



# Grant Work Plan

## Watershed Based Implementation MAY 2022

**Grant Title:** Leech Lake River Implementation Phase 2

**Grant ID:** C22-3556

**Grantee:** Cass SWCD

**Fiscal Agent:** Cass SWCD

**Grant Day-to-Day Contact:** Dana Gutzmann

**Grant Award (\$):** \$675,115.00

**Amended Grant Award (\$):** \$675,115.00

**Required Match (%):** 10

**Required Match (\$):** \$67,511.50

**Grant Execution Date:** 08/19/2022

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

**Amended Grant End Date:**

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$675,115.00	\$592,681.62	\$82,433.38
Match Funds	\$74,337.00	\$241,994.26	(\$167,657.26)
Other Funds	\$8,088.50	\$8,088.50	\$0.00
<b>Total</b>	<b>\$757,540.50</b>	<b>\$842,764.38</b>	<b>(\$85,223.88)</b>

\*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 Cass County and Hubbard Soil and Water Conservation Districts (SWCD), and Cass and Hubbard Counties will implement the following Leech Lake River Comprehensive Watershed Management Plan Action Items:</p> <ol style="list-style-type: none"> <li>1. Complete 25 Forest Stewardship plans for approximately 2,500 acres in high priority watersheds based on Leech Lake River River 1W1P plan.</li> <li>2. Assessment study of Lake May Creek and the Necktie River for channel restoration and culvert replacement.</li> <li>3. Install 8 shoreline buffer practices in identified priority watersheds.</li> <li>4. Cost Share with Landowners to install pasture management practices to better water quality.</li> <li>5. Cost-Share with both Cass and Hubbard County Highway Departments to upgrade equipment to reduce chloride usage.</li> <li>6. Replace Big Deep Lake Outlet Culvert and install catchment basins, which is located on the Boy River.</li> <li>7. Cost share with the City of Walker to install additional Stormwater defender on Cleveland Blvd.</li> </ol>

### Proposed Measurable Outcomes

1. 2,500 additional acres of PFM,
2. Removal of additional 1,250 pounds of sediment.
3. Removal of 8 pounds of Phosphorus and 16 pounds of Nitrogen.
4. 30% reduction in chloride usage for 2 salt trucks in watershed.

### Budget Details

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Local Fund	Lake Association	\$1,000.00	\$1,000.00	\$0.00	Y
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Local Fund	Wabedo Township	\$8,000.00	\$8,000.00	\$0.00	Y
Local Match for Projects	Urban Stormwater Management Practices	Local Fund	City of Walker Funds	\$20,000.00	\$179,117.00	(\$159,117.00)	Y
Grant Administration	Administration/Coordination	Current State Grant	Leech Lake River Implementation Phase 2	\$13,000.00	\$10,199.76	\$2,800.24	N
Pasture Management	Agricultural Practices	Current State Grant	Leech Lake River Implementation Phase 2	\$0.00	\$0.00	\$0.00	N
Forestry Practices	Forestry Practices	Current State Grant	Leech Lake River Implementation Phase 2	\$23,811.03	\$19,490.78	\$4,320.25	N
Roof Run-off management for erosion control	Livestock Waste Management	Current State Grant	Leech Lake River Implementation Phase 2	\$17,752.04	\$17,752.04	\$0.00	N
Chloride Reduction	Non-Structural Management Practices	Current State Grant	Leech Lake River Implementation Phase 2	\$92,000.00	\$72,912.34	\$19,087.66	N
Project Development	Project Development	Current State Grant	Leech Lake River Implementation Phase 2	\$144,897.00	\$116,453.01	\$28,443.99	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>
Shoreline Stabilization	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 2	\$70,000.00	\$42,723.31	\$27,276.69	N
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Other Funds	2021 - SWCD Local Capacity Services (Cass SWCD)	\$8,088.50	\$8,088.50	\$0.00	N
Stony Creek Culvert Replacement	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 2	\$148,972.93	\$148,972.93	\$0.00	N
Technical Services	Technical/Engineering Assistance	Current State Grant	Leech Lake River Implementation Phase 2	\$84,682.00	\$84,177.45	\$504.55	N
Stormwater-City of Walker	Urban Stormwater Management Practices	Current State Grant	Leech Lake River Implementation Phase 2	\$80,000.00	\$80,000.00	\$0.00	N
Pasture Management	Agricultural Practices	Landowner Fund	Landowner Match	\$0.00		\$0.00	Y
Forestry Practices	Forestry Practices	Landowner Fund	Landowner Match	\$8,899.00	\$9,148.19	(\$249.19)	Y
Roof Run-off management for erosion control	Livestock Waste Management	Landowner Fund		\$4,438.00	\$5,917.34	(\$1,479.34)	Y
Chloride Reduction	Non-Structural Management Practices	Landowner Fund	Cass County Highway Dept match	\$9,500.00	\$8,101.37	\$1,398.63	Y
Shoreline Stabilization	Streambank or Shoreline Protection	Landowner Fund	Landowner Match	\$22,500.00	\$30,710.36	(\$8,210.36)	Y

