



## Grant All-Detail Report

### Watershed Based Implementation Phase II 2020

**Grant Title** - 2020 - Lake of the Woods Watershed 1W1P

**Grant ID** - C20-9994

**Organization** - Lake of the Woods Watershed Joint Powers Board

<b>Original Awarded Amount</b>	<b>\$621,173.00</b>	<b>Grant Execution Date</b>	<b>5/7/2020</b>
<b>Required Match Amount</b>	\$62,117.30	<b>Original Grant End Date</b>	12/31/2022
<b>Required Match %</b>	10%	<b>Grant Day To Day Contact</b>	Corryn Trask
<b>Current Awarded Amount</b>	\$621,173.00	<b>Current End Date</b>	12/31/2022

#### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$621,173.00	\$621,173.00	\$0.00
Total Match Amount	\$65,000.00	\$65,000.00	\$0.00
Total Other Funds	\$30,652.40	\$18,652.40	\$12,000.00
<b>Total</b>	<b>\$716,825.40</b>	<b>\$704,825.40</b>	<b>\$12,000.00</b>

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

#### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Cost Share - Forest Stewardship Management Plans	Planning and Assessment	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$2,380.00	\$2,380.00	10/31/2021	N
Education Initiatives	Education/Information	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$20,594.04	\$20,594.04	6/30/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Engineering and Technical Assistance	Technical/Engineering Assistance	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$201,750.70	\$198,183.44	11/1/2022	N
Joint Powers Board - Administration	Administration/Coordination	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$62,976.00	\$62,976.00	9/30/2022	N
LW Co Ditch 1	Streambank or Shoreline Protection	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$209,347.60	\$209,347.60	10/31/2022	N
LW Co Ditch 1	Streambank or Shoreline Protection	Other Funds	FY2022 Lake of the Woods WBIF	\$30,652.40	\$18,652.40	11/1/2022	N
Project Development	Project Development	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$22,634.64	\$20,595.24	9/30/2022	N
SSTS Cost Share	Subsurface Sewage Treatment Systems	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$13,351.73	\$13,351.73	11/1/2021	N
Special projects - Keep it Clean	Special Projects	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$2,605.96	\$2,605.96	6/30/2021	N
Streambank and Shoreland Projects	Streambank or Shoreline Protection	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$60,532.33	\$66,138.99	10/31/2021	N
WBIF Match Sources	Administration/Coordination	Local Fund	various local match	\$65,000.00	\$65,000.00	10/31/2022	Y
Well location for MN Geologic Atlas	Inventory/Mapping	Current State Grant	2020 - Lake of the Woods Watershed 1W1P	\$25,000.00	\$25,000.00	9/30/2022	N

## Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
580 - Streambank and Shoreline Protection	1	1	50 LINEAR FEET	50 LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	1 COUNT	1 COUNT
580 - Streambank and Shoreline Protection	1	1	120 LINEAR FEET	LINEAR FEET
126M - Septic System Improvement	1		1 COUNT	1 COUNT
580 - Streambank and Shoreline Protection	1	1	250 LINEAR FEET	LINEAR FEET
580 - Streambank and Shoreline Protection	1	1	46 LINEAR FEET	LINEAR FEET

## Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Streambank and Shoreland Projects</b>	PHOSPHORUS (EST. REDUCTION)	13.6 LBS/YR	Lake of the Woods	BWSR CALC (STREAM & DITCH STABILIZATION)	Silt, 400 ft long x 4 ft high x 2 ft deep over 10 years
<b>Streambank and Shoreland Projects</b>	PHOSPHORUS (EST. REDUCTION)	9 LBS/YR	Warroad	Other	From 1W1P plan 4-45 and stated PTMApp value
<b>Cost Share - Non-structural management practices</b>	PHOSPHORUS (EST. REDUCTION)	21.6 LBS/YR	Zippel	Other	PTMApp. 2 year event on sample 51 acre field, used multiplier of 4
<b>Cost Share - Ag practices</b>	PHOSPHORUS (EST. REDUCTION)	17 LBS/YR	Zpl, Warroad, Bostic, Muskeg	BWSR CALC (GULLY STABILIZATION)	5 gullies, silt soil, 1 year, .5 feet deep x 80 feet long x 2 feet wide
<b>Cost Share - Non-structural management practices</b>	NITROGEN	43.39 LBS/YR	Zippel	Other	PTMApp. 2 year event on sample 51 acre field, used multiplier of 4
<b>Streambank and Shoreland Projects</b>	SOIL (EST. SAVINGS)	13.6 TONS/YR	Lake of the Woods	BWSR CALC (STREAM & DITCH STABILIZATION)	Silt, 400 ft long x 4 ft high x 2 ft deep over 10 years

