

Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2018 Accomplishment Plan



Date: May 21, 2018

Program or Project Title: Lake George Dam and Rum River Erosion

Funds Recommended: \$ 539,000

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Legislative Citation: ML 2018, Ch. 208, Art. 1, Sec. 2, subd 5(m)

Appropriation Language: \$539,000 the second year is to the commissioner of natural resources for an agreement with Anoka County to enhance aquatic habitat in and adjacent to Lake George in Anoka County and to restore and enhance aquatic habitat on the Rum River. A list of proposed habitat enhancements and restorations must be provided as part of the required accomplishment plan.

County Locations: Anoka

Regions in which work will take place:

- Metro / Urban

Activity types:

- Restore
- Preserves 495 acres of lake habitat, 150 acres of wetland habitat, and restores 625 feet of riverbank and fish and wildlife habitat.

Priority resources addressed by activity:

- Habitat
- Wetlands

Abstract:

This proposal will address two separate problems: the eminent failure of the Lake George dam and two severe erosion sites on the Rum River at Rum River Central Regional Park. We propose to replace the current failing sheet pile dam with a new dam that allows for fish passage on the outlet of Lake George. We also propose to repair two river bank erosion sites rated as 'Severe' totaling approximately 625 feet on the Rum River which will reduce sediment loading into the river by 285 tons per year and will provide improved in stream fish habitat.

Design and scope of work:

The existing sheet pile dam will be removed and a new dam, with fish passage capabilities, will be installed. Upon completion of the dam, the disturbed area will be seeded and native tree and shrub species will be planted. This project will maintain the present dam elevation which supports and preserves 495 acres of lake habitat, 150 acres of wetland habitat. This repair will also provide fish passage habitat. The habitat supported by this project provides fish spawning and nursery areas, waterfowl nesting, brood rearing and migration along with nesting and wintering cover for upland game birds. The two Rum River erosion sites will require excavation to establish a more favorable slope. The toe of the slope will be structurally reinforced to prevent further degradation of the slope and loss of soil

into the river. The resulting decrease in soil loss will improve spawning habitat in the stream through reduced sedimentation and will improve water clarity and help to moderate water temperatures and improve summer dissolved oxygen levels. The reinforcement will end at the normal high water mark, above which native grasses, forbs trees and shrubs will be planted.

How does the request address MN habitats that have: historical value to fish and wildlife, wildlife species of greatest conservation need, MN County Biological Survey data, and/or rare, threatened and endangered species inventories:

Replacing the Lake George dam will preserve 156 acres of wetland wildlife habitat important for breeding and as nursery habitat for fish, waterfowl and other game and non-game species. It will also preserve the present littoral zone in Lake George which is important refuge for juvenile fish. The re-built dam will create favorable habitat for fish passage. This project will maintain habitat for the Showy Lady Slipper and Blanding's Turtles.

Describe the science based planning and evaluation model used:

Retaining the present water levels in Lake George will help maintain critical wetland habitat needs for the Blanding's Turtle (*Emys blandingii*), which is known to occur in this area. The repair of the two erosion sites on the Rum River would reduce sediment loads that can silt over fish spawning beds, cause higher water temperatures and reduce dissolved oxygen levels.

Which sections of the Minnesota Statewide Conservation and Preservation Plan are applicable to this program:

- H2 Protect critical shoreland of streams and lakes
- H6 Protect and restore critical in-water habitat of lakes and streams

Which other plans are addressed in this program:

- Anoka County Parks System Comprehensive Management Plan

Which LSOHC section priorities are addressed in this program:

Metro / Urban:

- Protect, enhance, and restore riparian and littoral habitats on lakes to benefit game and nongame fish species

Relationship to other funds:

- Anoka County Funds and Lake George Improvement District Funds

Describe the relationship of the funds:

Anoka County and the Lake George Improvement District will provide a 25% match of cash and in-kind resources in the amount of \$135,400.

Cash amount will be \$76,000

In-kind labor and equipment pro-rata will be \$59,400

How does this program include leverage in funds or other effort to supplement any OHF appropriation:

Anoka County will provide in-kind work in the way of removing trees and clearing debris from the three sites to provide access for the equipment needed to complete the projects. We would also plant trees and shrubs along with seeding areas that have been disturbed by the projects with native species.

Per MS 97A.056, Subd. 24, Any state agency or organization requesting a direct appropriation from the OHF must inform the LSOHC at the time of the request for funding is made, whether the request is supplanting or is a substitution for any previous funding that was not from a legacy fund and was used for the same purpose:

This funding request does not supplant or substitute any previous funding source(s) that is not from a legacy fund.

