptible to erosion because the primary crops wheat and soybeans — leave little residue. Topography is another factor. Without grade checks, the steep slopes from the beach ridges to the valleys of the Red River and its tributaries are ripe for gully formation.

The lower reach of the Clearwater River, which joins the Red Lake River in Red Lake Falls, is impaired for total suspended solids. Hanson, whose duties include monitoring, said trend analysis in the Clearwater River Watershed Restoration and Protection Strategy report indicated that water quality conditions have been improving in the Clearwater



"If we're reducing sediment, we're also reducing

phosphorus, so we focus on the sediment," Hanson said.

Water quality projects affecting waters that drain north to Canada, including the Clearwater and Red Lake rivers, help with nutrient load reductions recommended by the International Joint Commission to address the chronic algal blooms in Lake Winnipeg.

The Clearwater River flows 147 miles from its headwaters near Bagley to the Red Lake River in Red Lake Falls, Within

Red Lake County, part of the river was channelized for drainage, and commercial wild rice paddies drew water from the river and then drained it back into the river after harvest. The river also draws paddlers and anglers to the county.

"Red Lake County doesn't actually have any natural lakes, so we rely on the rivers that come through the county — the kayakers, the tubers, people that count on the rivers to expand their weekends and just enjoy nature," said Red Lake County SWCD technician Bob Bohland, who has since left the SWCD. "We're keeping phosphorus, we're keeping nitrate, we're keeping potassium out of the river system. It's creating cleaner water, less algae growth, just better habitat."

Since a Red Lake River dam removal near Crookston restored fish passage, anglers have been catching Red River species such as catfish in addition to walleye, smallmouth bass and Northern pike.

Hanson fishes the river near Red Lake Falls, and said the stretch upstream to Plummer makes for a scenic paddle.

"It's a nice river, and I think the people that live in that area really appreciate it for recreation," Hanson said.



Without the Clean Water Funds, we wouldn't be able to do these projects. These projects have really brought awareness to the SWCD — probably brought more awareness to landowners as far as erosion that is occurring on their land.

— Tanya Waldo, Red Lake County SWCD manager



Protecting Del Clark Lake's water quality



Above: Del Clark Lake and the surrounding Stonehill Regional Park in Yellow Medicine County will benefit from three recently completed projects including two grade stabilization structures and a roadside retention embankment. **Photo Credit:** Yellow Medicine SWCD **Below:** A sign explains the improvements to park visitors. **Photo Credit:** Lac qui Parle Yellow Bank Watershed District

In Yellow Medicine County, Clean Water Funds support three agencies' work on four projects designed to protect the water quality of a popular recreation destination. Partners include the Lac qui Parle Yellow Bank Watershed District, Area II and the Yellow Medicine SWCD



CANBY – A partnership of local governments is working to protect Del Clark Lake in Yellow Medicine County with support from a \$300,000 Clean Water Fund grant from the Minnesota Board of Water and Soil Resources (BWSR).

Del Clark Lake is not yet impaired and is assessed by the Minnesota Pollution Control Agency as fully supporting aquatic recreation. The lake and the surrounding Stonehill Regional Park offer a handicapaccessible dock and fishing pier, plus opportunities for swimming, boating and

camping. About 9,000 people visit the park each year.

The effort involves three completed projects at Del Clark Lake — two grade stabilization structures and a roadside retention embankment — and a pending dam restoration upstream along Canby Creek. The Madison-based Lac qui Parle Yellow Bank Watershed District (LQPYBWD), which received the grant from BWSR in 2019, took the lead on project implementation with support from Area II Minnesota River Basin Projects (Area II) and the Yellow Medicine Soil

& Water Conservation District (SWCD).

Mitch Enderson, coordinator



for the LQPYBWD, said the intent is to maintain the lake's health and water quality.

"Most of the time, we're looking at restoration, not protection – but Del Clark is an outlier," Enderson said. "When you think about how heavily recreated it is, it becomes more critical to maintain that water quality."