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Cost Share - Ag practices</b>	SOIL (EST. SAVINGS)	17 TONS/YR	Zpl, Warroad, Bostic, Muskeg	BWSR CALC (GULLY STABILIZATION)	5 gullies, silt soil, 1 year, .5 feet deep x 80 feet long x 2 feet wide
<b>Streambank and Shoreland Projects</b>	SEDIMENT (TSS)	13.6 TONS/YR	Lake of the Woods	BWSR CALC (STREAM & DITCH STABILIZATION)	Silt, 400 ft long x 4 ft high x 2 ft deep over 10 years
<b>Streambank and Shoreland Projects</b>	SEDIMENT (TSS)	15 TONS/YR	Warroad	BWSR CALC (STREAM & DITCH STABILIZATION)	From 1W1P plan 4-45 and stated PTMApp value
<b>Cost Share - Non-structural management practices</b>	SEDIMENT (TSS)	48.48 TONS/YR	Zippel	Other	PTMApp. 2 year event on sample 51 acre field, used multiplier of 4
<b>Cost Share - Ag practices</b>	SEDIMENT (TSS)	17 TONS/YR	Zpl, Warroad, Bostic, Muskeg	BWSR CALC (GULLY STABILIZATION)	5 gullies, silt soil, 1 year, .5 feet deep x 80 feet long x 2 feet wide

### Final Indicators Summary

Indicator Name	Total Value	Unit
<b>NITROGEN</b>	20.00	LBS/YR
<b>SEDIMENT (TSS)</b>	156.50	TONS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	347.00	LBS/YR
<b>PATHOGENS (E. COLI)</b>	9,030,000,000,000.00	CFU
<b>SOIL (EST. SAVINGS)</b>	38.50	TONS/YR

## Grant Activity

### Grant Activity - Cost Share - Forest Stewardship Management Plans

<b>Description</b>	<p>Cost share program for private forest management plans within riparian areas in the Bostic, Warroad, Muskeg and Zippel watersheds. The cost share program will supplement EQIP program funding for forest management plans, or will provide standalone funding if EQIP funding is unavailable. Targeted areas will include privately owned forests &gt;20 acres in size currently not enrolled in the Sustainable Forests Incentive Act. The goal will be to provide forest management plans that include actions to protect water quality or sensitive habitat areas, along with providing further guidance on how to enroll in the SFIA easement program. Twenty forest stewardship plans, at 80 acres per plan, or 1600 acres total is the target goal for the 10-year planning period. SWCD staff will work with the Area GIS specialist and BWSR Board Conservationist to develop a targeting strategy for projects based on RAQ scoring or other acceptable targeting tools. This targeting strategy will be approved by the JPB prior to implementing the program.</p>	
<b>Category</b>	PLANNING AND ASSESSMENT	
<b>Start Date</b>		<b>End Date</b>
<b>Has Rates and Hours?</b>	No	
<b>Actual Results</b>	<p>12/31/20 -</p> <ul style="list-style-type: none"> <li>*Implementation Committee has been developing a cost share program policy utilizing input from neighboring SWCDs.</li> <li>*Area 8 GIS specialist has developed the RAQ scoring model to be used for ranking and selecting parcels</li> </ul> <p>12/31/21 -</p> <ul style="list-style-type: none"> <li>*program policy and cost share rates are developed.</li> <li>*Approved one cost share contract for the completion of 337 acre forest management plan.</li> <li>*Conducting promotion of the program through newsletter submission and mass mailing.</li> </ul> <p>No additional action in 2022 under this activity.</p>	



## Description

Implement education initiatives that will accomplish goals outlined in the Lake of the Woods One Watershed One Plan. Education efforts will specifically support projects and practices identified in the 2020-21 implementation funding.