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
MinnFARM	Phosphorus Feedlot (Est. Reduction)	8	Lbs/Yr
Water Pollution (Reduction Estimates)	Chloride	2	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	3	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	2	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	2	Lbs/Yr
Water Pollution (Reduction Estimates)	Nitrogen	8	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	1250	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	15.8	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	2.27	Tons/Yr
Pollution Prevention	Prevention	536.25	Count
Water Pollution (Reduction Estimates)	Nitrogen	5.32	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	1.05	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.3988	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	9.25	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	10.86	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	10.86	Tons/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	516	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.504	Tons/Yr
MinnFARM	BOD 5	65	Lbs/Yr
MinnFARM	COD	292	Lbs/Yr
MinnFARM	Nitrogen	16	Lbs/Yr
MinnFARM	Phosphorus Feedlot (Est. Reduction)	6	Lbs/Yr

## Grant Activities

<b>Activity Name: Chloride Reduction</b>						
<b>Activity Category:</b> Non-Structural Management Practices					<b>Staff time?:</b> Yes	
<b>Description:</b> Retrofitting of county salting trucks to brining systems, Hubbard county will be allocated \$15,000 for this activity. \$77,000 for new brining equipment in Cass County to help with chloride reduction on county roads, and those that are able to purchase brine from Cass County.						
<b>Budget Details</b>						
<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	Leech Lake River Implementation Phase 2	\$92,000.00	\$72,912.34	\$19,087.66	11/12/2024	N
Landowner Fund	Cass County Highway Dept match	\$9,500.00	\$8,101.37	\$1,398.63	11/12/2024	Y
<b>Actual Results</b>						
<u>Results</u>						<u>Date Added</u>
						6/16/2022 11:00:55 AM

**Results**

**Date Added**

Hubbard SWCD working with Hubbard County Highway Dept to determine equipment needed to retrofit a salting truck for brining.

1/30/2024 9:04:28 AM

**Final Indicators**

<b><u>Indicator</u></b>	<b><u>Total Value</u></b>	<b><u>Unit</u></b>
Prevention	536.25	Count

Activity Action Name: CS446-24	Activity Count: 0
Practice Type: 504M - Chloride - Equipment Upgrades	Size/Units:
TA Provider/JAA:	Lifespan: 10 Years
Practice Description: Brine making equipment for Cass County	Install Date:
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Prevention	Count	536.25	Other	Cass County

**Activity Name: Culvert Replacement-Big Deep lake Outlet**

**Activity Category:** Streambank or Shoreline Protection

**Staff time?:** No

**Description:** Installation of new culvert and storm water catchment basins for sediment control. Engineering for culvert design has been completed by Moore Engineering as per MN. DNR Final inspection will be done by MN. DNR. Project completion is scheduled for Fall 2022. Pollution Reduction estimates show project will remove 2-3 tons per rain event.

**Actual Results**

**Results**

**Date Added**

6/16/2022 11:02:44 AM

## Activity Name: Forestry Practices

**Activity Category:** Forestry Practices

**Staff time?:** No

**Description:** Cost sharing with private landowners, within the identified priority watersheds, for the writing of private forest management plans. Goal is 2,500 acres and have 50% of landowners enroll in a long term protection program such SFIA or a Conservation easement. Plan Writing will be done by Mn. DNR approved plan writers.

### 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	Leech Lake River Implementation Phase 2	\$23,811.03	\$19,490.78	\$4,320.25	12/30/2024	N
Landowner Fund	Landowner Match	\$8,899.00	\$9,148.19	(\$249.19)	08/26/2024	Y

### Actual Results

<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:02:12 AM
Working with private foresters for forest stewardship plans for forest protection in watershed.	1/30/2024 9:05:34 AM

Activity Action Name:	CS366-23 Eric Nelson	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 44 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	44 acre PFM	Install Date: 04/12/0003
		Mapped: Yes

Activity Action Name:	cs368-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 40 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 04/12/2024
		Mapped: Yes

Activity Action Name:	19.20.02000 Hubbard	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 70 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 04/12/2023
		Mapped: Yes

Activity Action Name:	12.04.02200	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 200 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 03/03/2023
		Mapped: Yes

Activity Action Name:	09.04.0080	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 121 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 07/03/2024
		Mapped: Yes

Activity Action Name:	09.20.00410	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 100 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 08/26/2024
		Mapped: Yes

Activity Action Name:	CS404-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 131 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 03/12/2024
		Mapped: Yes

Activity Action Name:	12.23.00100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 162 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	MN DNR PFM	Install Date: 04/16/2024
		Mapped: Yes

