



# Grant Progress Report

## Watershed Based Implementation FEB 2022

**Grant Title:** Pine River 1W1P Phase 2

**Grant ID:** C22-9953

**Grantee:** Crow Wing SWCD

**Fiscal Agent:** Crow Wing SWCD

**Grant Day-to-Day Contact:** Melissa Barrick

**Grant Award (\$):** \$604,421.00

**Amended Grant Award (\$):** \$604,421.00

**Required Match (%):** 10

**Required Match (\$):** \$60,442.10

**Grant Execution Date:** 05/05/2022

**Grant End Date:** 12/31/2025

**Amended Grant End Date:** 12/31/2025

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$604,421.00	\$603,268.21	\$1,152.79
Match Funds	\$60,442.10	\$76,260.20	(\$15,818.10)
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$664,863.10	\$679,528.41	(\$14,665.31)

\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Project Abstract	<p>The Crow Wing (CW) and Cass County Soil and Water Conservation Districts (SWCD), and Cass and CW Counties will implement the following Pine River Comprehensive Watershed Management Plan and County Water Plan Action Items:</p> <ol style="list-style-type: none"><li>1. Complete 20 Forest Stewardship plans and 20 best management practices for approximately 2,000 acres in high priority lakeshed (as identified in Table 7.4, page 90) based on Pine River Forest Landscape Plan and Riparian Adjacent Quality scoring mythology.</li><li>2. Inventory Stormwater inputs and culverts for Upper Whitefish and Clamshell and City of Pine River.</li><li>3. Install 16 stormwater or shoreline buffer practices around Pig, Clamshell, and Big Trout Lakes.</li><li>4. Culvert inventory and provide cost-share funds to townships to replace existing culverts.</li><li>5. Host four workshops for contractors, service providers, and individuals on chloride management. Train 60 people in best management practices to reduce chlorides. Cost-Share with one local government to upgrade equipment to reduce chloride</li></ol>
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Proposed Measurable Outcomes	usage.
	6. Seal over 30 wells in high priority locations for surficial sand aquifers
	7. Partner with 13 landowners to complete grazing management plans and best management practices within the Upper Whitefish Watershed.
Proposed Measurable Outcomes	The 2019 Cass and CW Counties property tax assessment report that the Pine River Watershed contains over 6.5 billion dollars of property value. To ensure this area retains its value, this project will implement targeted and high-priority BMPs. This project reflects the lessons learned from SWCD's \$ 1.2 million Targeted Watershed projects, which included the use of media resources, site preparation, design components, communication, oversight of contractors, site inspections, and project evaluation. The SWCD believes that if runoff and protection problems are not addressed within Pine River Watershed that the water visibility will continue to decrease, negatively altering the quality of life and economic vitality of Cass and CW Counties.
	This project will increase 5,024 acres of protection for lakes, groundwater, habitat, and forest by one percent. The installed practices will reduce phosphorous by an estimated five percent of the total lake goals (as identified in Table 7.5, page 9)

## Budget Details

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Grant Administration	Administration/Coordination	Current State Grant	Pine River 1W1P Phase 2	\$48,000.00	\$48,756.32	(\$756.32)	N
Pasture Management	Agricultural Practices	Current State Grant	Pine River 1W1P Phase 2	\$45,000.00	\$36,777.10	\$8,222.90	N
Marketing/Supplies	Education/Information	Current State Grant	Pine River 1W1P Phase 2	\$10,000.00	\$12,123.21	(\$2,123.21)	N
Chlorides Training	Education/Information	Current State Grant	Pine River 1W1P Phase 2	\$40,000.00	\$26,063.51	\$13,936.49	N
Private Forest Management	Forestry Practices	Current State Grant	Pine River 1W1P Phase 2	\$45,000.00	\$44,394.82	\$605.18	N
Whitefish Stormwater Input Analysis	Planning and Assessment	Current State Grant	Pine River 1W1P Phase 2	\$55,000.00	\$47,879.27	\$7,120.73	N
Project Development	Project Development	Current State Grant	Pine River 1W1P Phase 2	\$41,000.00	\$51,160.80	(\$10,160.80)	N
Shoreline Buffers and Raingardens	Streambank or Shoreline Protection	Current State Grant	Pine River 1W1P Phase 2	\$200,421.00	\$205,035.55	(\$4,614.55)	N