Activities include:

\*Roseau well protection - coordinate efforts for an annual well testing clinic for Warroad and Muskeg planning regions. Target of 50 wells tested per year for year one and year two. A drop off location will be arranged in the planning region and promotions will include newspaper articles and flyers at local businesses. Funding will cover approximately 32 hours of SWCD staff time per year.

\*Roseau Stormwater Practices - provide education efforts as part of the city of Warroad stormwater retrofit plan to encourage adoption of practices such as rain gardens and stormwater practices to target phosphorus and sediment reductions. Education will include promotion of practices to reduce phosphorus to the lake, and encourage adoption of stormwater practices. Information will be disseminated through social media, posters, newspaper articles and other promotional items or events.

\*Lake of the Woods Keep it Clean Program - Keep it Clean is a movement to support sustainable use of Lake of the Woods, especially during the ice fishing season, and encourages recreationists to clean up their trash and use the lake responsibly. This funding will cover costs for 10 banners and other promotional materials for the Keep it Clean Program which will be distributed throughout the LOW Watershed to over 20 businesses. Staff time will be spent on organizing an annual shoreline cleanup covering over 10 miles, 6 or more committee meetings per year, monthly newspaper articles, ads or Facebook posts and acquisition and distribution of promotional materials.





Start Date	End Date
Has Rates and Hours?	Yes
Actual Results	<p>12/31/20 -</p> <ul style="list-style-type: none"> <li>*Water quality brochure done in conjunction with the Warroad Stormwater study will be available at lake public accesses in 2021.</li> <li>*Well Testing Clinic held October 1st (testing was not paid for with Clean Water Funding). 54 analysis (90% return) completed for nitrate, Total Coliform Bacteria, and E.coli. 3 samples tested positive for nitrate, but were below 10 ppm (highest was 5.71 ppm). 6 samples tested positive for TCB, but not E. coli. Drinking water brochures were provided to each well owner.</li> <li>*Four Keep It Clean Meetings held in 2020 (April 28, July 28, September 29, November 24).</li> <li>**SWCD staff supervised and coordinated the MN Conservation Corp Crew in 2020 for a shoreline cleanup. Over 10 miles of shoreline were cleaned. Purchased and distributed Keep It Clean promotional items including tabletop tents and beverage coasters to over 67 resorts and businesses. Submitted grant application for Conservation Corps crew for 2021 shoreline cleanup.</li> </ul> <p>12/31/21 -</p> <ul style="list-style-type: none"> <li>* Held four Keep It Clean Meetings held in 2021 (February 23, May 25, October 26, December 15).</li> <li>* Put up brochure holders at two public water accesses with the Blue-Green Algae Awareness brochure.</li> <li>*Well Testing Clinic held August 12. 44 analysis (88% return) completed for nitrate, Total Coliform Bacteria, and E.coli. No samples tested positive for nitrate. 2 samples tested positive for TCB, but not E. coli. Drinking water brochures about nitrates and bacterial safety were provided to each well owner.</li> <li>*SWCD staff supervised and coordinated the MN Conservation Corp Crew in 2021 for a shoreline cleanup. Over 12 miles of shoreline were cleaned. Purchased and distributed Keep It Clean promotional items including banners, signs, tabletop tents, and beverage coasters to over 67 resorts and businesses. Submitted grant application for Conservation Corps crew for 2022 shoreline cleanup.</li> </ul> <p>As of 6/30/22</p> <ul style="list-style-type: none"> <li>*Keep it Clean: wrap up the winter ice fishing season educational program</li> </ul>





## Description

Utilize services of TSA Engineers, private consultants or local staff with the necessary JAA to complete field investigations, surveys, design and construction inspection for projects conducted through watershed based implementation funding.

Activities include:

\*Lake of the Woods Shoreline Protection Projects - Survey and design for a total of 400 linear feet. Design services will be provided through a private licensed engineering consultant experienced with designing riprap projects on Lake of the Woods.