Del Clark Lake is one of three reservoirs built in 1985 to help alleviate frequent flooding in the city of Canby that damaged roads and private property. Tapping local, state and federal funds, contractors built a 55-foot-high dam with a 155-acre permanent pool with a maximum depth of 30 feet. The LQPYBWD owns the lake and Stonehill Regional Park.

Construction of the three Del Clark Lake water quality protection projects began last June and wrapped up by the end of July. The two grade stabilization structures share a single berm on the northwest portion of the lake. A roadside retention embankment near the south part of the lake was also built to help meter out water after heavy rains. Area II — a nine-county joint powers board based in Marshall — provided engineering design and technical assistance.

According to Area II
Executive Director Kerry
Netzke, the three projects
combined will capture
an estimated 667 tons of
sediment a year. For 100year storm events (where
6.5 inches of rain falls over
the watershed in a 24-hour
period), the three projects
offer a combined 42.1



Knutson





Netzke

Enderson



Two grade stabilization structures share a berm in the northwest side of Del Clark Lake. The two structures, plus a roadside retention embankment near the south area of the lake, are estimated to capture a combined 667 tons of sediment each year.

Photo Credit: Yellow Medicine SWCD

acre-feet of water storage. For more frequent 10-year storm events (where 3.99 inches of rain falls over the watershed in a 24-hour period), the projects are designed to provide a combined 19.1 acre-feet of water storage.

"We targeted these projects so Del Clark is going to see the benefit," Netzke said. "The primary goal was to keep sediment out (of the lake)."

Initially, project partners considered using the remaining grant funds upstream to implement several best management practices such as cover crops and grassed waterways. Yellow Medicine SWCD contacted landowners and generated a

list of shovel-ready projects.

"We want to make sure that while we're working on the lake, we're having a positive impact upstream," said Tyler Knutson, Yellow Medicine SWCD director.

Ultimately, the partners decided to use remaining funds on a single dam restoration along Canby Creek a few miles southwest of Del Clark Lake in Fortier Township. Construction is planned for this summer.

"It's a better investment for the public dollar," Netzke said.

A 2019 Minnesota Department of Natural Resources dam safety inspection revealed that a corrugated metal pipe within the 28-foot-high dam was deteriorating. Area II, the LQPYBWD and the Yellow Medicine SWCD are working with the landowner to replace it with a concrete pipe, which is anticipated to last 100 years.

The project, estimated to cost \$50,000, will leverage the remaining Clean Water Fund grant dollars with matching funds from the landowner and the LOPYBWD. Area II is applying for permits and expects to solicit bids for the project in partnership with LQPYBWD this month after the DNR dam safety permit amendment is received. Construction is planned for this summer; work on this project must be completed by Aug. 31. All grant-related work must be completed by Dec. 31.

Although partners decided to pursue the dam restoration, Knutson said the list of shovel-ready projects could be funded later through BWSR's One Watershed, One Plan program. The Lac qui Parle – Yellow Bank Comprehensive Watershed Management Plan will be considered for approval in 2023.

"We'll have a backlog of projects to work on once we receive that implementation funding, so it will put us in a good spot," Knutson said.

Knutson attributes the success of the Del Clark Lake projects to strong partnerships and collaboration.

"There's a lot of trust between our agencies," Knutson said. "We each have different strengths and different relationships we can bring together."



Targeted approach, deeper rewards



Crow Wing SWCD's Serpent Lake watershed-focused work that started with a Clean Water Fund pilot program grant in 2014 not only achieved its water quality goal but also strengthened partnerships in Deerwood and Crosby



VIDEO: "Serpent Lake Targeted Watershed" features one of the projects backed by the \$1.2 million Clean Water Fund targeted watershed grant: the stormwater treatment at the Summer Place cabins in Deerwood, which also solved a flooding issue.

EERWOOD — Serpent Lake is twice as clear as it was 10 years ago. The targeted conservation projects in Deerwood, Crosby and nearby Cranberry Lake that keep 4.7 tons of pollutant-carrying, algae-feeding sediment out of Serpent Lake each year helped to reverse a downward trend in its water quality.