Activity Action Name:	12.15.00310	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 80 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	80 acre pfm	Install Date: 12/30/2023
		Mapped: Yes

Activity Action Name:	CS459-24	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 205.5 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	205.5 Acre PFM	Install Date: 06/18/2024
		Mapped: Yes

Activity Action Name:	CS414-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 56 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Forest Stewardship plan	Install Date: 10/05/2023
		Mapped: Yes

Activity Action Name:	CS395-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 90 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/20/2023
		Mapped: Yes

Activity Action Name:	Hubbard 12.23.00100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 92 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	92 acre PFM	Install Date: 03/06/2024
		Mapped: Yes

Activity Action Name:	Hubbard 07.33.00100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 80 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	80 acre pfm on Necktie River	Install Date: 03/28/2024
		Mapped: Yes

Activity Action Name:	Hubbard 11.25.00300, 11.24.00100, 11.25.00150	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 263 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	263-acre PFM plan	Install Date: 01/27/2024
		Mapped: Yes

Activity Action Name:	Hubbard 280900200	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 79 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	79 acre Forest Stewardship Plan	Install Date: 10/19/2023
		Mapped: Yes

Activity Action Name:	Hubbard 013500700	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 129 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	129 acre Forest Stewardship Plan	Install Date: 10/16/2023
		Mapped: Yes

Activity Action Name:	Hubbard PID 24.02.01100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 40 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/08/2023
		Mapped: Yes

Activity Action Name:	Hubbard 28.04.01500, 28.04.01600, 28.04.01600, 28.04.01700, 28.09.00100	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 167 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/24/2023
		Mapped: Yes

Activity Action Name:	John Ringle PFM	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 38 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/21/2023
		Mapped: Yes

Activity Action Name:	Tianna	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 24 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/10/2023
		Mapped: Yes

Activity Action Name:	CS376-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 74.5 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 04/01/2023
		Mapped: Yes

Activity Action Name:	CS380-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 244 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 05/27/2023
		Mapped: Yes

Activity Action Name:	CS390-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 51 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM	Install Date: 06/08/2023
		Mapped: Yes

Activity Action Name:	CS401-23	Activity Count: 1
Practice Type:	147M - Forestry Management	Size/Units: 39 - Acres
TA Provider/JAA:	SWCD	Lifespan: 10 Years
Practice Description:	PFM plan	Install Date: 07/31/2023
		Mapped: Yes

Activity Action Name:	CS364-22	Activity Count:	1
Practice Type:	147M - Forestry Management	Size/Units:	160 - Acres
TA Provider/JAA:	SWCD	Lifespan:	10 Years
Practice Description:	PFM	Install Date:	12/22/2022
		Mapped:	Yes

Activity Action Name:	PFM - Haus	Activity Count:	1
Practice Type:	147M - Forestry Management	Size/Units:	40 - Acres
TA Provider/JAA:	Private Consultant	Lifespan:	
Practice Description:	40 acre forest stewardship plan	Install Date:	10/27/2023
		Mapped:	Yes

<b>Activity Name: Grant Administration</b>						
<b>Activity Category:</b> Administration/Coordination					<b>Staff time?:</b> Yes	
<b>Description:</b> Complete required reporting, pay contractors, pay bills, track hours and expenses, organize policy committee and advisory committee meetings. Billing Rates will be \$35.55 per hour.						
<b>Budget Details</b>						
<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	Leech Lake River Implementation Phase 2	\$13,000.00	\$10,199.76	\$2,800.24	01/07/2025	N
<b>Actual Results</b>						
<u>Results</u>						<u>Date Added</u>
						6/16/2022 10:45:57 AM
2024 - budget tracking, hosted policy meetings, coordinate initiation of watershed midpoint review.						1/9/2025 10:55:57 AM

## Activity Name: Local Match for Projects

**Activity Category:** Urban Stormwater Management Practices

**Staff time?:** No

**Description:** Match For City of Walker Stormwater on Cleveland

### 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>
Local Fund	City of Walker Funds	\$20,000.00	\$179,117.00	(\$159,117.00)	11/08/2024	Y

### Actual Results

<u>Results</u>	<u>Date Added</u>
	7/26/2022 7:52:32 AM

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	2.27	Tons/Yr
Phosphorus (Est. Reduction)	15.8	Lbs/Yr

Activity Action Name:	Federal Dam stormwater treatmetn	Activity Count: 1
Practice Type:	811M - Filtration Practices	Size/Units: 190 - Linear Feet
TA Provider/JAA:	Private Consultant	Lifespan: 30 Years
Practice Description:	Regenerative swale with soil mix filtraion	Install Date: 07/31/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.46	P8 Urban Catchment Model	Leech River
Phosphorus (Est. Reduction)	Lbs/Yr	5.6	P8 Urban Catchment Model	5.6

Activity Action Name:	Federal Dam Stormwater treatment area 2	Activity Count: 1
Practice Type:	803M - Infiltration Practices	Size/Units: 320 - Linear Feet
TA Provider/JAA:	Private Consultant	Lifespan: 30 Years
Practice Description:	Bioretention infiltration	Install Date: 07/31/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	10.2	P8 Urban Catchment Model	Leech River
Sediment (Tss)	Tons/Yr	0.81	P8 Urban Catchment Model	Leech River

## Activity Name: Pasture Management

**Activity Category:** Agricultural Practices

**Staff time?:** No

**Description:** Cost sharing with private landowners within identified priority watersheds, to implement NRCS approved practices that have water quality benefits. Practices will be approved by the NRCS or JAA approved plan writer.