\*Warroad River Watershed Shoreline Protection Projects - Survey and design of 3 shoreline protection projects on the Warroad River, for a total of 455 linear feet. Design services will be provided through a private licensed engineering consultant currently retained by the Warroad River Watershed District.

\*Funding to contract with engineering consultants to perform survey and design for project sites identified through the City of Warroad Stormwater Retrofit Analysis or the Warroad River Project Alternatives Investigation. These studies will identify locations in 2020 for future practices, but it will be necessary to complete site-specific plans for implementation. The goal will be to complete the survey and design in 2021, and be prepared for installation of practices in 2022. Funding for these projects will be determined by the Joint Powers Board, in consultation with the BWSR BC, based on project readiness and landowner cooperation.



Start Date	End Date
<p>Has Rates and Hours?</p> <p>Actual Results</p>	<p>No</p> <p>12/31/20</p> <p>*LOW SWCD is currently evaluating parcels for eligibility.</p> <p>*Warroad River Watershed District has contracted with Houston Engineering to provide survey and design services for 3 sites identified on the Warroad River. Design is underway. Construction expected in 2021. Three additional sites are being investigated.</p> <p>Accomplishments as of 12/31/21:</p> <ul style="list-style-type: none"> <li>* HEI has completed inspection and certification on 3 shoreline projects in the Warroad watershed (416 total linear feet).</li> <li>* Note: Warroad Watershed Storage Project - Further work by HEI for ground truthing 20 potential sites for ditch plugs is projected to be completed fall 2021. To be approved.</li> <li>* Note: 4 more shoreline projects in the Warroad watershed surveyed and designed by HEI fall 2021. To be approved.</li> <li>*Lake of the Woods Ditch 1 stabilization project - engineering firm selected and developing recommendations and design for one-mile stabilization in Zippel watershed.</li> <li>*Lake of the Woods shoreline cost share: Site visits to 3 shoreline protection projects on Lake of the Woods. Preliminary design development. Construction inspection and certification of one shoreline project.</li> </ul> <p>As of 10/31/22:</p> <p>Peatland investigation - complete field and drone surveys to use for peatland study and further evaluation of HMS models. Continue efforts to evaluate storage sites through multi-agency work groups. Hold project team meetings and present initial findings.</p> <p>Warroad streambank stabilization - HEI engineerign completed designs, permitting, plan revisions and construction inspection for streambank projects identified for implementation.</p> <p>LW Shoreline projects - engineering services, including one installation, for three shoreline protection projects identified for cost share program funding.</p> <p>LW Co Ditch 1 - final plan set completed and submitted for bidding and contractor selection.</p>







## Description

Perform actions essential for the coordination and implementation of the One Watershed One Plan. A Joint Powers Board has been formed to govern and oversee the implementation of the funds. Lake of the Woods SWCD will provide fiscal coordination, and Roseau and Lake of the Woods SWCDs will serve as co-coordinators.

Duties of the Co-coordinator positions: Coordinate and participate in monthly project team meetings and quarterly board meetings for the purpose of administering the plan. Ensure that meetings of the JPE follow Open Meeting Law requirements. Document meetings and create board agendas. Oversee and advise on policy development. Review all requests for payment to ensure they meet BWSR and CWF funding policies. Provide quarterly financial reports and progress towards measurable goals to JPE and BWSR. Complete BWSR reporting requirements for the implementation of the funds. Maintain communication and build relationships with agency partners to further implement and document accomplishment towards goals of the plan. Track and measure progress towards goals and milestones. Total estimated staff time is 360 hours per year.

Duties for fiscal coordination will include: set up accounting system in Quickbooks to track funds, develop a separate financial accounting system to track individual grants and activity balances, review and process all requests for payment on a monthly basis, provide quarterly financial reports to the JPE board, oversee expenditures of grants according to BWSR policy, document match requirements, submit payroll reports and manage insurance and audit requirements. Total estimated hours is 140 per year.

JPE Base Costs: This funding will also cover base costs for the Joint Powers Entity, including but not limited to: annual MCIT insurance, member per diems and mileage, independent audit, meeting space, website, checks and office supplies, payroll expenses. Approximately \$10,000 per year is needed to cover these costs.



Start Date

End Date

Has Rates and Hours?