<i>Activity Name</i>	<i>Category</i>	<i>Source Type</i>	<i>Source Description</i>	<i>Budgeted</i>	<i>Spent</i>	<i>Balance Remaining</i>	<i>Match Fund?</i>
Great Plains Native Seed Drill	Supplies/Equipment	Current State Grant	Pine River 1W1P Phase 2	\$50,000.00	\$49,720.70	\$279.30	N
Technical Assistance	Technical/Engineering Assistance	Current State Grant	Pine River 1W1P Phase 2	\$50,000.00	\$61,356.93	(\$11,356.93)	N
Culvert Replacement	Urban Stormwater Management Practices	Current State Grant	Pine River 1W1P Phase 2	\$20,000.00	\$20,000.00	\$0.00	N
Match	Project Development	Federal Funds	319 Small Watershed Grant	\$39,814.20	\$73,250.20	(\$33,436.00)	Y
Match	Project Development	Landowner Fund	Pine River WBIF Phase 2 Landowner Contribution	\$12,227.90		\$12,227.90	Y
Great Plains Native Seed Drill	Supplies/Equipment	Landowner Fund	Payment for use of native seed drill	\$8,400.00	\$3,010.00	\$5,390.00	Y

## Indicator Summary

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Sediment (Tss)	1.9	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	13.05	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	16.29	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	14.45	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	3.25	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	9.6	Lbs/Yr

## Grant Activities

### Activity Name: Chlorides Training

**Activity Category:** Education/Information

**Staff time?:** No

**Description:** Train service providers; work with townships, municipalities, and resort individuals to develop chloride reduction plans based on individual needs and services.

#### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$40,000.00	\$26,063.51	\$13,936.49	09/17/2025	N

## Actual Results

### Results

### Date Added

We established a contract with Bolton and Menk for the following items: meetings with cities, townships, and resorts to discuss salt usage, water softener discharge calculator, chloride trainings, and awareness campaigns. No expenses have been billed yet.

3/8/2022 12:41:00 PM

Bolton and Menk, Minnesota Water Quality Association, and Crow Wing SWCD hosted an Optimization for Water Softeners training on May 3rd. The training had 5 people attend from Finken, Aquarius, and Culligan Water.

1/4/2024 1:28:31 PM

Bolton and Menk, Minnesota Pollution Control Agency, and Crow Wing and Cass SWCD hosted 3 smart salting trainings. The Smart Salting for Property Management had 59 participants, Smart Salting for Parking Lots and Sidewalks had 51 participants, and Smart Salting for Roads had 29 participants.

Bolton and Menk have contacted 7 cities and 4 resorts about salt usage. Discussions will be happening in the winter of 2024 regarding salting policies.

Bolton and Menk finished a water softener discharge calculator to estimate the salt usage of a specific lake.

Bolton and Menk created 3 articles and 4 facebook posts regarding chloride. The district has distributed that information to 550 people.

2 additional smart slating traings were held; 1 for sidewalks/parking lots, 1 for property management.

12/18/2024 3:11:14 PM

## Activity Name: Culvert Replacement

**Activity Category:** Urban Stormwater Management Practices

**Staff time?:** No

**Description:** Use road replacement plans combined with culvert inventory to target replacement of failing/fish blocking culverts based on water quality issues.