### 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	Leech Lake River Implementation Phase 2	\$0.00	\$0.00	\$0.00	12/30/2024	N
Landowner Fund	Landowner Match	\$0.00		\$0.00		Y

Actual Results	
<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:03:37 AM
Working with landowner for agricultural BMP in priority subwatershed. No projects completed at this time.	1/30/2024 9:06:23 AM

## 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, sign cost and outreach materials for shoreline stewardship program, meetings, phone calls, and correspondence with partners. 1300 hours @ \$50.00/hr for Hubbard County, and \$45,000 for Cass SWCD staffing. All funds are a reimbursable and must have a invoice detailing where hours were utilized.

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	Leech Lake River Implementation Phase 2	\$144,897.00	\$116,453.01	\$28,443.99	02/20/2025	N

Actual Results	
<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:06:52 AM
Federal Dam's stormwater project development and construction oversight. Projects completed July 2024	8/5/2024 11:50:22 AM
Shoreline Pollinator Workshop - targeted priority lake association residents. Hosted in Hackensack, provided shoreline seed packets, planting opportunities, handouts, and more.	5/5/2024 12:00:00 AM
Cass SWCD outreach includes 37 shoreline and easement site visits, Lake Association meetings with Ponto (55 attendees), Birch (12 attendees), Big Deep (23 attendees), Pleasant (48 attendees), and Child/Girl/Woman Lake Associations (60 attendees). Other outreach includes attending board meeting with priority lake associations and meeting with City of Hackensack's PINES group.	8/5/2024 11:42:42 AM
Hubbard outreach includes Kabekona Lake Association (74 attendees), Garfiled Lake Associatoin (53 attendees), Steamboat Lake Association (23 attendees), Laporte Days (groundwater outreach around 130 people reached and 83 water samples screened). Follow-up from lake	8/5/2024 11:39:57 AM

**Results**

**Date Added**

association meetings were site visit days for members interested in Shoreline Restoration.

2024 Cass SWCD:

1/9/2025 10:48:19 AM

\*Conducted seven educational presentations for lake associations focusing on best practices for shoreline behaviors.

\*Completed 54 technical shoreline site visits, assessing properties and providing actionable plans to maintain and improve water quality in the watershed.

\*Hosted a native pollinator event that focused on using native plants to stabilize shorelines. The event held in Hackensack, Minnesota, on the shore of Birch Lake, had over 65 attendees.

\*Hosted a Woodlands for Wildlife Event that was attended by representatives from watersheds across Cass County, this event provided educational presentations by experts from MN DNR, the Ruffed Grouse Society, and various forestry organizations. Topics included improving private woodland health, increasing timber productivity, and enhancing wildlife habitat.

\*Emphasized the importance of keeping Minnesota's private forests intact in both the Leech Lake and Pine River watersheds using the Sustainable Forest Incentive Act (SFIA) as a tool to help offset the cost of land ownership.

Presented programs and did targeted outreach on the SFIA and RIM conservation easement programs. Both programs offer financial incentives to maintain forested parcels in their natural state, benefiting conservation and land affordability.

\*Performed Construction observation for installation of two stormwater projects located in Federal Dam and Longville.

Hubbard Q3 and Q4 - 2025

1/28/2025 10:35:14 AM

Lake Protection Program:

Had several meetings with partners to develop the "Shoreline Protection Program"

PFM Forestry:

PFM Outreach to approximately 85 High Priority Parcels (High RAQ Score In Priority Watersheds)

Resulted in one completed PFM Plan for 77 Acres.

Pulled additional landowner list for an upcoming less strict mailer. (Mailing to be sent out in early 2025)

Easements:

Multiple Easements Completed or in Progress in the LLR Watershed.

**Results**

**Date Added**

Easement 11-01-21-21 26.6 Acres on Leech Lake  
Easement 29-02-22-21 33.6 Acres on Lake Garfield

**Shoreline:**

Developed 1 Project on Steamboat Lake slated for early install in 2025  
Kabekona Lake Association 74 People  
Pulled Priority Shoreline Parcel list and prepped for mailing to go out in spring of 2025.

