



# Grant Progress Report

## Projects and Practices 2021

**Grant Title:** Lake Ida Targeted Phosphorus Reduction Project

**Grant ID:** C21-4336

**Grantee:** Douglas SWCD

**Fiscal Agent:** Douglas SWCD

**Grant Day-to-Day Contact:** Jerome Haggemiller

**Grant Award (\$):** \$683,867.00

**Required Match (%):** 25

**Required Match (\$):** \$170,966.75

**Grant Execution Date:** 05/21/2021

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

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$683,867.00	\$562,777.93	\$121,089.07
Match Funds	\$227,955.73	\$165,614.34	\$62,341.39
Other Funds	\$50,000.00	\$0.00	\$50,000.00
<b>Total</b>	<b>\$961,822.73</b>	<b>\$728,392.27</b>	<b>\$233,430.46</b>

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

### Project Abstract

Through an AIG, Barr Engineering was hired to complete a feasibility study addressing phosphorus loading to Ida. The most feasible options were compared, and the following activities were recommended and will be completed through this grant: construction of a 1,899' channel along the wetland edge, repair 741' of existing channel, construct 1 stilling basin, and repair an existing sediment pond. Implementation will prevent loading of 240 lbs/year of TP to Ida. The WRAPS TP reduction goal for Ida is 300 lbs/year.

The AIG was used to complete water quality testing and modeling in a 30+ acre DNR Aquatic Management Area wetland, and in 3 locations on County Ditch 23, that flows through the AMA, then into Lake Ida. Testing confirmed the wetland is leaching soluble reactive phosphorus from legacy pollution and is a major component of the TP load to Ida. 2018 monitoring found that May-October, a total of 768 lbs. of phosphorus left the wetland, flowing directly into Ida. During summer months the water temps rise in the wetland decreasing oxygen which causes phosphorus attach to the sediment to be released. Barr also

completed a subwatershed assessment for the lake to identify other sources of phosphorus, none are as significant as the wetland.

MN DNR lists Lake Ida as highest priority in terms of phosphorus sensitivity, high in biological significance (WRAPS pg 107), and is a 1ST ranked waterbody (defined as “exceptional and there are water quality concerns to address with protection projects”) (WRAPS pgs 48 & 51). Ida subwatershed is highest priority for restoration and protection (WRAPS pg 50). This paired with the AIG results makes Ida and the wetland high priorities for Douglas.

Public meetings have been held to review the engineer’s findings and recommendations. At which questions from the public, SWCD Board, and county officials were addressed. The Douglas County Board and the Ditch Inspector have stated their support for the project.

**Proposed Measurable Outcomes**

This project will prevent 240 lbs/year of phosphorus from entering Lake Ida. 200lbs/year by utilizing a low flow channel around the wetland; 40lbs/year by fixing an existing sediment pond. This reduction will help prevent Ida from becoming impaired.

**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>
Administration / Coordination	Administration/Coordination	Local Fund	Local Match	\$18,070.13	\$2,000.00	\$16,070.13	Y
Sediment Pond Repair	Agricultural Practices	Local Fund	Local Match	\$52,681.52	\$150,464.34	(\$97,782.82)	Y
Diversion Channel	Conservation Drainage	Local Fund	Local Match	\$128,019.75	\$13,150.00	\$114,869.75	Y
Technical / Engineering Assistance	Technical/Engineering Assistance	Local Fund	Local Match	\$29,184.33		\$29,184.33	Y
Administration / Coordination	Administration/Coordination	Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$54,210.38	\$50,064.86	\$4,145.52	N
Sediment Pond Repair	Agricultural Practices	Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$308,044.56	\$346,793.50	(\$38,748.94)	N
Diversion Channel	Conservation Drainage	Other Funds	Long Prairie Collaborative FY23 WBIF	\$50,000.00		\$50,000.00	N
Diversion Channel	Conservation Drainage	Current State Grant	Lake Ida Targeted Phosphorus	\$184,059.25	\$27,689.25	\$156,370.00	N

