# Lessard-Sams Outdoor Heritage Council

DNR Aquatic Habitat - Phase VII

Laws of Minnesota 2015 Final Report

## General Information

**Date:** 08/11/2025

**Project Title:** DNR Aquatic Habitat - Phase VII

**Funds Recommended:** $4,540,000

**Legislative Citation:** ML 2015, First Sp. Session, Ch. 2, Art. 1, Sec. 2, Subd. 5(a)

**Appropriation Language:** $4,540,000 in the first year is to the commissioner of natural resources to acquire interests in land in fee and permanent conservation easements for aquatic management purposes under Minnesota Statutes, sections 86A.05, subdivision 14, and 97C.02, to acquire interests in land in permanent conservation easements for fish and wildlife habitat under Minnesota Statutes, section 84.66, and to restore and enhance aquatic habitat. Up to $130,000 is for establishing a monitoring and enforcement fund as approved in the accomplishment plan and subject to Minnesota Statutes, section 97A.056, subdivision 17. A list of proposed land acquisitions and restorations and enhancements must be provided as part of the required accomplishment plan.

### Manager Information

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### Location Information

**County Location(s):** Cass, Wright, Faribault, Redwood, Lake, Crow Wing, Hubbard, Otter Tail, Goodhue, Douglas, Becker, Scott, Meeker, Dakota, Winona, Kandiyohi, Fillmore, Pine, Kanabec, Freeborn, Itasca, Clay, St. Louis, Wabasha, Le Sueur, Houston, Pope, Carlton, Mower, Aitkin, Blue Earth, Olmsted and Carver.

**Eco regions in which work will take place:**

Northern Forest

Forest / Prairie Transition

Prairie

Metro / Urban

Southeast Forest

**Activity types:**

Protect in Easement

Protect in Fee

Restore

Enhance

**Priority resources addressed by activity:**

Prairie

Forest

Habitat

## Narrative

### Summary of Accomplishments

This DNR Aquatic Habitat appropriation used a programmatic approach to achieve prioritized aquatic habitat protection, restoration, and enhancement of lakes and streams across all the LSOHC planning regions. Shoreline protection accomplished with this appropriation consisted of two fee-title acquisitions, nine trout stream easement acquisitions, and three Forest for the Future conservation easements. DNR modified three dams to allow fish passage, restored 21 acres of habitat on three streams, and enhanced 15 acres of stream habitat with this appropriation. Also, habitat enhancement project were completed on 43 Aquatic Management Areas, totaling 850 acres.

### Process & Methods

Stream projects were prioritized based on the DNR's Stream habitat Priority List, where projects were ranked based on a number of criteria surrounding support and outcomes. This appropriation funded five stream projects, several of which involved external partners. Individual project details are outlined below.

Stewart River Restoration: The Stewart River channel restoration project used Natural Channel Design to restore 4,500 of premier trout stream in Northeastern Minnesota. Historic logging and a berm located in the floodplain had significantly impacted the stream. The project was designed and implemented to create trout habitat including deep pools, overhead cover and abundant spawning gravels. The project also removed the confines of the berm and reconnected the stream with the floodplain. A 100 year flood affected the project just a few years after implementation. Some damage was caused, but the objectives of the projects were still met once repairs were made in 2019 using DNR FAW funding.

Mission Creek Restoration: DNR partnered with South St. Louis SWCD to compete this project on Mission Creek. The Mission Creek channel restoration project restored 3150 feet of stream near Duluth, Minnesota. This stream was historically altered and had an in-stream trash rack which affected fish passage and the stability of the stream. The 2012 flood caused the stream to blowout around the trash rack resulting in a highly aggraded and unstable

stream. The trash rack was removed and the dimension, pattern and profile of the stream was restored. Additionally, 8.4 miles of the stream was reconnected with the removal of the trash rack. During design, a historic native burial site was discovered just downstream of the project site. This slowed down design as we needed to sort through the risks to artifacts and find a tribal inspector to be onsite during construction. In the end we were able to do the project with oversight from the tribe. No artifacts were discovered during construction. Construction finished in June of 2020.