Water clarity exceeded 30 feet in July, reaching 35.5 feet on July 14. The season's average was 27.2 feet. At its murkiest in 2012, water clarity measured 12.1 feet.

Together, more than \$1.5 million in projects backed by a \$1.2 million targeted watershed pilot program Clean Water

Fund grant the Minnesota Board of Water and Soil Resources (BWSR) awarded to the Crow Wing Soil & Water Conservation District (SWCD) in 2014 keep an estimated 80 pounds of phosphorus out of Serpent Lake annually.

One pound of phosphorus can produce up to 500 pounds of algae.

Phosphorus levels averaged 0.01 microgram per liter (ug/L) in 2021 and 2020. The state's threshold for the region is 0.03 ug/L. From 2013 through 2019, averages ranged from 0.013 to 0.015 ug/L. The grant sought to preserve and improve water quality to prevent Serpent Lake from becoming impaired.

From left: Crow Wing SWCD Board Chairman Jim Chamberlin, Deerwood Public Works Foreman Patrick Radtke, Serpent Lake Association Vice President Terry Tichenor, EOR Senior Project Manager Jay Michels and SWCD Manager Melissa Barrick met July 20, 2021, at the Summer Place cabins in Deerwood. **Photo Credits:** Ann Wessel, **BWSR**







A two-stage retention basin and iron-enhanced sand filter slow and treat runoff from a 30-acre drainage area in Deerwood, removing about 90% of the phosphorus. At the Summer Place on Serpent Lake, heavy rains had flooded some — but not all — of the 13 cabins. Getting all 13 property owners to agree to the project generated conflict and negotiation because those unaffected by flooding didn't want to give up land.

"I think this is a great success story. If you look at the long-term trends, this lake was clearly declining in water clarity," said Crow Wing SWCD Manager Melissa Barrick. "Within a short period of time after diagnosing a root cause, we were able to fix those problems."

The SWCD's shift in focus from projects to the people who make them happen was equally significant. It gained the buy-in from partners necessary to complete the work, built community support and spawned waterquality work elsewhere in the county — including stormwater work in nearby Crosslake.

"A lot of the water quality projects or conservation isn't necessarily about the project itself. It's more about trying to figure out how to work with the different people so that we can all win," Barrick said. "I really try to look at things as opportunities for what people are already wanting."

For example, after spending nearly a year trying to convince the Crosby City Council to allow a rain garden in a city park, the SWCD instead focused on resolving a longtime flooding issue.

The result replaced a failing 1920s-era stormwater pipe. It filters runoff from 18 acres through a system of

We didn't have a budget to take on ... a project like this ourselves. The grant opportunity was extremely helpful. We'd have never been able to do it, plus we don't have the expertise on our staff to take on a project like that.

Michael Aulie, Deerwood mayor



Smoke from distant wildfires cast a haze over Serpent Lake at the Summer Place cabins in Deerwood, site of one of the targeted watershed projects within the Serpent Lake watershed.

underground sediment traps and rain gardens. The targeted watershed grant contributed \$200,000.

"You've got to be looking at it as what's in it for the other person, not just us on the conservation side of things," Barrick said. "Once we changed gears and tried to solve a problem that they wanted to solve, it was like night and day."

On the opposite end of the lake, Deerwood had long grappled with flooding at some of the 13 Summer Place Association cabins.

There, the largest of three

targeted watershed grantsupported projects in the city installed a system that slows and treats runoff from 30 acres. Previously, untreated stormwater flowed directly into Serpent Lake through an under-sized pipe. The grant's \$500,000 contribution was nearly as much as the city's total annual budget.

"We're just grateful as a small city — as a very small city — that we were able to be a part of a project that has had the impact that this one has had. It's nothing that we could have even begun to think about on our own," said Deerwood Mayor Michael Aulie.

When the SWCD first approached the city of 532, Aulie said the council was cautious about making a financial commitment.

