



Grant Progress Report

Accelerated Implementation Grant 2025

Grant Title: Big Eagle Lake Alum Feasibility and Planning Project

Grant ID: C25-0232

Grantee: Sherburne SWCD

Fiscal Agent: Sherburne SWCD

Grant Day-to-Day Contact: Francine Larson

Grant Award (\$): \$46,890.00

Required Match (%): 10

Required Match (\$): \$4,689.00

Grant Execution Date: 03/04/2025

Grant End Date: 12/31/2027

	Total Budgeted	Total Spent	Balance Remaining*
Grant Funds	\$46,890.00	\$21,491.68	\$25,398.32
Match Funds	\$4,689.00	\$0.00	\$4,689.00
Other Funds	\$0.00	\$0.00	\$0.00
Total	\$51,579.00	\$21,491.68	\$30,087.32

*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 Sherburne SWCD requests financial assistance to complete an alum feasibility and planning project to further prepare for internal phosphorus load sequestration in Big Eagle Lake, Sherburne County. This activity is specially called for within the Sherburne County Local Water Plan (2018-2028), a Big Eagle Lake Nutrient Budget Study (2020), and the DRAFT Mississippi River St. Cloud Comprehensive Watershed Management Plan and has support from the Big Eagle Lake Improvement Association (BELIA), Eagle Lake Improvement District (ELID), and Sherburne County Commissioners. A professional consulting firm would oversee the study design components, data collection, laboratory and desktop analyses, and technical reporting. The anticipated outcome is a report outlining a specific plan for alum inactivation of phosphorus-rich sediments in the lake including a dosage calculation, permitting aspects, estimated cost, application strategy, bidding assistance, and anticipated water quality results. This activity is critical to achieve water quality reductions in Big Eagle Lake; this along with other anticipated management programs would likely result in the lake meeting water quality standards and removal from the Impaired</p>
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Proposed Measurable Outcomes

Waterbodies List as well as produce significantly better water quality in downstream waters (Elk River, nearly/barely impaired waterbody; Lake Orono, Impaired Waterbody).

The anticipated outcome is a report outlining a specific plan for alum inactivation of phosphorus-rich sediments in the lake including a dosage calculation, permitting aspects, estimated cost, application strategy, bidding assistance, and anticipated water quality results.

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>
Consultant Project Management	Administration/Coordination	Current State Grant	Big Eagle Lake Alum Feasibility and Planning Project	\$3,880.00	\$1,784.50	\$2,095.50	N
SWCD Project Administration	Administration/Coordination	Current State Grant	Big Eagle Lake Alum Feasibility and Planning Project	\$800.00	\$585.83	\$214.17	N
Alum Treatment Feasibility	Planning and Assessment	Current State Grant	Big Eagle Lake Alum Feasibility and Planning Project	\$41,530.00	\$18,620.95	\$22,909.05	N
SWCD Project Management	Project Development	Current State Grant	Big Eagle Lake Alum Feasibility and Planning Project	\$680.00	\$500.40	\$179.60	N
Alum Treatment Feasibility	Planning and Assessment	Landowner Fund	ELID Match	\$4,689.00		\$4,689.00	Y

Grant Activities**Activity Name: Alum Treatment Feasibility****Activity Category:** Planning and Assessment**Staff time?:** No

Description: Collection of sediment cores, transport and analysis of cores at UW-Stout Laboratory, review and computer analysis of data, production of an alum strategy report, developing bid documents, regulatory permitting considerations.

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	Big Eagle Lake Alum Feasibility and Planning Project	\$41,530.00	\$18,620.95	\$22,909.05	12/17/2025	N
Landowner Fund	ELID Match	\$4,689.00		\$4,689.00		Y

Actual Results

<u>Results</u>	<u>Date Added</u>
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In the past quarter, the consultant for the project has analyzed the phosphorus fractions and release rates from sediment cores collected in Eagle Lake. The consultant used this data analysis to identify optimal regions (depths) in the lake for alum application in order to inactive recycled phosphorus. The analysis included calculation of the dosage rate of product, the amount of product needed, a cost estimate, and estimate of longevity of a treatment. This information was presented to SWCD staff and the Eagle Lake Improvement District chair in November and compiled into a Technical Memo in December. SWCD staff have reviewed the technical draft and offered comments and questions, a final report is anticipated in February 2026.

Activity Name: Consultant Project Management

Activity Category: Administration/Coordination

Staff time?: No

Description: Time for the consultant to coordinate efforts, communicate with the SWCD, present materials at meetings, respond to review questions, etc.

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	Big Eagle Lake Alum Feasibility and Planning Project	\$3,880.00	\$1,784.50	\$2,095.50	08/26/2025	N

Actual Results

<u>Results</u>	<u>Date Added</u>
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In the past quarter, the consultant for the project has analyzed the phosphorus fractions and release rates from sediment cores collected in Eagle Lake. The consultant used this data analysis to identify optimal regions (depths) in the lake for alum application in order to inactive recycled phosphorus. The analysis included calculation of the dosage rate of product, the amount of product needed, a cost estimate, and

Results

Date Added

estimate of longevity of a treatment. This information was presented to SWCD staff and the Eagle Lake Improvement District chair in November and compiled into a Technical Memo in December. SWCD staff have reviewed the technical draft and offered comments and questions, a final report is anticipated in February 2026.

Activity Name: SWCD Project Administration

Activity Category: Administration/Coordination

Staff time?: Yes

Description: Time for the Sherburne SWCD to administer, track, and report on the grant.

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	Big Eagle Lake Alum Feasibility and Planning Project	\$800.00	\$585.83	\$214.17	11/07/2026	N

Actual Results

Results

Date Added

Time spent towards grant administration, time tracking and reporting.

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Activity Name: SWCD Project Management

Activity Category: Project Development

Staff time?: Yes

Description: Time for the Sherburne SWCD to review technical documents and coordinate the grant effort.

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	Big Eagle Lake Alum Feasibility and Planning Project	\$680.00	\$500.40	\$179.60	01/17/2026	N

Actual Results

<u>Results</u>	<u>Date Added</u>
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Time spent towards reviewing technical documents and coordinating the grant effort.	1/24/2026 12:14:04 PM
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