**Necktie River Restoration:**

Development Work on EPA 319 NKE for the Necktie River Watershed. NKE has been approved and we are awaiting review of the workplan.  
Expecting additional Federal Funds this year and ability to truly start in earnest on the Necktie project development in 2025.  
Various meetings with MPCA, EPA, and Engineering staff to accomplish this and start planning for implementing projects for these matching funds.

**Activity Name: Roof Run-off management for erosion control**

**Activity Category:** Livestock Waste Management

**Staff time?:** No

**Description:** 558- roof runoff management in priority areas

**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	Leech Lake River Implementation Phase 2	\$17,752.04	\$17,752.04	\$0.00	11/12/2024	N
Landowner Fund		\$4,438.00	\$5,917.34	(\$1,479.34)	11/25/2024	Y

Final Indicators		
<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus Feedlot (Est. Reduction)	6	Lbs/Yr
Nitrogen	16	Lbs/Yr
BOD 5	65	Lbs/Yr
COD	292	Lbs/Yr

Activity Action Name: Roof Run-off project	Activity Count: 1
Practice Type: 558 - Roof Runoff Management	Size/Units: 1 - Count
TA Provider/JAA: SWCD	Lifespan: 10 Years
Practice Description:	Install Date: 10/30/2024
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus Feedlot (Est. Reduction)	Lbs/Yr	6	MinnFARM	Boxell
COD	Lbs/Yr	292	MinnFARM	Boxell
BOD 5	Lbs/Yr	65	MinnFARM	Boxell
Nitrogen	Lbs/Yr	16	MinnFARM	Boxell

Activity Name: Shoreline Stabilization	
Activity Category: Streambank or Shoreline Protection	Staff time?: No
<b>Description:</b> Cost Sharing with 7 private landowners, within priority watersheds on Shoreline stabilization projects that benefit water quality. Plans and installation will be done by private ecological services companies. JAA will be done by Cass SWCD 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>
Landowner Fund	Landowner Match	\$22,500.00	\$30,710.36	(\$8,210.36)	11/20/2024	Y
Current State Grant	Leech Lake River Implementation Phase 2	\$70,000.00	\$42,723.31	\$27,276.69	11/20/2024	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:08:14 AM
One shoreline project completed in 2023. Three projects already planned for 2024.	1/30/2024 9:07:35 AM
Three shoreline restoration projects were completed in 2024 for a total of 546 feet of shoreline. An additional six projects have been encumbered for completion in 2025.	2/12/2025 12:02:56 PM

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Soil (Est. Savings)	10.86	Tons/Yr
Sediment (Tss)	10.86	Tons/Yr
Phosphorus (Est. Reduction)	9.25	Lbs/Yr

Activity Action Name:	CS421-23 Shoreline buffer	Activity Count: 1
Practice Type:	327 - Conservation Cover	Size/Units: 0.08 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	145 foot shoreline restoration	Install Date: 07/05/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Soil (Est. Savings)	Tons/Yr	0.78	Bwsr Calc (Stream & Ditch Stabilization)	Wabedo
Phosphorus (Est. Reduction)	Lbs/Yr	0.67	Bwsr Calc (Stream & Ditch Stabilization)	Wabedo
Sediment (Tss)	Tons/Yr	0.78	Bwsr Calc (Stream & Ditch Stabilization)	Wabedo

Activity Action Name:	CS429-23	Activity Count: 1
Practice Type:	342 - Critical Area Planting	Size/Units: 0.05 - Acres
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Shoreline restoration 100 feet	Install Date: 08/05/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	1.1	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile
Phosphorus (Est. Reduction)	Lbs/Yr	0.94	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile
Soil (Est. Savings)	Tons/Yr	1.1	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile

Activity Action Name:	221109LLRLGR	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 195 - Linear Feet
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	195 feet shoreline restoration on Garfield Lake	Install Date: 07/14/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	7.38	Bwsr Calc (Stream & Ditch Stabilization)	Garfield
Soil (Est. Savings)	Tons/Yr	7.38	Bwsr Calc (Stream & Ditch Stabilization)	Garfield
Phosphorus (Est. Reduction)	Lbs/Yr	6.28	Bwsr Calc (Stream & Ditch Stabilization)	Garfield

Activity Action Name: CS428-23	Activity Count: 1
Practice Type: 327 - Conservation Cover	Size/Units: 0.045 - Acres
TA Provider/JAA: Private Consultant	Lifespan: 10 Years
Practice Description: Shoreline restoration 200 feet	Install Date: 09/12/2024
	Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1.36	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile
Soil (Est. Savings)	Tons/Yr	1.6	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile
Sediment (Tss)	Tons/Yr	1.6	Bwsr Calc (Stream & Ditch Stabilization)	Ten Mile

## Activity Name: Stony Creek Culvert Replacement

**Activity Category:** Streambank or Shoreline Protection **Staff time?:** No

**Description:** Replacement of Existing Culvert and roadway BMP's on Stony Creek. Installation of new culvert and storm water catchment basins for sediment control. Engineering for culvert design has been completed by Moore Engineering as per MN. DNR Final inspection will be done by MN. DNR. Project completion is scheduled for Winter 2023. Pollution Reduction estimates show project will remove 2-3 tons per rain event.