"It took a little bit of time for us to grasp the vision of it. Crow Wing Soil and Water worked with us pretty well on that," Aulie said. Once it learned the grant would be the primary funding source, the city agreed to support and maintain the project.

Deerwood Public Works Foreman Patrick Radtke completed much of the city's \$27,000 in-kind work. He's also responsible for some of the maintenance, and has checked the Summer Place project after storms.



From left: Barrick, Michels, Tichenor and Chamberlin discuss the targeted watershed project at the new outlet to Serpent Lake at the Summer Place cabins site in Deerwood.

"We have had quite a few heavy rainfalls after we put that one in, and it handled it great. The homeowners in that area are just overwhelmed (with) just how awesome it turned out. The people are happy. I think the lake is very happy — if the lake could talk," Radtke said.

With 9 miles of shoreline, 1,100-acre, 62-foot-deep Serpent Lake is among the Cuyuna Lakes Area's primary recreational and residential lakes. It draws swimmers, anglers, boaters and water-skiers to tourism-dependent Deerwood and Crosby. About 280 homes ring the lake. Roughly half of those lakeshore residents belong to the Serpent Lake Association.

The lake association spearheaded the Serpent Lake-focused work. While the SWCD staff implements projects, Crow Wing SWCD Board Chairman Jim Chamberlin said it's the partnerships, citizen-driven conservation planning and open communication that make water quality improvements possible.

"Sure, the water quality benefits that we're seeing are huge," said Chamberlin, a former Crow Wing SWCD technician who grew up in Deerwood. "More important is the success if you do the right thing on the land, you can turn things around for lakes that are degraded. The story is the community effort that that takes."

Targeted work will continue as Crow Wing SWCD and its partners develop community-driven One Watershed, One Plan priorities within the Pine River watershed. Barrick said the Serpent Lake experience made it easier to develop specific plans with measurable phosphorus-reduction goals for One Watershed, One Plan.

"In the end, I think you get a better result when you have a more specified plan rather than a plan that may include many options for all kinds of landowners," Barrick said. "I think you can make better choices if you have that data to guide you on where you should work."

Countywide, the SWCD has developed water-quality goals for 21 of its 533 lakes.

"I think things need to be targeted because dollars are limited. At the same time, I think education is huge because we all need to be conservationists," Chamberlin said.

That includes writing conservation into ordinances, and encouraging landowners to maintain their septic systems and restore their shoreline buffers.

"I've seen attitudes change on Serpent Lake. Parents of friends I grew up with on the lake (are) putting in buffers and rain gardens," Chamberlin said. "I think it already has changed attitudes and actions on the lake."

Serpent Lake Association Vice President Terry Tichenor said education is among the lake association's primary roles. That includes reminding lakeshore property owners that good water quality equals higher property values.

Tichenor, who moved to Serpent Lake full-time in 2014 and gets out on the water or ice three to four times a week, has noticed "well over 50%" of lakeshore property owners have installed some type of shoreline buffer to filter runoff.

"There's not really a history of the lake being more clear than it is now. We're riding a crest, and we want to do everything we can to keep it there," Tichenor said.

GRANT DETAILS, PROJECT PARTNERS

PROJECT SITES:

Deerwood — Grant funds contributed \$500,000 to stormwater treatment at the 13 Summer Place Association cabins; \$85,000 to infiltration basins that slow runoff at nearby Skone Park; and about \$107,000 (through a related grant) to a rain garden and check dam project on private land that reduces flooding on Cross Road. Crosby — \$300,000 supported a city stormwater treatment and flood reduction project. **Elsewhere** — \$90,000 supported a Cranberry Lake alum treatment that bound phosphorus; \$90,000 helped Crosby, Deerwood and Ironwood Township adopt stormwater ordinances.