Yes

## Actual Results

12/31/20

\*Bylaws adopted

\*Quickbooks set up for finance tracking. Further development is needed for grant tracking. Participated in BWSR workshop on reporting requirements.

\*annual independent audit requirements will be met during LOW SWCD annual audit.

\*Implementation committee addressing policy and procedures for implementation programs during committee meetings.

\*11 sub-agreements in place

\*Milestone reporting to JPB in progress

\*eLink mid-term reporting complete for BWSR

\*quarterly JPB meetings scheduled (January, March, June, September). Additional meetings held in 2020 to establish JPB (April 22, May 11 and June 15). COVID-19 delayed the start of the JPB scheduled meeting by one month.

\*monthly implementation committee meetings (April 9, 22, May 20, June 10, July 8, August 11, September 9, October 14 and December 9).

As of 12/31/21 -

\* New agreement in place (Forest Management Plan - Cost Share Program)

\* 2020 eLink reporting completed.

\*quarterly JPB meetings scheduled (January, March, June, September).

\*monthly implementation committee meetings (January 13, February 10, March 3, May 12, June 9, July 14, August 11, September 2, October 14, December 6 ).

\*Advisory Committee Meeting on April 7.

\* Independent audit by Peterson Company LTD.

As of 10/31/22 -

\*Complete annual eLink reporting

\*hold JPB meetings on quarterly basis

\*hold bi-monthly implementation committee meetings

\*maintain and manage budgets

\*Create workplan, financial tracking, and sub-agreements for FY22 grant

\*update FY20 work plan

\*complete quarterly financial reconciliations, banking transactions, updating Quickbooks, insurance, lobby reporting, tax reporting, and other items associated with financial administration

This fund was spent out and administration rolled into FY22 funds.

### Grant Activity - LW Co Ditch 1

<b>Description</b>	The workplan was amended to remove Ditch 10 and add Lake of the Woods County Ditch 1 slope stabilization. Engineering will be completed by contracted firm, with oversight from LW County Public Works Department. The project will utilize both FY20 and FY22 WBIF funds, in addition to state-aid funds. A one-mile stretch of County Ditch 1 will be stabilized. This project will reduce flows within this stretch of drainage system by an estimated 15%, in addition to reducing sediment and phosphorus.		
<b>Category</b>	STREAMBANK OR SHORELINE PROTECTION		
<b>Start Date</b>		<b>End Date</b>	
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	10/31/22 - completion of the Ditch 1 stabilization project in Lake of the Woods county. One mile stretch of ditch was stabilized using a combination of rock checks and resloping. Sidewater inlets were also installed.		

### Activity Action - Lo Co Ditch 1

<b>Practice</b>	580 - Streambank and Shoreline Protection	<b>Count of Activities</b>	1
<b>Description</b>	Grade stabilization, resloping, sidewater inlets, rock checks.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	
<b>Mapped Activities</b>	1 Line(s)	<b>Technical Assistance Provider</b>	Private Consultant

### Final Indicator for Lo Co Ditch 1

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	100
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Zippel		
<b>Final Indicator for Lo Co Ditch 1</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	230
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Zippel		



## Description

Efforts will include measurable steps towards accomplishing goals and activities outlined in the Plan. Actions include furthering knowledge of groundwater resources, identifying water storage opportunities to reduce downstream erosion and flooding, and implementation of BMPs to conserve soil and protect water quality.

\*Stormwater Retrofit Analysis - utilize a private consultant to complete a stormwater retrofit analysis for the City of Warroad, including inventory and inspection of existing infrastructure. The project will include: desktop and field assessment, alternatives analysis, and final report. The final report will be in a format that can be used for implementation of best management practices.

\*Agriculture Best Management Practices Cost Share Program - Conduct a series of 6 meetings to explore cost share programs to encourage Agricultural Best Management Practices such as reduced tillage, residue management, nutrient management, cover crops, and structural practices. The goal of the sessions will be to promote NRCS practices and also identify roadblocks to local adoption. A locally-led cost share program will be developed as a result of these meetings. Funding will be utilized to hire local speakers or technical expertise to help support the adoption of new practices.