North Branch of Whitewater River Restoration: This channel restoration project took place within Whitewater State Park in a location that previously had riprap installed on the bank for stabilization. This riprap failed at least two times so a stream restoration was implemented to better address the issues causing the bank erosion. The project utilized toe-wood sodmat to protect the bank and reshaped the channel dimension, pattern and profile based on a nearby stable reference reach. During construction it was found that the bed and bank material were particularly difficult for toe-wood sodmat installation. A unique technique using a trenching bucket was employed to get the toe-wood sod mat installed correctly. Another impact of the bed and bank materials was that it was difficult to get vegetation established. This project had to have additional work done after the original construction was finished. Due to lack of vegetation, a large flood and being in a flashy watershed, some of the stream features were impacted after the flood. Following the damages, the natural pattern that the river laid out was utilized to improve the overall project. The project was replanted with additional straw protection. Since the adjustments were made, the project has been stable and the vegetation is getting established.

Cottonwood River Restoration: DNR partnered with Redwood County to complete this restoration. This project was originally funded to provide fish passage at three dams by modifying the dams to rock arch rapids structures. However during the course of project development, at two of the dam sites, the grantee opted to install riffles along the river corridor to slowly step the river down and to provide more habitat than originally anticipated. Two of the dam sites now have 6-7 riffles and deep pool associated with those riffles. Fish use these pools as is evident by the anglers seen at various riffles. Fish have also been seen passing through the riffles to get upstream. Construction of this project started in February of 2020; that spring construction was put on hold due to high flows and the COVID pandemic. However, as the flows were rising the contractor continued to work. This proved to be an issue when the contractor was unable to finish installing that riffle. As a result, the unfinished structure caused some significant erosion; this lead to additional work at that riffle site for the contractor once flows receded. The COVID-19 pandemic significantly limited the ability of Department staff to provide construction oversight which would likely have avoided the contractor working in rising flows. Construction of the projects were finished in fall of 2020. Overall the project accomplished the goals of fish passage and has the added benefit of additional habitat along the river corridor.

Driftless Area Habitat Enhancement: The DNR's Fisheries Construction crew used this appropriation to purchase rock and equipment rental to enhance 15 acres of stream habitat in the Driftless Area of Minnesota.

Shoreline protection accomplished with this appropriation consisted of two fee-title acquisitions, nine trout stream easement acquisitions, and three Forest for the Future conservation easements. The two fee-title acquisitions protected 52 acres and 4,825 feet of undeveloped shoreline . All nine trout stream easement acquisitions were in the SE Forest Ecological Section. Two easement acquisitions were initiated in the Northern Forest Section, but neither was successfully concluded. The nine trout stream easements protect a total of 132 acres and 31,150 feet of stream. The Forest for the Future project prioritized protecting forests in high priority cisco lake watersheds. With this project, one 32 acre easement was purchased in the Kabekona watershed (Hubbard County), 122 acres in the Ten Mile lake watershed (Cass County), and 193 acres in the Pelican watershed in Crow Wing County. Two large easement acquisitions were not completed when the landowners chose not to accept the DNR offer. These acquisitions were scheduled to be completed close to the end of the appropriation availability and we did not have

enough time to move on to other parcels. Therefore, we did not meet goals for easement acquisition and funds were returned to the Council.

## How did the program address habitats of significant value for wildlife species of greatest conservation need, threatened or endangered species, and/or list targeted species?

Acquisition of easements and fee title AMA's targeted waters with high value fisheries. Trout streams in SE and NE Minnesota support important fisheries, and the riparian habitats protected support numerous wildlife species. Lakes in the north-central forest region support diverse fisheries including walleye, bass, northern pike, muskellunge and panfish. Lakes targeted for watershed protection included coldwater fisheries (lake trout or cisco). Fishery quality was an important criterion in the prioritization process. High quality lakes in the region also support sensitive non-game fish species. Restoration of fish passage benefited multiple fish species by providing access to habitat for all life stages, including spawning areas and benefitting fisheries upstream and downstream of passage projects. Stream channel enhancement work stabilized channels and provided habitat benefits including improved water quality for diverse fish communities.