MATCHES:

Monetary and in-kind contributions tied to the \$1.2 million grant awarded in 2014 totaled \$300,000 — \$133,000 cash, \$117,000 in-kind, plus \$50,000 in the value of land required for an easement to construct the Summer Place project. **Deerwood** — \$15,000 Skone Park match. The work affecting Cross Road, handled in a separate grant, was supported by \$30,000 in SWCD capacity dollars plus a \$5,000 landowner contribution. **Crosby** — \$50,000 city contribution, \$20,000 Hallett Community Trust Grant. Serpent Lake Association — \$48,000 contribution (\$12,000 a year for four years' matching funds), Summer Place site maintenance and water quality monitoring. **Combined** — Local government staff members' time and services including engineering and attorney fees.



Wetland trifecta: habitat, park, roads



Above: More than 64 acres of wetlands were restored after a former golf course in Andover was converted into a city park. **Inset:** Tree trunks removed during construction were placed in shallow ponds to provide habitat and basking opportunities for wildlife such as painted turtles. **Photo Credits:** BWSR

A Local Government Road Wetland Replacement Program restoration on the site of a former golf course in Andover benefits birds and pollinators, those who use the 1.7-mile-long trail, and highways and bridges in need of work

ANDOVER — A partnership between the Minnesota Board of Water and Soil Resources (BWSR) and the city of Andover transformed the former Woodland Creek Golf Course into a 64.3-acre wetlands restoration that today functions as a popular city park.

"Opportunities to restore wetlands in the Twin Cities metropolitan area are hard to come by due to a combination of factors including high land values, environmental stressors and project constraints related to adjacent land uses," said Ken Powell, BWSR Wetland Conservation



Act operations supervisor. "When an opportunity came up to restore an abandoned golf course back to wetland habitat, BWSR was up for the challenge."

The project area was partially drained

and farmed decades prior to its conversion to a golf course in 1991. After management ceased in 2008, the golf course became overgrown with weeds. It was identified as a potential restoration site for BWSR's Local Government Road Wetland Replacement Program (LGRWRP). The LGRWRP, which is primarily supported by legislative bonding funds, provides mitigation for lost ecological functions and values of wetlands that are affected by repairs, rehabilitation or replacement of local public roads.

Once BWSR staff identified the property as a potential good fit for the LGRWRP, they approached the city of Andover. The city purchased the property in October 2013; shortly thereafter, BWSR acquired a perpetual conservation easement from the city to establish the wetland mitigation site. The city benefited by gaining public recreation space with a 1.7-mile-long mowed walking trail that has since become popular with walkers, birdwatchers and joggers. BWSR gained high demand wetland mitigation credits for the I GRWRP.

Contractors moved fill from the former tee boxes and mounds into ponds, and flattened slopes to maximize opportunities to establish native vegetation. Construction began in June 2017 and concluded in spring 2018. Wet conditions resulted in a longer construction timeframe than anticipated – but that extended timeline came with a silver lining.

"The delay provided more opportunities to control existing invasive vegetation such as non-native cattails, Canada thistle and reed canary grass," said Dan Shaw, BWSR senior ecologist and vegetation specialist. "With many projects, we have a short window of time to control invasive vegetation before hydrology is restored. In this case, we



Above: A 1.7-mile mowed trail winds through restored wetlands in the city park that replaced the former Woodland Creek Golf Course. **Below:** Wild rice growing in a restored wetland offers structural diversity and food for wildlife.



had two growing seasons, providing excellent control of problematic weeds and allowing for successful establishment of native plants and biodiversity across the site."

Contractors sowed native seeds and installed potted plants – including water lilies the Como Zoo raised from tubers – to increase plant diversity in open water areas of the park. White and yellow water lilies were then installed in the shallows of several wetlands; BWSR observes these plantings annually to monitor establishment.

"In addition to water lilies, we are also seeing a lot of wild rice — an unexpected but pleasant surprise, as it wasn't part of the restoration plan," Carol Strojny, BWSR monitoring coordinator said. "Wild rice provides great structural diversity in the deeper wetlands and is an excellent source of wildlife food."