\*Warroad River Water Storage - Identify alternatives in the east and west branches of the Warroad River and County Ditch 10. The focus will be on water retention, with the purpose of reducing downstream erosive peak flows and sediment transport. Project development will include meetings with MNDNR, local governments, Warroad Watershed District and others deemed necessary. A private consultant will coordinate these efforts on behalf of the Warroad Watershed District who currently has no staff.

\*Local Capacity funding will be utilized for SWCD staff time to develop and implement the AgBMP Cost Share Program and the Forest Stewardship Management Plan Cost Share Program.



Category	PROJECT DEVELOPMENT	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results	<p data-bbox="506 261 625 293">12/31/20</p> <p data-bbox="506 302 1906 375">*LOW and Roseau SWCDs met with two local experts and NRCS to discuss development of a local cost share program. COVID 19 has caused setbacks for development of program policy or outreach events.</p> <p data-bbox="506 423 1738 456">*SWCDs are developing a policy for a cover crop program and will work to roll out the program in 2021.</p> <p data-bbox="506 505 1961 659">*City of Warroad has contracted with WSN Engineering to conduct a stormwater retrofit analysis for the City of Warroad. WSN is completing the report. The modeling needed extra work, but it is within the budget. Results/recommendations are imminent. The blue-green algae brochure done in conjunction with this project has been completed and will be available at lake public accesses in 2021.</p> <p data-bbox="506 708 1961 862">*Project work team has been assembled for the Warroad River Water Storage Analysis. Houston Engineering is providing the consulting services. Pre-work and project planning is underway, and a kickoff meeting has been held. Additional input by state/regional agencies has been solicited. Stacked hydrographs and a map of contributing areas have been completed. Project is ongoing.</p> <p data-bbox="506 911 705 943">As of 12/31/22 -</p> <p data-bbox="506 951 1919 984">*Warroad River Water Storage Analysis has been completed. HEI presented the report to the WRWD in February 2021.</p> <p data-bbox="506 992 1961 1065">Note: Based on the report, further project development is in the works for coordinating and conducting meetings with the involved stakeholders.</p> <p data-bbox="506 1073 1919 1187">*WSN has submitted a Technical Memo of investigative results regarding a stormwater retrofit analysis to the City of Warroad. The City of Warroad superintendent and engineer are working together to implement some of the practices. (02/21/2021)</p> <p data-bbox="506 1195 1780 1227">*Meetings with stakeholders continue into the next two to three years for sites impacting respective lands.</p> <p data-bbox="506 1276 716 1308">*As of 10/31/22 -</p> <p data-bbox="506 1317 1898 1390">Coordination of project team meetings for the Warroad storage projects. Present findings and recommendations for storage projects.</p>	

Grant Activity - SSTS Cost Share	
<b>Description</b>	<p>Cost share program for low-income septic system upgrades in the LW Watershed. A cost share program will be developed by the Lake of the Woods Land and Water Planning Office. This program will be for ISTS systems in Lake of the Woods County only.</p> <p>ISTS systems will be cost shared on a tiered-income system. Low-income applicants will be eligible for up to 100% of the cost of the system if they meet the required threshold. Systems must be failing or pose a threat to water quality.</p> <p>The Land and Water Planning Office will be responsible for technical oversight on these projects.</p>
<b>Category</b>	SUBSURFACE SEWAGE TREATMENT SYSTEMS
<b>Start Date</b>	<b>End Date</b>
<b>Has Rates and Hours?</b>	No
<b>Actual Results</b>	<p>As of 12/31/21 -</p> <p>The cost share program was developed by the Land and Water Planning Office. A tiered income system has been developed.</p> <p>Installation of 1 mound system at 75% cost share. Land and Water Planning Office inspected and approved the installation of the system.</p>

Activity Action - SSTS			
<b>Practice</b>	126M - Septic System Improvement	<b>Count of Activities</b>	1
<b>Description</b>			
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	30-Sep-21
<b>Mapped Activities</b>	No	<b>Technical Assistance Provider</b>	Other

Final Indicator for SSTS			
<b>Indicator Name</b>	PATHOGENS (E. COLI)	<b>Value</b>	9030000000000
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) CFU	<b>Calculation Tool</b>	Septic System Improvement Estimator (SSIE)
<b>Waterbody</b>	Lake of the Woods		