### **Budget Details**

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$20,000.00	\$20,000.00	\$0.00	01/15/2025	N

## Actual Results

### Results

### Date Added

No expenses have been billed yet	3/8/2022 12:40:50 PM
No expenses have been billed yet.	1/4/2024 3:14:22 PM
No expenses have been billed yet.	12/18/2024 3:18:28 PM

## Activity Name: Grant Administration

**Activity Category:** Administration/Coordination

**Staff time?:** Yes

**Description:** Complete required reporting, pay contractors, pay bills, track hours and expenses, organize policy committee and advisory committee meetings.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$48,000.00	\$48,756.32	(\$756.32)	09/30/2025	N

## Actual Results

### Results

### Date Added

No expenses have been billed yet.	3/8/2022 12:41:38 PM
Admin time for paying bills, grant reporting, and paying staff.	1/23/2024 2:06:39 PM
Admin time for paying bills. grant reporting and paying staff.	12/18/2024 3:19:45 PM

## Activity Name: Great Plains Native Seed Drill

**Activity Category:** Supplies/Equipment

**Staff time?:** No

**Description:** To purchase a 10ft Great Plains native seed drill. The 10ft Great plains native seed drill be rented to individual farmers to help them plant cover crops and native seeds.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Landowner Fund	Payment for use of native seed drill	\$8,400.00	\$3,010.00	\$5,390.00	09/12/2024	Y
Current State Grant	Pine River 1W1P Phase 2	\$50,000.00	\$49,720.70	\$279.30	09/17/2025	N
<b>Actual Results</b>						
<u>Results</u>					<u>Date Added</u>	
A purchase order was submitted on July 21st, 2022 for a 10 ft Truax native seed drill. The total cost was \$42,748. The Crow Wing SWCD should receive this in the spring 2023.					3/8/2022 12:41:14 PM	
The 10 ft Truax native seed drill was delivered on May 3rd, 2023. The drill was rented out to 3 landowners for 70 acres. All seedings fell under the NRCS practice standard of 512- Pasture and Hay Planting.					1/4/2024 1:21:21 PM	
The district received inquiries from 10 producers.						
The Drill was rented out three times. No new expenses.					12/18/2024 3:20:40 PM	

Activity Name: Marketing/Supplies						
Activity Category: Education/Information					Staff time?: No	
Description: To pay for printing materials, advertisements, design costs, videos, Facebook ads, google ads, and other items needed to help recruit landowners. Other supplies that are needed for project activities.						
Budget Details						
Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Pine River 1W1P Phase 2	\$10,000.00	\$12,123.21	(\$2,123.21)	01/18/2024	N
Actual Results						
Results					Date Added	
No expenses have been billed yet.					3/8/2022 12:42:11 PM	
Supplies purchased for trainings, water monitoring, and native seed drill components.					1/23/2024 2:08:15 PM	

<u>Results</u>	<u>Date Added</u>
No new expenses.	12/18/2024 3:37:51 PM

Activity Name: Match						
Activity Category: Project Development					Staff time?: No	
Description: The Whitefish subwatershed was selected for Federal 319 Grant Small Watershed. Federal funds will match this grant.						
Budget Details						
Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Landowner Fund	Pine River WBIF Phase 2 Landowner Contribution	\$12,227.90		\$12,227.90		Y
Federal Funds	319 Small Watershed Grant	\$39,814.20	\$73,250.20	(\$33,436.00)	01/23/2024	Y
Actual Results						
Results					Date Added	
Projects are in que for the Federal 319 grant for spring 2023. Nothing has been matched yet.					4/12/2022 12:04:20 PM	
A total of \$73,250 has been matched through a 319 Small Watershed grant from the EPA.					12/18/2024 3:38:46 PM	

Activity Name: Pasture Management	
Activity Category: Agricultural Practices	Staff time?: Yes
Description: Develop grazing plans for 120 acres, stream exclusions, soil health practices for 170 acres. After completing the projects, we will work with NRCS to develop pollution reductions. We will hire a consultant to assist with landowner outreach. We will base prioritization and pollution reductions based on the PTMapp.	
Certified grazing plan writers will be used to develop grazing plans.	
Budget Details	