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
			Reduction Project				
Technical / Engineering Assistance	Technical/Engineering Assistance	Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$137,552.81	\$138,230.32	(\$677.51)	N

### Indicator Summary

Indicator Category	Proposed Indicator	Total Value	Unit
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	200	Lbs/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	40	Lbs/Yr

Indicator Category	Final Indicator	Total Value	Unit
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	40	Lbs/Yr

### Grant Activities

Activity Name: Administration / Coordination							
Activity Category: Administration/Coordination						Staff time?: Yes	
<p><b>Description:</b> Activities to be completed include, but are not limited to: obtaining proper permits, project tracking, payment processing, reporting, post construction site inspections completed. The Douglas SWCD will also initiate the process through the drainage authority law under 103E.227 (Impounding , Rerouting, and Diverting Drainage Systems Waters) for the construction of the project and future Operation and Maintenance. These activities will be completed by Douglas SWCD staff.</p>							
Budget Details							
Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?	
Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$54,210.38	\$50,064.86	\$4,145.52	12/31/2025	N	
Local Fund	Local Match	\$18,070.13	\$2,000.00	\$16,070.13	03/23/2023	Y	

## Actual Results

<u>Results</u>	<u>Date Added</u>
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2021 Contract work for securing contract engineer, coordinating permitting agencies meeting, quarterly meeting with contract engineer, meetings with ditch inspector on process for petition related to grant project, and grant reporting. Jan-June 2022. Work continued with consultant on final plans and permitting. Meetings coordinated with consultant and MN DNR on permit issues in working in AMA area. Invoice processing and payments and grant reporting. July-Dec 2022 Continued meeting with MN DNR on permit requirements and permit process. Meeting with consultant on permitting and plan design. Invoice processing and payments. Grant reporting.	2/17/2021 11:30:56 AM
Jan. 1 - June 30, 2023 Meeting with permitting agencies, TEP meetings on project. Permit submitted to MN DNR in March 2023. Engineering completed for permit application and follow up engineering as requested by MN DNR staff.	8/23/2023 8:05:17 AM
July 1-December 31, 2023 - Providing additional information to DNR regarding Permit Application. Received letter from DNR that permit application was denied. Meeting with BWSR and Lake Assn. on permit denial and next steps. Media Inquiry on CD23 grant, compiled info for media inquiry. Meetings with Lake Assn and consultant regarding meeting with DNR to reconsider permit. Meeting with MN DNR to reconsider permit for Project. Provided follow up information to DNR on water quality testing data and loading information to Lake Ida.	12/29/2023 12:00:00 AM
January 1 - June 30, 2024 Numerous meetings with Barr Engineering, Lake Ida Association president, Douglas County ditch Inspector on permitting issues with MN DNR. Presently not an option to move forward with proposed diversion channel, now looking at different option for original feasibility study as possible solution. Extra engineering work and modeling completed by consultant engineer.	6/28/2024 8:14:20 AM
July 1- Dec. 31, 2024 bid package prep. and bidding of stormwater pond fix. Contactors meeting preconstruction, during construction and post construction. Grant reporting, Invoice review. Additional meeting with Lake Ida Assn. Barr Engineers, MN DNR, and County Ditch Inspector. Grant modification in elink.	12/31/2024 12:00:00 AM
January 1 - June 30, 2025 Construction oversite with consulting engineer. Payment processing for stormwater pond fix. Consultant invoice review and payments for work completed. Meeting with consultant engineers on plugged pipe and erosion problem during spring thaw. Meeting with landowner on	6/30/2025 12:00:00 AM

**Results**

**Date Added**

erosion fix. Elink reporting.

July 1 - Dec. 31, 2025, Construction oversight with consulting engineer. Payment processing for stormwater pond fix. Consultant invoice review and payments for work completed. Meeting with consultant engineers on plugged pipe and erosion problem during spring thaw. Meeting with landowner on erosion fix. Elink reporting.