Describe the source and amount of non-OHF money spent for this work in the past:

Appropriation Year	Source	Amount
2018	in kind work and cash match	\$135,400

How will you sustain and/or maintain this work after the Outdoor Heritage Funds are expended:

Anoka County has successfully restored 100's of acres of prairies and oak savanna throughout its park system. We have also successfully stabilized over 600' of eroding stream bank at two sites on the Rum River. An engineering firm will be contracted to conduct site surveys, develop designs and manage and monitor the construction process. The firm chosen would have extensive dam, water control structure and bank stabilization experience. A construction company with similar experience would be contracted through a competitive bid process to execute the removal of the old dam, the construction of the new dam (allowing for fish passage) and the stabilization of the two erosion sites. All sites will be inspected and monitored annually to ensure the dam and fish passage are functioning as designed and the riverbank stabilization projects will be inspected and monitored to ensure the toes are stabilized and the native vegetation is well established.

Explain the things you will do in the future to maintain project outcomes:

Not Listed

Activity Details:

If funded, this program will meet all applicable criteria set forth in MS 97A.056 - **Yes**

Will there be planting of corn or any crop on OHF land purchased or restored in this program - **No**

Will restoration and enhancement work follow best management practices including MS 84.973 Pollinator Habitat Program - **Yes**

Is the activity on permanently protected land per 97A.056, subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 - **Yes**
(County/Municipal, Public Waters)

Accomplishment Timeline:

Activity	Approximate Date Completed
Seek competitive bids and award contracts for design engineering and project management	October 2018
Clear trees for access by construction equipment	December 2018
Secure bids and award contract for construction	March 2018
Replace dam and repair erosion sites	December 2019
Plant trees and shrubs and seed disturbed areas	June 2020
Site evaluation and repair as needed	October 2020 - October 2023

Date of Final Report Submission: 11/1/2023

Federal Funding:

Do you anticipate federal funds as a match for this program - **No**

Outcomes:

Programs in metropolitan urbanizing region:

- Protected habitats will hold wetlands and shallow lakes open to public recreation and hunting *Measurements are made as to acres of wetland habitat hydrology maintained (150 acres) and Lake George littoral zone preserved (88 acres) for the dam replacement and a decrease in sediment loss of 285 tons per year for the river bank stabilization component.*

Budget Spreadsheet

Budget reallocations up to 10% do not require an amendment to the Accomplishment Plan

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount

Not Listed

Total Amount of Request: \$ 539000

Budget and Cash Leverage

Budget Name	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Personnel	\$0	\$40,000		\$40,000
Contracts	\$480,000	\$0		\$480,000
Fee Acquisition w/ PILT	\$0	\$0		\$0
Fee Acquisition w/o PILT	\$0	\$0		\$0
Easement Acquisition	\$0	\$0		\$0
Easement Stewardship	\$0	\$0		\$0
Travel	\$0	\$25,400	County Equipment / Operating Budget	\$25,400
Professional Services	\$47,000	\$57,000	County Operating Budget	\$104,000
Direct Support Services	\$0	\$0		\$0
DNR Land Acquisition Costs	\$0	\$0		\$0
Capital Equipment	\$0	\$0		\$0
Other Equipment/Tools	\$0	\$0		\$0
Supplies/Materials	\$12,000	\$13,000	County Operating Budget	\$25,000
DNR IDP	\$0	\$0		\$0
Total	\$539,000	\$135,400		\$674,400

Personnel

Position	FTE	Over # of years	LSOHC Request	Anticipated Leverage	Leverage Source	Total
Staff time	0.00	0.00	\$0	\$40,000		\$40,000
Total	0.00	0.00	\$0	\$40,000		\$40,000

Amount of Request: \$539,000

Amount of Leverage: \$135,400

Leverage as a percent of the Request: 25.12%

DSS + Personnel: \$0

As a % of the total request: 0.00%

Does the amount in the contract line include R/E work?

Yes.

Describe and explain leverage source and confirmation of funds:

The leverage source will be provided by Anoka County and the Lake George Improvement District in the amount of \$135,400 in cash and in-kind resources. The in-kind amount will be \$59,400 worth of labor and equipment pro-rata. The cash amount will be \$76,000.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	0	0	0	645	645
Protect in Fee with State PILT Liability	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	0	0
Enhance	0	0	0	0	0
Total	0	0	0	645	645

Table 2. Total Funding by Resource Type

Type	Wetlands	Prairies	Forest	Habitats	Total
Restore	\$0	\$0	\$0	\$539,000	\$539,000
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$539,000	\$539,000

Table 3. Acres within each Ecological Section

Type	Metro Urban	ForestPrairie	SEForest	Prairie	N Forest	Total
Restore	645	0	0	0	0	645
Protect in Fee with State PILT Liability	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0
Enhance	0	0	0	0	0	0
Total	645	0	0	0	0	645

Table 4. Total Funding within each Ecological Section

Type	Metro Urban	ForestPrairie	SEForest	Prairie	N Forest	Total
Restore	\$539,000	\$0	\$0	\$0	\$0	\$539,000
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$539,000	\$0	\$0	\$0	\$0	\$539,000

Table 5. Average Cost per Acre by Resource Type

Type	Wetlands	Prairies	Forest	Habitats
Restore	\$0	\$0	\$0	\$836
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0

Table 6. Average Cost per Acre by Ecological Section

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	Northern Forest
Restore	\$836	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$0	\$0	\$0	\$0

Target Lake/Stream/River Feet or Miles

Lake George (495 Acres), Wetland Habitat (150 acres) and Rum River (625 River Feet)

Parcel List

For restoration and enhancement programs ONLY: Managers may add, delete, and substitute projects on this parcel list based upon need, readiness, cost, opportunity, and/or urgency so long as the substitute parcel/project forwards the constitutional objectives of this program in the Project Scope table of this accomplishment plan. The final accomplishment plan report will include the final parcel list.