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$45,000.00	\$36,777.10	\$8,222.90	01/15/2025	N
Actual Results						
<u>Results</u>					<u>Date Added</u>	
No projects have been implemented yet. A contract with Abe Hollister for outreach was signed on 1/18/23 for \$15,000. The contract runs from 1/18/23-12/31/23.					3/8/2022 12:40:33 PM	
All but \$304.02 have not been encumbered or spent. The Crow Wing and Cass SWCD contracted with Abe Hollister, a local farmer, to conduct agricultural outreach. Abe has met with 15 producers regarding management and implementing conservation practices. The remaining funds have been spent on four projects. The funds have implemented 50.7 acres of cover crops, 43 acres of pasture and hay planting, and 96 acres of grazing plans with practices of pipeline, fence, watering facility, and prescribed grazing.					1/4/2024 3:15:27 PM	
2 additional pasture management practices have been completed; a pasture planting and goat grazing. Funds for outreach that were previously encumbered have now been spent.					12/18/2024 3:45:37 PM	
Final Indicators						
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>				
Phosphorus (Est. Reduction)	9.6	Lbs/Yr				

Activity Action Name: Johnson				Activity Count: 1	
Practice Type: 382 - Fence				Size/Units: 50 - Acres	
TA Provider/JAA: SWCD				Lifespan: 10 Years	
Practice Description: Fencing and Grazing				Install Date: 07/31/2024	
				Mapped: Yes	
Indicator Name	Units	Value	Calculation Tool	Waterbody	
Phosphorus (Est. Reduction)	Lbs/Yr	6	HSPF SAM - 12 Digit HUC	Pine River	

Activity Action Name: Wynn Neumann				Activity Count: 1
Practice Type: 382 - Fence				Size/Units: 30 - Acres
TA Provider/JAA: SWCD				Lifespan: 10 Years
Practice Description: Fence, Livestock Pipeline, prescribed grazing.				Install Date:
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	3.6	HSPF SAM - 12 Digit HUC	Pine River

## Activity Name: Private Forest Management

**Activity Category:** Forestry Practices

**Staff time?:** Yes

**Description:** Complete 20 Forest Management Plans for 2000 acres. Landowners enroll 800 acres into SFIA and complete ten best management practices (BMP). Utilize RAQ scores and Pine River Landscape Stewardship plan as prioritization process for landowner outreach and solicitation. All landowners will be required to enroll into SFIA or complete a BMP on their property.

Certified private forest plan writers will be used to develop forest stewardship plans.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$45,000.00	\$44,394.82	\$605.18	11/19/2025	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
5 plans for \$6631.70 are in que. 2 project BMPs for \$4320.00 are in que. One contract has been signed and the other signed in February. No expenses have been spent yet.	3/8/2022 12:39:48 PM

**Results****Date Added**

31 forest stewardship plans have been completed and paid, 12 plans are in que, and 2 projects have been completed. 3,733 acres have been enrolled into SFIA, 2C, or a conservation easement. 1/4/2024 3:28:19 PM

14 new forest stewardship plans were written for a total of 4678 acres. 4069 total acres are enrolled in SFIA, 2C, or a conservation easement. 12/18/2024 3:50:36 PM  
1 BMP was implemented to clear 3 acres of invasive buckthorn.

Activity Action Name: Carrie Guida

Practice Type: 391 - Riparian Forest Buffer

TA Provider/JAA: SWCD

Practice Description:

Activity Count: 1

Size/Units: 3 - Acres

Lifespan: 10 Years

Install Date: 12/31/2023

Mapped: Yes

**Activity Name: Project Development**

**Activity Category:** Project Development

**Staff time?:** Yes

**Description:** Staff time to help develop and implement grant objectives. Talking to landowners, developing contracts, working lake associations, meetings, phone calls, and correspondence with partners.

**Budget Details**

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$41,000.00	\$51,160.80	(\$10,160.80)	10/31/2025	N

**Actual Results****Results****Date Added**

No expenses have been spent yet. 3/8/2022 12:41:27 PM

Time spent for staff to develop projects 1/23/2024 2:25:33 PM

No new expenses. 12/18/2024 4:07:19 PM

## Activity Name: Shoreline Buffers and Raingardens

**Activity Category:** Streambank or Shoreline Protection

**Staff time?:** Yes

**Description:** Implement near-shore stormwater infiltration best management practices on developed lots based off plan priority lakes.