**Activity Name: Diversion Channel**

**Activity Category:** Conservation Drainage

**Staff time?:** No

**Description:** Materials and construction of a diversion channel along wetland edge, stilling basin, and channel repair. Project will be completed by qualified contractors according to engineers' designs and approval from Douglas County Ditch Authority. Project details located on page 22 of Feasibility Study (Alternative D2, figure 6-4). Feasibility study completed by previous CWF AIG grant received in 2017.

**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	Long Prairie Collaborative FY23 WBIF	\$50,000.00		\$50,000.00		N
Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$184,059.25	\$27,689.25	\$156,370.00	06/28/2024	N
Local Fund	Local Match	\$128,019.75	\$13,150.00	\$114,869.75	02/04/2025	Y

**Actual Results**

**Results**

**Date Added**

Construction planned for 2022.

2/17/2021 11:55:55 AM

Permitting issues with MN DNR will push back construction until 2023.

1/29/24; no action taken on this project in 2023.

January 1 - June 30, 2024 Numerous meetings with Barr Engineering, Lake Ida Association president, Douglas County ditch Inspector on permitting issues with MN DNR. Presently not an option to move forward with proposed diversion channel, now looking at different option for original feasibility study as possible solution. Extra engineering work and modeling completed by consultant engineer.

6/28/2024 8:37:30 AM

1/28/2025: Permitting for this project has not been issued by the DNR. These funds will be applied to an alternative project.

1/29/2025 8:37:18 AM

**Results**

**Date Added**

6-30-25

6/30/2025 12:00:00 AM

Proposed diversion ditch was not permitted by MN DNR. Alternative in original feasibility study, alternative D1 (channel bypass through AMA) is repairing the existing channel of the drainage ditch. This alternative was not approved by BWSR board conservationist to use grant funds to complete. Douglas County and Lake Ida Assn. decided to proceed with alternative D1 and cover the cost for this work and funds for this work will be match for the grant. Work completed in the winter of 2025.

11/12/2025- Requested to remove the \$50,000 from Diversion Channel to the Ag Practices Category. This was approved by Darren Meyers on 1/26/2026 3:10:32 PM November 12, 2025. See attachment Email.

**Activity Name: Sediment Pond Repair**

**Activity Category:** Agricultural Practices

**Staff time?:** No

**Description:** Materials and construction costs to rehabilitate existing sediment pond located along County Ditch 23, upstream of the Lake Ida AMA. This existing pond was constructed in the early 1990's and is beyond its 10 year life span. Project detailed on page 21 of Feasibility Study (Alternative A). Project will be completed by qualified contractors according to engineers' designs.

**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	Lake Ida Targeted Phosphorus Reduction Project	\$308,044.56	\$346,793.50	(\$38,748.94)	12/31/2025	N
Local Fund	Local Match	\$52,681.52	\$150,464.34	(\$97,782.82)	12/31/2025	Y

**Actual Results**

**Results**

**Date Added**

Construction planned for 2022.

2/17/2021 11:49:45 AM

Permitting issues and delays from MN DNR will push construction until 2023.

January 1 - June 30, 2024 Final design work for Sediment Pond repair. Coordination with landowner and Douglas County Ditch Authority on design and access to site. Preparing bid document for project. Planned Construction Fall of 2024.

6/28/2024 8:42:07 AM

July 1 - Dec. 31, 2024 Consultants time for final engineering for Sed. pond fix, bidding of work by consultant. Meeting with Engineer, landowner

12/31/2024 12:00:00 AM

**Results**

**Date Added**

and contractor. Construction inspection by consultant.

January 1 - June 30, 2025

6/30/2025 12:00:00 AM

Sediment pond fix construction work. Work completed winter of 2025 and finished February 6, 2025. Matching funds provided by Douglas County Legacy Fund. Upon spring thaw, outlet pipe from sediment pond to county ditch was plugged up and caused erosion around weir and flooding of area. Contractor on site for temporary fix of erosion problems and pumping water levels down. With wet weather this spring and summer final repair still ongoing and being addressed by contractor. Final repairs should be completed by Aug. 2025.