The project's restoration plan included tree removal to eradicate non-native ornamental trees and to clear the pond edges in preparation for construction. Pond edges were re-graded to be more shallowly sloped, creating

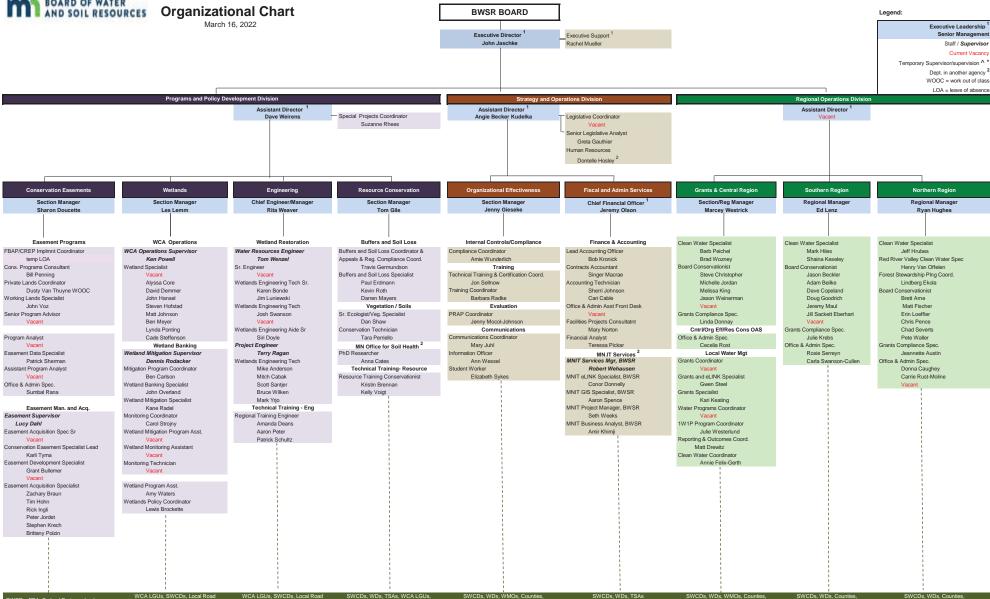


shallow marsh habitat. Trunks from the removed trees were place in the deeper part of the restored wetlands to provide habitat and basking opportunities for wildlife, such as painted turtles.

While monitoring vegetation and hydrology at the park, BWSR staff has frequently observed songbirds, waterbirds, raptors, trumpeter swans and sandhill cranes. The diverse vegetation also offers habitat for monarch butterflies — listed as federally endangered in December 2020 — and other pollinators.

The park also offers unique opportunities to illustrate the value of wetland restorations. Last September, BWSR held a field day at the site for 11 Increasing Diversity in Environmental Careers (IDEC) fellows. The IDEC program provides a collegeto-careers pathway for under-represented science, technology, engineering and mathematics (STEM) college students who want to pursue a career in environment and natural resources. Students receive a fellowship, mentorship and paid internship through IDEC, which is funded by the **Environment and Natural** Resources Trust Fund.

"At the end of a project, it's rewarding to step back and see all the positive outcomes," Strojny said. "There's not only a dramatic shift in vegetation, but public enjoyment of the now permanently protected space."



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Supervisor Sic	nature					Date		Work F	Phone:			Sign	ature .								Date			

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EMPLOYEE EXPENSE REPORT (Instructions)

DO NOT PAY RELOCATION EXPENSES ON THIS FORM.

See form FI-00568 Relocation Expense Report. Relocation expenses must be sent to Minnesota Management & Budget, Statewide Payroll Services, for payment.

USE OF FORM: Use the form for the following purposes:

- 1. To reimburse employees for authorized travel expenses.
- 2. To request and pay all travel advances.
- 3. To request reimbursement for small cash purchases paid for by employees.

COMPLETION OF THE FORM: Employee: Complete, in ink, all parts of this form. If claiming reimbursement, enter actual amounts you paid, not to exceed the limits set in your bargaining agreement or compensation plan. If you do not know these limits, contact your agency's business expense contact. Employees must submit an expense report within 60 days of incurring any expense(s) or the reimbursement comes taxable.