### 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	2021 - SWCD Local Capacity Services (Cass SWCD)	\$8,088.50	\$8,088.50	\$0.00	01/01/2023	N
Current State Grant	Leech Lake River Implementation Phase 2	\$148,972.93	\$148,972.93	\$0.00	08/08/2023	N
Local Fund	Lake Association	\$1,000.00	\$1,000.00	\$0.00	05/05/2023	Y
Local Fund	Wabedo Township	\$8,000.00	\$8,000.00	\$0.00	09/27/2023	Y

### Actual Results

<u>Results</u>	<u>Date Added</u>
	2/14/2023 2:58:00 PM
Completion of the Stony Creek culvert project in 2023.	1/30/2024 9:46:56 AM

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Sediment (Tss)	0.504	Tons/Yr
Phosphorus (Est. Reduction)	516	Lbs/Yr

Activity Action Name:	CS351-22	Activity Count: 1
Practice Type:	580 - Streambank and Shoreline Protection	Size/Units: 85 - Linear Feet
TA Provider/JAA:	Private Consultant	Lifespan: 25 Years
Practice Description:	two Culvert Replacement, ditch checks	Install Date: 04/15/2023
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.504	P8 Urban Catchment Model	Wabedo
Phosphorus (Est. Reduction)	Lbs/Yr	516	P8 Urban Catchment Model	Wabedo

## Activity Name: Stormwater-City of Walker

**Activity Category:** Urban Stormwater Management Practices

**Staff time?:** No

**Description:** Cost Sharing with the City of Walker for the installation of a storm water defender on Cleveland Blvd near Cochran's Marina.

### 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	Leech Lake River Implementation Phase 2	\$80,000.00	\$80,000.00	\$0.00	06/13/2024	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:07:29 AM
Project is nearing completion.	1/30/2024 9:08:35 AM

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Nitrogen	5.32	Lbs/Yr
Sediment (Tss)	0.3988	Tons/Yr
Phosphorus (Est. Reduction)	1.05	Lbs/Yr

Activity Action Name:	Northwest Project Area	Activity Count: 9
Practice Type:	155M - Storm Water Retention Basins	Size/Units: 9 - Linear Feet
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Stormwater retention basins at Tianna, Lakeside, Railroad, Cleveland, Front, Alley NW, 8th, and 9th streets	Install Date: 06/12/2024
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	1.05	Other	Leech
Sediment (Tss)	Tons/Yr	0.3988	Other	Leech
Nitrogen	Lbs/Yr	5.32	Other	Leech

## Activity Name: Technical Services

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** No

**Description:** Funds will be used to design, survey, for the Lake May Creek and Necktie River projects. HR Green will be the engineering firm doing this work along with assistance from the MN. DNR as needed. Costs for lake May Creek is \$51,594 and Necktie River is \$47,000. This work is the technical work needed to complete two channel restoration projects in the future.

### 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	Leech Lake River Implementation Phase 2	\$84,682.00	\$84,177.45	\$504.55	11/12/2024	N

### Actual Results

<u>Results</u>	<u>Date Added</u>
	6/16/2022 11:00:33 AM
AECOM engineering completed 30% plan sets for Lake May Creek and Necktie River Restoration. Plan sets for Lake May Creek have already been shared and discussed with the City of Walker for future work on city owned roadway at the Lake May outlet, and MN DOT for Hwy 34 and 371 roadways with culverts in Lake May Creek.	1/30/2024 9:47:44 AM



# Grant Work Plan

## Watershed Based Implementation 2024

**Grant Title:** Leech Lake River Implementation Phase 3

**Grant ID:** C24-0199

**Grantee:** Cass SWCD

**Fiscal Agent:** Cass SWCD

**Grant Day-to-Day Contact:** Dana Gutzmann

**Grant Award (\$):** \$598,665.00

**Required Match (%):** 10

**Required Match (\$):** \$59,866.50

**Grant Execution Date:** 06/13/2024

**Grant End Date:** 12/31/2026

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$598,665.00	<b>\$4,204.38</b>	\$594,460.62
Match Funds	\$60,250.00	<b>\$170,702.91</b>	(\$110,452.91)
Other Funds	\$0.00	<b>\$0.00</b>	\$0.00
<b>Total</b>	<b>\$658,915.00</b>	<b>\$174,907.29</b>	<b>\$484,007.71</b>