Final Indicator for SSTS			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Lake of the Woods		

Final Indicator for SSTS			
Indicator Name	NITROGEN	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Septic System Improvement Estimator (SSIE)
Waterbody	Lake of the Woods		

**Grant Activity - Special projects - Keep it Clean**

Description	Lake of the Woods Keep it Clean program - SWCD staff will conduct a shoreline cleanup on over 10 miles on Lake of the Woods southern shore, from Wheelers Point to Rocky Point and along Muskeg Bay. A Conservation Corps of Minnesota crew will perform the cleanup, with oversight from SWCD staff.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>12/31/20 - no action taken. This activity is scheduled for spring 2021.</p> <p>12/31/21 -</p> <p>*Secured grant funding to complete the MCC shoreline cleanup in 2021.</p> <p>*Shoreline cleanup completed May 24-28th, 2021. Removed over 80 bags of garbage from 12 miles of shoreline.</p>		

**Grant Activity - Streambank and Shoreland Projects**

<p><b>Description</b></p>	<p>Complete shoreline stabilization practices in the Lake of the Woods watershed to prevent erosion and sedimentation, protect infrastructure and repair areas damaged from high water events.</p> <p>Activities include:</p> <p>*Lake of the Woods Shoreline Protection Projects - Implementation of 400 feet of shoreline protection projects on Lake of the Woods utilizing a DNR-authorized riprap design. The LOW SWCD will utilize state cost share program policy to implement the practices. Survey will be completed by the NC MN TSA 8 staff, and design will be completed by WSN Engineering who has experience in designing projects for Lake of the Woods.</p> <p>*Warroad River Watershed Streambank Protection Projects - Implementation of 3 streambank protection projects on the Warroad River, for a total of 455 linear feet of protection. WRWD will oversee the projects and will work with private landowners and a private consultant to survey, design and implement. Progress toward goal = 20 T/year sediment reduction = 1% STG for sediment; 90 lbs/yr TP reduction = 5% STG for TP. 8% of Stream Restoration Goal.</p> <p>*Roseau County Ditch 10 Slope Stabilization was originally planned but was not completed. The workplan was amended to remove Ditch 10 and add Lake of the Woods County Ditch 1 slope stabilization.</p>
<p><b>Category</b></p>	<p>STREAMBANK OR SHORELINE PROTECTION</p>
<p><b>Start Date</b></p>	<p><b>End Date</b></p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>
<p><b>Actual Results</b></p>	<p>12/31/20 - no streambank or shoreline projects have been cost-shared. This activity is in the development stages.</p> <p>11/1/21 - completion of Dahlen shoreline project on Lake of the Woods. Completion of 3 streambank projects in the WRWD.</p>

Activity Action - Dahlen 2021-04-1W1P			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	riprap protection - Lake of the Woods		
Proposed Size / Units	50.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	50.00 LINEAR FEET	Installed Date	9-Jul-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for Dahlen 2021-04-1W1P			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake of the Woods		

Final Indicator for Dahlen 2021-04-1W1P			
Indicator Name	SEDIMENT (TSS)	Value	38.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake of the Woods		

Final Indicator for Dahlen 2021-04-1W1P			
Indicator Name	SOIL (EST. SAVINGS)	Value	38.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake of the Woods		

Activity Action - WRWD Streambank _Ulwelling			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Streambank stabilization project in the Warroad River Watershed District.		
Proposed Size / Units	250.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	LINEAR FEET	Installed Date	31-Jul-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for WRWD Streambank _Ulwelling			
Indicator Name	SEDIMENT (TSS)	Value	9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Warroad River		

Final Indicator for WRWD Streambank_Ulwelling			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Warroad River		

Activity Action - WRWD Streambank_Fast			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Streambank protection project Warroad River Watershed District		
Proposed Size / Units	120.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	LINEAR FEET	Installed Date	31-Jul-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for WRWD Streambank_Fast			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	22
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Warroad River		

Final Indicator for WRWD Streambank_Fast			
Indicator Name	SEDIMENT (TSS)	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Warroad River		