## How did the program use science-based targeting that leveraged or expanded corridors and complexes, reduced fragmentation, or protected areas in the MN County Biological Survey.

All work was part of a programmatic approach to aquatic conservation in Minnesota. The prioritization framework for acquisition in the north central forested region of the state was described in the MN DNR Fish Habitat Plan. Trout stream easement acquisition was based on fishery quality and the potential to connect existing easements. Stream restoration and enhancement projects were prioritized by MN DNR EWR and FAW Division staff.

## Explain Partners, Supporters, & Opposition

Partners for the Stewart River Restoration project included Lake County SWCD and Trout Unlimited.

South St. Louis SWCD partnered with DNR on the Mission Creek Restoration project.

For the Cottonwood River Restoration project, DNR partnered with Redwood County, the City of Sanborn, and Farmer's Golf and Health Club.

For the Driftless Area Habitat Enhancement project, DNR worked with many private landowners with conservation easements to enhance trout stream habitat.

Our stream restoration coordinator and stream habitat specialists worked with many other local and state partners to develop future restoration and enhancement projects.

## Exceptional challenges, expectations, failures, opportunities, or unique aspects of program

The scope of the Cottonwood River Restoration project expanded after design started. Including additional habitat features in this project created some design challenges. However, anglers are already using the additional pools that were constructed for this project, suggesting that fish are relating to these habitat features.

During construction of the North Branch of the Whitewater River project, it was found that the bed and bank material were particularly difficult for toe-wood sodmat installation. A unique technique using a trenching bucket was employed to get the toe-wood sod mat installed correctly. The hard bed and bank material also made it difficult to establish vegetation in the restored reach and floods caused some impacts to the project. Adjustments

have been made to the project and the stream has been stable since vegetation became established. We will continue to monitor this site.

## What other dedicated funds may collaborate with or contribute to this program?

Clean Water Fund

Other : Game and Fish funds

## How were the funds used to advance the program?

Work funded by LSOHC and by the Clean Water Fund (CWF) protects and restores aquatic habitat. Clean water is a component of fish habitat. Water quality variables such as oxygen determine suitability for fish. Sedimentation directly changes substrate composition, and determines aquatic plant species composition and extent of growth. Section of Fisheries involvement in the CWF Watershed Restoration and Protection Strategies (WRAPS) process helps identify projects eligible for CWF. CWF supports DNR Section of Fisheries monitoring using biological indicators, which are used to track condition of aquatic communities and are part of the evaluation for success of LSOHC funded projects. CWF supported projects restore connectivity, enhance stream channel stability, and restore natural hydrographs. Both funds contribute to sustainable fisheries. CWF complemented, but did not directly leverage this proposal.

Clean Water Funds were utilized for the following project in this appropriation:

Stewart River Restoration: $54,750

Game and Fish contributed funds directly to the following projects in this appropriation:

Stewart River Restoration: $260,000

## What is the plan to sustain and/or maintain this work after the Outdoor Heritage Funds are expended?

Once construction is completed and vegetation is established, stream habitat projects generally do not require ongoing maintenance. DNR has multiple sources of funding that could be used for this purpose, should it arise. These include the Game and Fish Fund, Heritage Enhancement account, and Trout Stamp revenue. AMA enhancement of vegetation often has a limited duration of benefit. Prescribed burns or control of invasive plants may need to be done every 3-5 years to maintain their full benefit. DNR will continue to spend funds from internal sources, but may also make future requests to use OHF money to repeat these actions on the same parcel.