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

<b>Project Abstract</b>	We will host a Level 1 Smart Salt Training for chloride reduction throughout the watershed, it will be offered to tribes, counties, cities, townships, and contractors. Make 2,000 acres eligible for long-term protection and cost share on 2 forestry practices. We will seal 6 wells. Cost share on installation of 8 shoreline buffer practices for 800 feet of shoreline restoration and install eight agricultural BMPs. Cost share with up to two cities for stormwater upgrades or implementations. Implement a portion of the Lake May Creek restoration. Provide preliminary engineering and design for the Necktie River restoration project.
<b>Proposed Measurable Outcomes</b>	<ol style="list-style-type: none"><li>1. 2,000 additional acres of Forest Stewardship Plans</li><li>2. Seal 6 wells.</li><li>3. Removal of 25 tons of sediment.</li><li>4. Removal of 30 pounds of phosphorus</li><li>5. Removal of 100 pounds of nitrogen.</li></ol>

## Budget Details

<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>
Grant Administration	Administration/Coordination	Current State Grant	Leech Lake River Implementation Phase 3	\$6,000.00		\$6,000.00	N
Agricultural BMPs	Agricultural Practices	Current State Grant	Leech Lake River Implementation Phase 3	\$78,000.00		\$78,000.00	N
Smart Salt Training	Education/Information	Current State Grant	Leech Lake River Implementation Phase 3	\$4,000.00		\$4,000.00	N
Forestry Practices	Forestry Practices	Current State Grant	Leech Lake River Implementation Phase 3	\$45,000.00		\$45,000.00	N
Well Sealing	Groundwater	Current State Grant	Leech Lake River Implementation Phase 3	\$3,000.00		\$3,000.00	N
Project Development	Project Development	Current State Grant	Leech Lake River Implementation Phase 3	\$35,000.00		\$35,000.00	N
Shoreline Management	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 3	\$78,000.00		\$78,000.00	N
Lake May Creek Restoration	Streambank or Shoreline Protection	Current State Grant	Leech Lake River Implementation Phase 3	\$50,000.00		\$50,000.00	N
Technical Assistance	Technical/Engineering Assistance	Current State Grant	Leech Lake River Implementation Phase 3	\$145,000.00	\$4,204.38	\$140,795.62	N
Engineering	Technical/Engineering Assistance	Current State Grant	Leech Lake River Implementation Phase 3	\$50,000.00		\$50,000.00	N
Necktie River Restoration	Technical/Engineering Assistance	Current State Grant	Leech Lake River Implementation Phase 3	\$64,665.00		\$64,665.00	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>
Stormwater	Urban Stormwater Management Practices	Current State Grant	Leech Lake River Implementation Phase 3	\$40,000.00		\$40,000.00	N
Agricultural BMPs	Agricultural Practices	Landowner Fund		\$19,500.00		\$19,500.00	Y
Forestry Practices	Forestry Practices	Landowner Fund		\$11,250.00		\$11,250.00	Y
Well Sealing	Groundwater	Landowner Fund		\$0.00		\$0.00	Y
Shoreline Management	Streambank or Shoreline Protection	Landowner Fund		\$19,500.00		\$19,500.00	Y
Lake May Creek Restoration	Streambank or Shoreline Protection	Landowner Fund		\$0.00		\$0.00	Y
Stormwater	Urban Stormwater Management Practices	Landowner Fund		\$10,000.00	\$170,702.91	(\$160,702.91)	Y

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Sediment (Tss)	1.59	Tons/Yr
Water Pollution (Reduction Estimates)	Nitrogen	150	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	7.8	Lbs/Yr
Water Pollution	Phosphorus (Est. Reduction)	8	Lbs/Yr

<i>Indicator Category</i>	<i>Final Indicator</i>	<i>Total Value</i>	<i>Unit</i>
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	8	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.585	Tons/Yr

<i>Indicator Category</i>	<i>Proposed Indicator</i>	<i>Total Value</i>	<i>Unit</i>
(Reduction Estimates)			
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	4	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	14	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	15	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	8	Tons/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	8	Tons/Yr

**Grant Activities**

**Activity Name: Agricultural BMPs**

**Activity Category:** Agricultural Practices **Staff time?:** No

**Description:** Cost sharing with landowners and occupiers on agricultural activities that benefit water quality as identified in priority sub watersheds and Table 6-1 in the Leech Lake River Comprehensive Watershed Management Plan. Activity lifespan varies with practices from 1-10 years.

**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	Leech Lake River Implementation Phase 3	\$78,000.00		\$78,000.00		N
Landowner Fund		\$19,500.00		\$19,500.00		Y

## Activity Name: Engineering

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** No

**Description:** Engineering and technical services as needed for project planning, design, and construction observation and inspection for areas identified in table 6-1 and table 6-4 of the Leech Lake River Comprehensive Watershed Management Plan.

### 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	Leech Lake River Implementation Phase 3	\$50,000.00		\$50,000.00		N

## Activity Name: Forestry Practices

**Activity Category:** Forestry Practices

**Staff time?:** No

**Description:** Cost sharing with private landowners for the writing of private forest management plans and implementing forestry practices that improve water quality for areas identified on pages 25, and 26 as well as table 6-1 of the Leech Lake River Comprehensive Watershed Management Plan.