Section 1 - Restore / Enhance Parcel List

Anoka

Name	T RDS	Acres	Est Cost	Existing Protection?
Lake George Dam	03324215	1	\$0	Yes
Rum River Bank repair	03224206	1	\$0	Yes

Section 2 - Protect Parcel List

No parcels with an activity type protect.

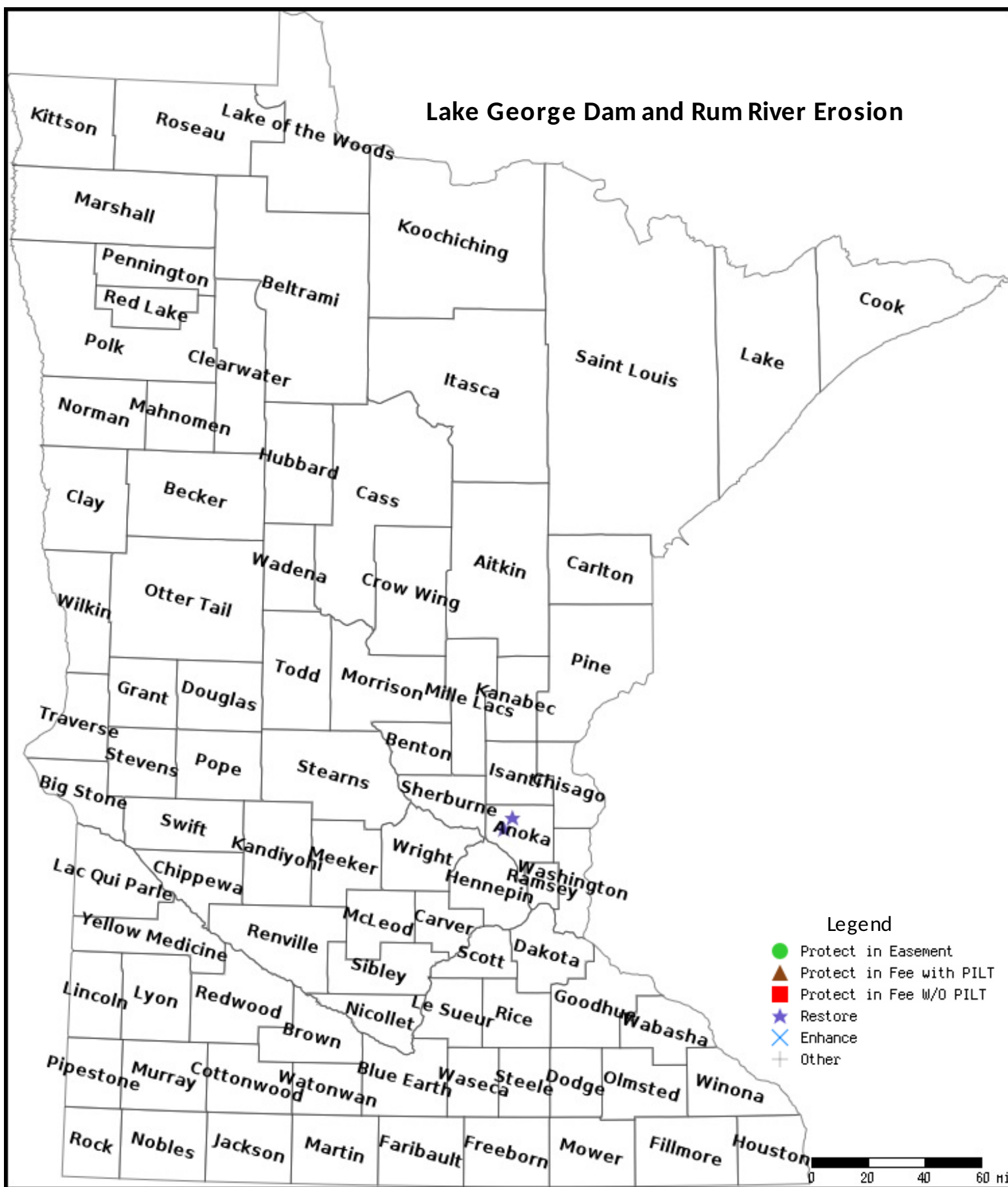
Section 2a - Protect Parcel with Bldgs

No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Parcel Map



Data Generated From Parcel List