\$85,000 will be used for the Crosslake Phase III Stormwater project. This will increase that total to \$300,000. The proposed measurable outcomes will be 2.07 pounds of phosphorus and .74 tons of sediment treated. The project will treat 17.42 acres within the City of Crosslake and rehabilitate 1 filtration basin, install 2 hydrodynamic separators, and install 1 raingarden. The total project is 4.6 million which could be used as a match.

\$37,279 will be used towards a project on Clamshell Lake to restore 175 linear ft of shoreline. 18 inch coir logs will replace an old failing retaining wall. The match towards the project will be \$45,000 provided by the landowner.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$200,421.00	\$205,035.55	(\$4,614.55)	10/15/2025	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
7 projects are in que for spring 2023. The total cost share amount is \$42,414. No projects have been completed nor paid yet.	3/8/2022 12:40:19 PM
The districts have completed 6 shoreline restoration and 1 raingarden project. The projects have reduced 4.42 pounds of phosphorus and .54 tons of sediment. In addition, 600 linear feet and 56,500 square feet of natural buffer was installed. Furthermore, 4 projects will be completed in the spring 2024.	1/23/2024 2:26:34 PM
7 shoreline/streambank projects have been implemented and there are no funds remaining for this category.	12/18/2024 4:11:35 PM

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	16.29	Lbs/Yr
Sediment (Tss)	14.45	Tons/Yr
Soil (Est. Savings)	3.25	Tons/Yr

Activity Action Name: Sarah Vanbeck				Activity Count: 1
Practice Type: 327 - Conservation Cover				Size/Units: 0.0249 - Acres
TA Provider/JAA: SWCD				Lifespan: 10 Years
Practice Description: The project included 93 linear feet of shoreline stabilization(580) via willow wattle				Install Date: 07/19/2023
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.02	Bwsr Calc (Sheet And Rill)	Ada
Phosphorus (Est. Reduction)	Lbs/Yr	1.39	Bwsr Calc (Sheet And Rill)	Ada
Sediment (Tss)	Tons/Yr	1.04	Bwsr Calc (Sheet And Rill)	Ada

Activity Action Name: Amy Flynn-Brennan				Activity Count: 1
Practice Type: 327 - Conservation Cover				Size/Units: 0.0172 - Acres
TA Provider/JAA: SWCD				Lifespan: 10 Years
Practice Description:				Install Date: 05/27/2023
				Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0	Bwsr Calc (Sheet And Rill)	Ruth
Sediment (Tss)	Tons/Yr	0.68	Bwsr Calc (Sheet And Rill)	Ruth
Phosphorus (Est. Reduction)	Lbs/Yr	1.28	Bwsr Calc (Sheet And Rill)	Ruth

Activity Action Name:	Marcia Gardner	Activity Count: 1
Practice Type:	327 - Conservation Cover	Size/Units: 0.0484 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	This practice also included 95 linear feet of shoreline stabilization via willow wattle	Install Date: 07/08/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.49	Bwsr Calc (Sheet And Rill)	Ossawinnamakee
Sediment (Tss)	Tons/Yr	0.33	Bwsr Calc (Sheet And Rill)	Ossawinnamakee
Soil (Est. Savings)	Tons/Yr	0.02	Bwsr Calc (Sheet And Rill)	Ossawinnamakee

Activity Action Name:	Robert Eddy	Activity Count: 1
Practice Type:	327 - Conservation Cover	Size/Units: 0.0966 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:		Install Date: 06/29/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.22	Bwsr Calc (Sheet And Rill)	Roosevelt
Phosphorus (Est. Reduction)	Lbs/Yr	0.19	Bwsr Calc (Sheet And Rill)	Roosevelt
Sediment (Tss)	Tons/Yr	0.22	Bwsr Calc (Sheet And Rill)	Roosevelt

Activity Action Name:	Chuck Brandes	Activity Count: 1
Practice Type:	327 - Conservation Cover	Size/Units: 0.887 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:		Install Date: 09/25/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	11.42	Bwsr Calc (Sheet And Rill)	Lower Whitefish
Soil (Est. Savings)	Tons/Yr	2.98	Bwsr Calc (Sheet And Rill)	Lower Whitefish
Phosphorus (Est. Reduction)	Lbs/Yr	11.86	Bwsr Calc (Sheet And Rill)	Lower Whitefish