## Actions to Maintain Project Outcomes

| Year | Source of Funds | Step 1 | Step 2 | Step 3 |
|---|---|---|---|---|
| 2022 | Combination of DNR Game and Fish funds and OHF | Evaluate AMA Enhancement Projects for invasive plants | Develop or modify management plan | Prescribed burn or control of invasive plants |
| 2025 | Combination of DNR Game and Fish funds and OHF | Monitor effectiveness of stream restoration projects | Determine whether adjustments or maintenance is needed | Complete adjustments as needed |

# Budget

## Totals

| Item | Requested | AP Amount | Spent | Leverage | Received Leverage | Leverage Source | Original Total | Final Total |
|---|---|---|---|---|---|---|---|---|
| Personnel | $75,000 | $75,000 | $74,500 | - | - | - | $75,000 | $74,500 |
| Contracts | $2,170,000 | $2,246,100 | $2,459,300 | - | $348,500 | Sustain Our Great Lakes and BWSR Flood Assistance | $2,170,000 | $2,807,800 |
| Fee Acquisition w/ PILT | $290,000 | $290,000 | $224,000 | - | - | - | $290,000 | $224,000 |
| Fee Acquisition w/o PILT | - | - | - | - | - | - | - | - |
| Easement Acquisition | $1,230,000 | $1,200,000 | $1,155,400 | - | - | - | $1,230,000 | $1,155,400 |
| Easement Stewardship | $130,000 | $130,000 | $130,000 | - | - | - | $130,000 | $130,000 |
| Travel | $10,000 | $75,000 | $60,000 | - | - | - | $10,000 | $60,000 |
| Professional Services | $213,000 | $283,000 | $235,400 | - | $56,600 | South St. Louis SWCD general fund | $213,000 | $292,000 |
| Direct Support Services | $182,000 | $65,900 | $65,700 | - | - | - | $182,000 | $65,700 |
| DNR Land Acquisition Costs | - | - | - | - | - | - | - | - |
| Capital Equipment | - | - | - | - | - | - | - | - |
| Other Equipment/Tools | - | - | - | - | - | - | - | - |
| Supplies/Materials | $240,000 | $175,000 | $77,100 | - | - | - | $240,000 | $77,100 |
| DNR IDP | - | - | - | - | - | - | - | - |
| **Grand Total** | **$4,540,000** | **$4,540,000** | **$4,481,400** | **-** | **$405,100** | **-** | **$4,540,000** | **$4,886,500** |

## Personnel

| Position | Annual FTE | Years Working | Amount Spent | Leverage | Leverage Source | Total |
|---|---|---|---|---|---|---|
| AMA enhancement contracting | 0.5 | 2.0 | $74,500 | - | - | $74,500 |

## Direct Support Services

**How did you determine which portions of the Direct Support Services of your shared support services is direct to this program?**

DNR calculates the fair share to pay for support costs directly related to and necessary for the appropriation.

**Explain any budget challenges or successes:**

The most significant budget challenge with this appropriation was having two large easement acquisitions not completed when landowners changed their mind just prior to the end of funding availability. Going forward, we are working hard to move these acquisitions more quickly so we don't face these same issues.

Stream restoration projects are difficult to time with each appropriation due to unanticipated design and permitting challenges. However, we have successfully moved projects to different appropriations when needed.

**Total Revenue:** $0

**Revenue Spent:** $0

**Revenue Balance:** $0

**Of the money disclosed above, what are the appropriate uses of the money:**

E. This is not applicable as there was no revenue generated.

# Output Tables

## Acres by Resource Type (Table 1)

| Type | Wetland (AP) | Wetland (Final) | Prairie (AP) | Prairie (Final) | Forest (AP) | Forest (Final) | Habitat (AP) | Habitat (Final) | Total Acres (AP) | Total Acres (Final) |
|---|---|---|---|---|---|---|---|---|---|---|
| Restore | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 22 | 8 | 22 |
| Protect in Fee with State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 52 | 34 | 52 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 0 | 0 | 0 | 490 | 347 | 82 | 132 | 572 | 479 |
| Enhance | 0 | 0 | 200 | 330 | 0 | 0 | 437 | 535 | 637 | 865 |
| **Total** | **0** | **0** | **200** | **330** | **490** | **347** | **561** | **741** | **1,251** | **1,418** |