Activity Action - WRWD Streambank_Phillipe			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	Streambank protection project		
Proposed Size / Units	46.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	LINEAR FEET	Installed Date	31-Jul-21
Mapped Activities	1 Line(s)	Technical Assistance Provider	Private Consultant

Final Indicator for WRWD Streambank_Phillipe			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Warroad River		

Final Indicator for WRWD Streambank_Phillipe			
Indicator Name	SEDIMENT (TSS)	Value	3

<b>Indicator Subcategory/Units</b>	<b>WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR</b>	<b>Calculation Tool</b>	<b>Other</b>
<b>Waterbody</b>	Warroad River		

<b>Grant Activity - WBIF Match Sources</b>			
<b>Description</b>	<p>Aggregated sources of match for implementation of the watershed based implementation funds. Match sources will include landowner match for cost share programs, USDA partner match for implementation of agricultural practices in the watershed, and cash match from partners utilizing WBIF for studies and engineering.</p> <p>*Sources and activities of match are tracked separately outside of eLink. The supporting documentation will be uploaded into eLink.</p>		
<b>Category</b>	ADMINISTRATION/COORDINATION		
<b>Start Date</b>		<b>End Date</b>	
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	See eLink attachment for match documentation		

## Grant Activity - Well location for MN Geologic Atlas

<b>Description</b>	As part of an effort to gather information which will aid in groundwater protection, Roseau SWCD staff will assist the MN US Geological Survey and MN DNR with verification of 635 wells in the Roseau County portion of the Lake of the Woods planning area. These efforts will help fill data gaps related to the groundwater in the region by completing the first step towards the development of a groundwater atlas. Staff time will include training, gathering information and historical data to assist with the inventory, office and field verification, landowner interviews, and monthly meetings with USGS staff. Estimated time per well for in-office verification is .5 - 1 hours depending on data available, with a goal of 300 wells per year. Field visits will be required when locations cannot be verified from aerial photography. Field work will begin in 2021.	
<b>Category</b>	INVENTORY/MAPPING	
<b>Start Date</b>	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes	
<b>Actual Results</b>	<p>12/31/2020 - ArcGIS mapping and attributing have been completed for 240 wells. Potential field verification for 100 wells. (400 wells are remaining.) Roseau County has not signed a contract with MGS.</p> <p>12/31/21 - *ArcGIS mapping and attributing have been completed for 582 wells within the LOW watershed area of Roseau County. 281 wells are verified; 301 wells need field verification (174 sites have been targeted for field verification based on potential township road view); 182 wells have no water well record to landowner link based on platbooks. Roseau County has not signed a contract with MGS.</p> <p>10/31/22 - *ArcPro mapping and attributing - 770 wells total; 590 verified wells; field verification has been done; Project is completed.</p>	

## Grant Attachments

Document Name	Document Type	Description
<b>2020 Watershed Based Implementation Funding</b>	Grant Agreement	2020 Watershed Based Implementation Funding - Lake of the Woods Watershed Joint Powers Board



Document Name	Document Type	Description
<b>2020 Watershed Based Implementation Funding EXECUTED</b>	Grant Agreement	2020 Watershed Based Implementation Funding - Lake of the Woods Watershed Joint Powers Board
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/15/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/17/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/13/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/14/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/06/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/19/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 11/14/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/30/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/30/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/21/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/13/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/09/2022
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/09/2022
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 03/27/2020
<b>C20-9994 2nd Financial Reconciliation Checklist/Report</b>	Journal	Journal Dated - 12/09/2022
<b>C20-9994 Financial Reconciliation #1 Checklist-Report</b>	Journal	Journal Dated - 01/13/2022
<b>Financial Report - 50%</b>	Grant	2020 - Lake of the Woods Watershed 1W1P
<b>Financial report</b>	Grant	2020 - Lake of the Woods Watershed 1W1P
<b>Match Tracker</b>	Grant	2020 - Lake of the Woods Watershed 1W1P
<b>Match Tracker</b>	Grant	2020 - Lake of the Woods Watershed 1W1P
<b>Milestones</b>	Grant	2020 - Lake of the Woods Watershed 1W1P
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 04/06/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/07/2022
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 11/15/2022