July 1-Dec. 31, 2025 Final repair of erosion around weir, installation of stop log structure, seeding and mulching of the site after repair completed.

12/31/2025 12:00:00 AM

**Final Indicators**

<u>Indicator</u>	<u>Total Value</u>	<u>Unit</u>
Phosphorus (Est. Reduction)	40	Lbs/Yr

Activity Action Name:	Sediment Pond Fix	Activity Count: 1
Practice Type:	155M - Storm Water Retention Basins	Size/Units: 67029.2 - Square Feet
TA Provider/JAA:	Private Consultant	Lifespan: 10 Years
Practice Description:	Repair of existing stormwater pond.	Install Date: 02/21/2025
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	40	Other	Lake Ida

## Activity Name: Technical / Engineering Assistance

**Activity Category:** Technical/Engineering Assistance

**Staff time?:** Yes

**Description:** Technical assistance in the form of site visits, meetings, outreach, project organization, construction plans, specs. and O & M for project to comply with Current ditch law and Douglas County Drainage Authority, and project staking will be completed by SWCD staff, WCTSA staff, and/or contracted professional engineer. Project oversight and engineering assistance provided by a contracted professional engineer and/or WCTSA. Necessary permits will be obtained by SWCD Staff and/or Contracted engineer before any work is started.

### 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	Local Match	\$29,184.33		\$29,184.33		Y
Current State Grant	Lake Ida Targeted Phosphorus Reduction Project	\$137,552.81	\$138,230.32	(\$677.51)	12/31/2025	N

### Actual Results

**Results** **Date Added**

2021 2/17/2021 11:40:20 AM

Consultant Engineer hired by SWCD in May of 2021. Preliminary design work completed and initial meeting held with permitting agencies. Preliminary design being modified per recommendations from permitting agencies meeting. A follow up meeting with permitting agencies scheduled for early 2020. Final design, permitting, and construction planned for 2022.

Jan 2022-June 2022

Barr engineering continued work on final design. Soil borings completed at sediment pond. Final draft plan presented to permitting agencies. An issue has come up with MN DNR on work in the AMA area as federal funds were used to purchase property. Additional permitting will be needed from DNR. Meetings are scheduled to work through permitting with DNR.

July-Dec. 2022

Minor design adjustment per DNR recommendation. re-running some modeling for MN DNR and plotting existing Ditch per original survey for DNR. Putting together additional data for MN DNR. Meeting with SWCD on permit process and needed material.

July 1-December 31, 2023 - Consultants work providing additional information to DNR regarding Permit Application. Received letter from DNR 12/29/2023 12:00:00 AM that permit application was denied. Meeting with BWSR and Lake Assn. on permit denial and next steps. Meetings with Lake Assn and SWCD

**Results**

**Date Added**

staff regarding meeting with DNR to reconsider permit. Meeting with MN DNR to reconsider permit for Project. Provided follow up information to DNR on water quality testing data and loading information to Lake Ida.

July 1 - Dec. 31, 2024 Consultants time for final engineering for Sed. pond fix, bidding of work by consultant. Meeting with Engineer, landowner and contractor. Construction inspection by consultant. 12/31/2024 12:00:00 AM

January 1 - June 30, 2025

6/30/2025 12:00:00 AM

Barr Engineering time for construction inspection of stormwater pond fix. Barr Engineering contractor invoice review and sign off of stormwater pond fix construction. Additional engineering work on pipe plugging and erosion of site during spring thaw. site visit with contractor and revising plans for fixing flooded area and erosion around weir.

July 1 - Dec. 31, 2025. Additional engineering work on pipe plugging and erosion of site during spring thaw. site visit with contractor and revising plans for fixing flooded area and erosion around weir. Barr Engineering time for construction inspection of stormwater pond repair fix. Barr Engineering contractor invoice review and sign off of stormwater pond repair fix. 12/31/2025 12:00:00 AM