## Total Requested Funding by Resource Type (Table 2)

| Type | Wetland (AP) | Wetland (Final) | Prairie (AP) | Prairie (Final) | Forest (AP) | Forest (Final) | Habitat (AP) | Habitat (Final) | Total Funding (AP) | Total Funding (Final) |
|---|---|---|---|---|---|---|---|---|---|---|
| Restore | - | - | - | - | - | - | $1,824,000 | $2,306,700 | $1,824,000 | $2,306,700 |
| Protect in Fee with State PILT Liability | - | - | - | - | - | - | $347,000 | $256,800 | $347,000 | $256,800 |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - | - | - | - | - |
| Protect in Easement | - | - | - | - | $936,000 | $1,154,600 | $625,000 | $334,700 | $1,561,000 | $1,489,300 |
| Enhance | - | - | $83,000 | $127,500 | - | - | $725,000 | $301,100 | $808,000 | $428,600 |
| **Total** | **-** | **-** | **$83,000** | **$127,500** | **$936,000** | **$1,154,600** | **$3,521,000** | **$3,199,300** | **$4,540,000** | **$4,481,400** |

## Acres within each Ecological Section (Table 3)

| Type | Metro / Urban (AP) | Metro / Urban (Final) | Forest / Prairie (AP) | Forest / Prairie (Final) | SE Forest (AP) | SE Forest (Final) | Prairie (AP) | Prairie (Final) | N. Forest (AP) | N. Forest (Final) | Total (AP) | Total (Final) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Restore | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 7 | 20 | 8 | 22 |
| Protect in Fee with State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 52 | 34 | 52 |
| Protect in Fee w/o State PILT Liability | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Protect in Easement | 0 | 0 | 0 | 0 | 42 | 132 | 0 | 0 | 530 | 347 | 572 | 479 |
| Enhance | 65 | 194 | 125 | 163 | 52 | 116 | 240 | 231 | 155 | 161 | 637 | 865 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total** | **65** | **194** | **125** | **163** | **94** | **249** | **241** | **232** | **726** | **580** | **1,251** | **1,418** |

## Total Requested Funding within each Ecological Section (Table 4)

| Type | Metro/ Urban (AP) | Metro/ Urban (Final) | Forest / Prairie (AP) | Forest / Prairie (Final) | SE Forest (AP) | SE Forest (Final) | Prairie (AP) | Prairie (Final) | N. Forest (AP) | N. Forest (Final) | Total (AP) | Total (Final) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Restore | - | - | - | - | - | $344,800 | $1,282,000 | $627,100 | $542,000 | $1,334,800 | $1,824,000 | $2,306,700 |
| Protect in Fee with State PILT Liability | - | - | - | - | - | - | - | - | $347,000 | $256,800 | $347,000 | $256,800 |
| Protect in Fee w/o State PILT Liability | - | - | - | - | - | - | - | - | - | - | - | - |
| Protect in Easement | - | - | - | - | $335,000 | $334,700 | - | - | $1,226,000 | $1,154,600 | $1,561,000 | $1,489,300 |
| Enhance | $35,000 | $92,300 | $68,000 | $44,600 | $135,000 | $159,300 | $129,000 | $94,000 | $441,000 | $38,400 | $808,000 | $428,600 |
| **Total** | **$35,000** | **$92,300** | **$68,000** | **$44,600** | **$470,000** | **$838,800** | **$1,411,000** | **$721,100** | **$2,556,000** | **$2,784,600** | **$4,540,000** | **$4,481,400** |

## Target Lake/Stream/River Feet or Miles

7

## Explain the success/shortage of acre goals

Acreage goals in this appropriation were exceeded in every category except Protect in Easement. As mentioned in the Narrative section, we had two large easement acquisitions planned that were not completed when the landowners chose not to accept the DNR offer. These acquisitions were scheduled to be completed close to the end of the appropriation availability and we did not have enough time to move on to other parcels. Therefore, we did not meet goals for easement acquisition and funds were returned to the Council.