### 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	Leech Lake River Implementation Phase 3	\$45,000.00		\$45,000.00		N
Landowner Fund		\$11,250.00		\$11,250.00		Y

## 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, steering 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	Leech Lake River Implementation Phase 3	\$6,000.00		\$6,000.00		N

## Activity Name: Lake May Creek Restoration

**Activity Category:** Streambank or Shoreline Protection

**Staff time?:** No

**Description:** Implement practices to continue with Lake May Creek Restoration for water quality benefits as identified in pages 16, 33, 39, 43, 76 and Table 6-1

### 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	Leech Lake River Implementation Phase 3	\$50,000.00		\$50,000.00		N
Landowner Fund		\$0.00		\$0.00		Y

## Activity Name: Necktie River Restoration

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** No

**Description:** Engineering to complete plan sets for Necktie River Restoration plans as identified in pages 50, 54, 58, 68, 74, 117 and table 6-1 .

### 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	Leech Lake River Implementation Phase 3	\$64,665.00		\$64,665.00		N

## Activity Name: Project Development

**Activity Category:** Project Development **Staff time?:** Yes

**Description:** Staff time to help develop and implement grant objectives to include: planning, outreach, education, work shops, developing relationships with landowners, correspondence with partners as identified in tables 6-1, 6-2, 6-3, 6-4

### 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	Leech Lake River Implementation Phase 3	\$35,000.00		\$35,000.00		N

## Activity Name: Shoreline Management

**Activity Category:** Streambank or Shoreline Protection **Staff time?:** No

**Description:** Cost sharing with private landowners for shoreline stabilization and buffer projects that benefit water quality as identified in pages 38, 39, 43, 44, 50, 51, 65, 80, 89, and 92 as well as table 6-1.

### 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	Leech Lake River Implementation Phase 3	\$78,000.00		\$78,000.00		N
Landowner Fund		\$19,500.00		\$19,500.00		Y

## Activity Name: Smart Salt Training

**Activity Category:** Education/Information

**Staff time?:** No

**Description:** Level 1 Smart Salt Training for road authorities and independent contractors within the watershed as identified on page 34 and table 6-3 of the Leech Lake River Comprehensive Watershed Management Plan.

### 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	Leech Lake River Implementation Phase 3	\$4,000.00		\$4,000.00		N

## Activity Name: Stormwater

**Activity Category:** Urban Stormwater Management Practices

**Staff time?:** No

**Description:** Stormwater implementation or upgrades to improve water quality in priority sub watersheds and as identified in Table 6-1, and Table 6-4 of the Leech Lake River Comprehensive Watershed Management 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	Leech Lake River Implementation Phase 3	\$40,000.00		\$40,000.00		N
Landowner Fund		\$10,000.00	\$170,702.91	(\$160,702.91)	12/20/2024	Y

### Final Indicators

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	8	Lbs/Yr
Sediment (Tss)	0.585	Tons/Yr

Activity Action Name: Longville Stormwater BMPs				Activity Count: 1
Practice Type: 811M - Filtration Practices				Size/Units: 1 - Count
TA Provider/JAA: Private Consultant				Lifespan: 15 Years
Practice Description: Iron Enhanced Sand Filter installation in Longville				Install Date: 10/28/2024
				Mapped: Yes
Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	0.585	P8 Urban Catchment Model	Boy River
Phosphorus (Est. Reduction)	Lbs/Yr	8	P8 Urban Catchment Model	Boy River

<b>Activity Name: Technical Assistance</b>						
<b>Activity Category:</b> Technical/Engineering Assistance					<b>Staff time?:</b> Yes	
<b>Description:</b> Staff time for technical assistance to property owners within the watershed to plan, design, and inspect practices that improve water quality as identified in tables 6-1, 6-2 and 6-4 in the Leech Lake River Comprehensive Watershed Management Plan.						
<b>Budget Details</b>						
<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	Leech Lake River Implementation Phase 3	\$145,000.00	\$4,204.38	\$140,795.62	01/07/2025	N
<b>Actual Results</b>						
<u>Results</u>	<u>Date Added</u>					
Technical development of Birch Lake Stewardship program for protection goals, technical designs for shoreland projects, and technical review and ranking of shoreline projects.	1/9/2025 11:05:24 AM					

## Activity Name: Well Sealing

Activity Category: Groundwater

Staff time?: No

**Description:** Well sealing for ground water quality as identified in pages 65 and 116, as well as table 6-1 in the Leech Lake River Comprehensive Watershed Management Plan.

### 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		\$0.00		\$0.00		Y
Current State Grant	Leech Lake River Implementation Phase 3	\$3,000.00		\$3,000.00		N