Activity Action Name:	Cory Ziegler	Activity Count: 1
Practice Type:	327 - Conservation Cover	Size/Units: 0.0183 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	This project included Streambank stabilization(580) via 100 linear feet of willow wattle	Install Date: 08/29/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.01	Bwsr Calc (Sheet And Rill)	Ossawinnamakee
Sediment (Tss)	Tons/Yr	0.69	Bwsr Calc (Sheet And Rill)	Ossawinnamakee
Phosphorus (Est. Reduction)	Lbs/Yr	0.94	Bwsr Calc (Sheet And Rill)	Ossawinnamakee

Activity Action Name: Emily Gunn Practice Type: 327 - Conservation Cover TA Provider/JAA: SWCD Practice Description:				Activity Count: 1 Size/Units: 0.0314 - Acres Lifespan: 10 Years Install Date: 09/21/2023 Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.07	Bwsr Calc (Sheet And Rill)	Lower Whitefish
Soil (Est. Savings)	Tons/Yr	0	Bwsr Calc (Sheet And Rill)	Lower Whitefish
Phosphorus (Est. Reduction)	Lbs/Yr	0.14	Bwsr Calc (Sheet And Rill)	Lower Whitefish

## Activity Name: Technical Assistance

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** Yes

**Description:** Funds will be used to design, survey, site visits, post site visits, communication with the contractor, work with landowners to install the BMP on their property. Some funds may be used to hire engineering services if needed depending on the scope of work required.

District technician staff will design and work with contractors to come up with site plans and sign off on projects with appropriate JAA by staff. If technicians do not have appropriate JAA, plans and project completion will be approved by NRCS staff or TSA 8 engineer.

District Technician Staff JAA-

Conservation Cover- 327, Shoreline Restoration- 580, Critical Area Planting- 342, Brush Management- 314, Early Successional Habitat Development- 647, Forest Stand Improvement- 666, Prescribed Burning- 338, Tree Shrub Site Prep- 490, Tree Shrub Establishment- 612

For projects requiring engineering services, plans, project installation, and project completion will be signed off on by the private sector or TSA 8 staff.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$50,000.00	\$61,356.93	(\$11,356.93)	10/31/2025	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
No expenses have been billed yet.	3/8/2022 12:42:00 PM
Technical time working with contractors and surveying on projects.	1/23/2024 2:36:49 PM
Tech time working with contractors and surevying projects.	12/18/2024 4:13:09 PM

## Activity Name: Whitefish Stormwater Input Analysis

**Activity Category:** Planning and Assessment

**Staff time?:** No

**Description:** Funds will be used to determine the work needed for implementation. This will help understand the best way to reach our phosphorus goal for Whitefish Lake. The HSPF model did not determine specific locations/practices to work on the Whitefish Chain.

Conduct stormwater training between SWCD and county staff, examine the feasibility of in-stream practices, and conduct phosphorous sediment core samples on Upper Whitefish Lake.

### Budget Details

<u>Source Type</u>	<u>Source Description</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Balance Remaining</u>	<u>Last Transaction Date</u>	<u>Match Fund?</u>
Current State Grant	Pine River 1W1P Phase 2	\$55,000.00	\$47,879.27	\$7,120.73	06/30/2024	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
EOR has completed the kickoff meeting and identified steps to update the 2010 bathtub model. They have identified sites with potential for high amounts of legacy phosphorous in the watershed. One invoice for \$4987.88 has been billed to date.	3/8/2022 12:41:50 PM
Crow Wing SWCD managed 12 stream sites throughout the summer of 2023. Samples were collected during large storm events. From that data, EOR identified 46 locations within 3 distinct areas to collect soil samples. These areas were consistently higher for Phosphorus.	1/23/2024 2:37:45 PM
EOR has drafted an internal/external loading report from the in-lake sediment core samples and stream sampling. This report is tied to the Whitefish Bathtub model to be completed in 2024.	
The study has been completed and potential project sites have been identified for outreach and project planning for future phases.	12/18/2024 4:13:52 PM