All of the data you provide on this form is public information, except for your home address. You are not legally required to provide your home address, but the state of Minnesota cannot process certain mileage payments without it.

	Ea	rn Code		Ea	rn Code		
Description	In State	Out of State	Description	In State	Out of State		
Advance	ADI	ADO	Membership	MEM			
Airfare	ARI	ARO	Mileage > IRS Rate	MIT*	MOT*		
Baggage Handling	BGI	BGO	Mileage < or = IRS Rate	MLI	MLO		
Car Rental	CRI	CRO	Network Services		NWK		
Clothing Allowance		CLA	Other Expenses	OEI	OEO		
Clothing-Non Contract		CLN	Parking	PKI PKO			
Communications - Other		COM	Photocopies	CPI CPO			
Conference/Registration Fee	CFI	CFO	Postal, Mail & Shipping Svcs.(outbound)	PMS			
Department Head Expense	DHE		Storage of State Property	STO			
Fax	FXI FXO		Supplies/Materials/Parts	SMP			
Freight & Delivery (inbound)	FDS		Telephone, Business Use	BPI	BPO		
Hosting	HST		Telephone, Personal Use	PHI	PHO		
Laundry	LDI	LDO	Training/Tuition Fee	TRG			
Lodging	LGI	LGO	Taxi/Airport Shuttle	TXI	TXO		
Meals With Lodging	MWI	MWO	Vest Reimbursement	nent VST			
Meals Without Lodging	MEI*	MEO*	Note: * = taxable, taxed at supplemental rates				

Supervisor: Approve the correctness and necessity of this request in compliance with existing bargaining agreements or compensation plans and all other applicable rules and policies. Forward to the agency business expense contact person, who will then process the payments. Note: The expense report form must include original signatures.

Final Expense For This Trip?: Check this box if there will be no further expenses submitted for this trip. By doing this, any outstanding advance balance associated with this trip will be deducted from the next paycheck that is issued.

1-Way Commute Miles: Enter the number of miles from your home to your permanent workstation.

Expense Group ID: Entered by accounting or payroll office at the time of entering expenses. The Expense Group ID is a unique number that is system-assigned. It will be used to reference any advance payment or expense reimbursement associated with this trip.

Earn Code: Select an Earn Code from the list that describes the expenses for which you are requesting reimbursement. Be sure to select the code that correctly reflects whether the trip is in state or out-of-state. **Note:** Some expense reimbursements may be taxable.

Travel Advances, Short-Term and Recurring: An employee can only have one outstanding advance at a time. An advance must be settled before another advance can be issued.

Travel Advance Settlement: When the total expenses submitted are less than the advance amount or if the trip is cancelled, the employee will owe money to the state. Except for rare situations, personal checks will not be accepted for settlement of advances; a deduction will be taken from the employee's paycheck.

FMS ChartStrings: Funding source(s) for advance or expense(s)

Mileage: Use the Mileage Reimbursement Calculation table to figure your mileage reimbursement. Mileage may be authorized for reimbursement to the employee at one of three rates (referred to as the equal to, less than, or greater than rate). The rates are specified in the applicable bargaining agreement/compensation plan. Note: If the mileage rate you are using is above the IRS rate at the time of travel (this is not common), part of the mileage reimbursement will be taxed.

Vehicle Control #: If your agency assigns vehicle control numbers follow your agency's internal policy and procedure. Contact your agency's business expense contact for more information on the vehicle control number procedure.

Personal Travel Benefits: State employees and other officials cannot accept personal benefits resulting from travel on state business as their own. These benefits include frequent flyer miles/points and other benefits (i.e. discounts issued by lodging facilities.) Employees must certify that they have not accepted personal travel benefits when they apply for travel reimbursement.

Receipts: Attach itemized receipts for all expenses except meals, taxi services, baggage handling, and parking meters, to this reimbursement claim. The Agency Designee may, at its option, require attachment of meal receipts as well. Credit card receipts, bank drafts, or cancelled checks are not allowable receipts.

Copies and Distribution: Submit the original document for payment and retain a copy for your employee records.

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