# Outcomes

## Programs in forest-prairie transition region:

Other ~ *Surveys of AMAs will help us to see benefits to riparian habitat.*

## Programs in metropolitan urbanizing region:

Other ~ *Surveys of AMAs will help us to see benefits to riparian habitat.*

## Programs in the northern forest region:

Other ~ *Surveys of AMAs will help us to see benefits to riparian habitat.*

## Programs in prairie region:

Other ~ *Future fish surveys of Cottonwood River will detect any changes from restored fish passage. Surveys of AMAs will help us to see benefits to riparian habitat.*

## Programs in southeast forest region:

Rivers, streams, and surrounding vegetation provide corridors of habitat ~ *Surveys of AMAs will help us to see benefits to riparian habitat.*

# Parcels

**Sign-up Criteria?**

Yes - Sign up criteria is attached

## Restore / Enhance Parcels

| Name | County | TRDS | Acres | Est Cost | Existing Protection | Description |
|---|---|---|---|---|---|---|
| Glacier Lake AMA | Aitkin | 05023226 | 2 | $1,218 | Yes | Invasive control and habitat enhancement |
| Bucks Mill AMA | Becker | 13842236 | 17 | $3,290 | Yes | Invasive species control/interseeding |
| Long Lake AMA | Becker | 13941231 | 1 | $1,044 | Yes | Invasive species control/prescribed burn/interseeding |
| Upper Cormorant AMA | Becker | 13843205 | 1 | $1,044 | Yes | Invasive species control |
| Ida Lake AMA | Blue Earth | 10528212 | 15 | $5,500 | Yes | Prescribed burn/Invasive control/inter-seeding/shoreland stabilizationInvasive species control |
| Little Otter Creek AMA | Carlton | 04817207 | 11 | $2,500 | Yes | AMA enhancement |
| Lotus Lake AMA | Carver | 11623201 | 6 | $3,080 | Yes | Habitat Enhancement and Invasive Species Control |
| Silver Lake AMA | Clay | 13945225 | 4 | $575 | Yes | prescribed burn, invasive species control |
| Silver Lake AMA | Clay | 13945226 | 1 | $2,110 | Yes | prescribed burn, invasive species control |
| Bertha Moody AMA | Crow Wing | 13528232 | 26 | $3,840 | Yes | Habitat Enhancement and Invasive Species Control |
| North Long Lake AMA | Crow Wing | 13428204 | 21 | $3,804 | Yes | thistle control, erosion control |
| S. Branch Vermillion River AMA | Dakota | 11418229 | 79 | $49,118 | Yes | Riparian enhancement |
| Vermillion River AMA | Dakota | 11418220 | 65 | $6,146 | Yes | Prescribed burn/Invasive control/inter-seeding/shoreland stabilization |
| Bliss AMA | Douglas | 13037221 | 13 | $4,933 | Yes | invasive species management |
| Geneva Lake AMA | Douglas | 12837216 | 2 | $2,164 | Yes | Invasive species control |
| Miltona Lake AMA | Douglas | 13037232 | 112 | $19,124 | Yes | invasive species management |
| Blue Earth River AMA | Faribault | 10428221 | 38 | $8,900 | Yes | Invasive species and woody encroachment control/interseeding |
| Duschee Creek | Fillmore | 10310236 | 1 | $10,000 | Yes | Habitat Improvement |
| Etna Creek AMA | Fillmore | 10213236 | 43 | $5,435 | Yes | Invasive species control/ inter-seeding |
| Gribben Creek | Fillmore | 10309228 | 1 | $12,000 | Yes | Habitat Improvement |
| Little Jordan Creek | Fillmore | 10412227 | 1 | $2,000 | Yes | Habitat Improvement |
| Lost Creek | Fillmore | 10411218 | 1 | $12,000 | Yes | Habitat Improvement |
| Rice Creek | Fillmore | 10411223 | 4 | $17,000 | Yes | Habitat Improvement |
| South Branch Root River | Fillmore | 10310221 | 3 | $19,000 | Yes | Habitat Improvement |
| Juglans Woods AMA | Freeborn | 10221225 | 46 | $2,100 | Yes | Invasive species management |
| Gemini AMA | Goodhue | 11217207 | 37 | $32,100 | Yes | Invasive species control/woody encroachment |

| | | | | | | |
|---|---|---|---|---|---|---|
| Winnebago Creek | Houston | 10105216 | 3 | $18,000 | Yes | Habitat Improvement |
| Bender Lake AMA | Itasca | 15028210 | 2 | $1,000 | Yes | tree planting |
| Little Knife AMA | Kanabec | 04424228 | 17 | $1,200 | Yes | invasive species management, prescribed burn, native seeding, oak planting |
| Elizabeth Lake AMA | Kandiyohi | 11833203 | 9 | $11,959 | Yes | Invasive species management |
| Games Lake AMA | Kandiyohi | 12235232 | 32 | $1,260 | Yes | invasive species managemnet |
| Middle Lake AMA | Kandiyohi | 13941231 | 7 | $24 | Yes | Invasive control and habitat enhancement |
| Stewart River Restoration | Lake | 05311215 | 8 | $409,500 | Yes | Stream channel restoration |
| Francis Lake AMA | Le Sueur | 10924235 | 7 | $4,275 | Yes | Invasive control and habitat enhancement |
| St. Peter AMA | Le Sueur | 11026214 | 4 | $6,100 | Yes | Invasive tree removal |
| Jennie Lake AMA | Meeker | 11829233 | 2 | $200 | Yes | Invasive species control/prescribe burn/woody encroachment control |
| Minniebelle Lake AMA | Meeker | 11831212 | 4 | $3,900 | Yes | Controlled burn/invasive species |
| N Fork Crow River AMA | Meeker | 12132235 | 9 | $8,504 | Yes | Invasive species/prescribed burn/interseeding |
| Thompson Lake AMA | Meeker | 11732217 | 17 | $1,500 | Yes | Prescribed burn/invasive species control |
| Cedar River AMA | Mower | 10218215 | 2 | $4,246 | Yes | Habitat Enhancement and Invasive Species Control |
| North Branch Root River | Olmsted | 10512221 | 1 | $17,000 | Yes | Habitat Improvement |
| Dead River-Walker Lake AMA | Otter Tail | 13440202 | 13 | $4,467 | Yes | Invasive species control |
| Eagle Lake AMA | Otter Tail | 13140215 | 3 | $989 | Yes | Invasive species control |
| Barnes Springs AMA | Pine | 04118212 | 25 | $9,000 | Yes | reforest old cropland, bud capping, invasive species management |
| Glenwood Headquarters AMA enhancement | Pope | 12538202 | 30 | $16,500 | Yes | Invasive control and habitat enhancment |
| Cottonwood R. Dam removals | Redwood | 10936226 | 1 | $900,000 | Yes | Dam removal for fish passage |
| Sanborn AMA | Redwood | 03627228 | 7 | $800 | Yes | Woody encroachment/Invasive species control |
| Eagle Creek AMA | Scott | 11521218 | 44 | $13,946 | Yes | Invasive species control/planting |
| Donna Lake AMA | St. Louis | 05412201 | 1 | $400 | Yes | AMA enhancement |
| French R Headquarters AMA | St. Louis | 05213209 | 42 | $5,640 | Yes | invasive species management, bud capping planted pine, tree planting |
| Lester River AMA | St. Louis | 05114201 | 14 | $3,580 | Yes | invasive species managment, bud capping planted pine |
| Mission Creek restoration | St. Louis | 04815208 | 12 | $1,200,000 | Yes | Stream channel restoration |
| Miller Creek AMA | Wabasha | 11112209 | 17 | $6,873 | Yes | Invasive species management |
| Coolridge AMA | Winona | 10509223 | 4 | $4,200 | Yes | Invasive species control |
| Middle Branch Whitewater River | Winona | 10710220 | 1 | $87,500 | Yes | Stream channel restoration |
| Rush Creek | Winona | 10508220 | 5 | $15,000 | Yes | Habitat Improvement |
| Ramsey Lake AMA | Wright | 12026218 | 1 | $4,700 | Yes | Invasive tree removal |

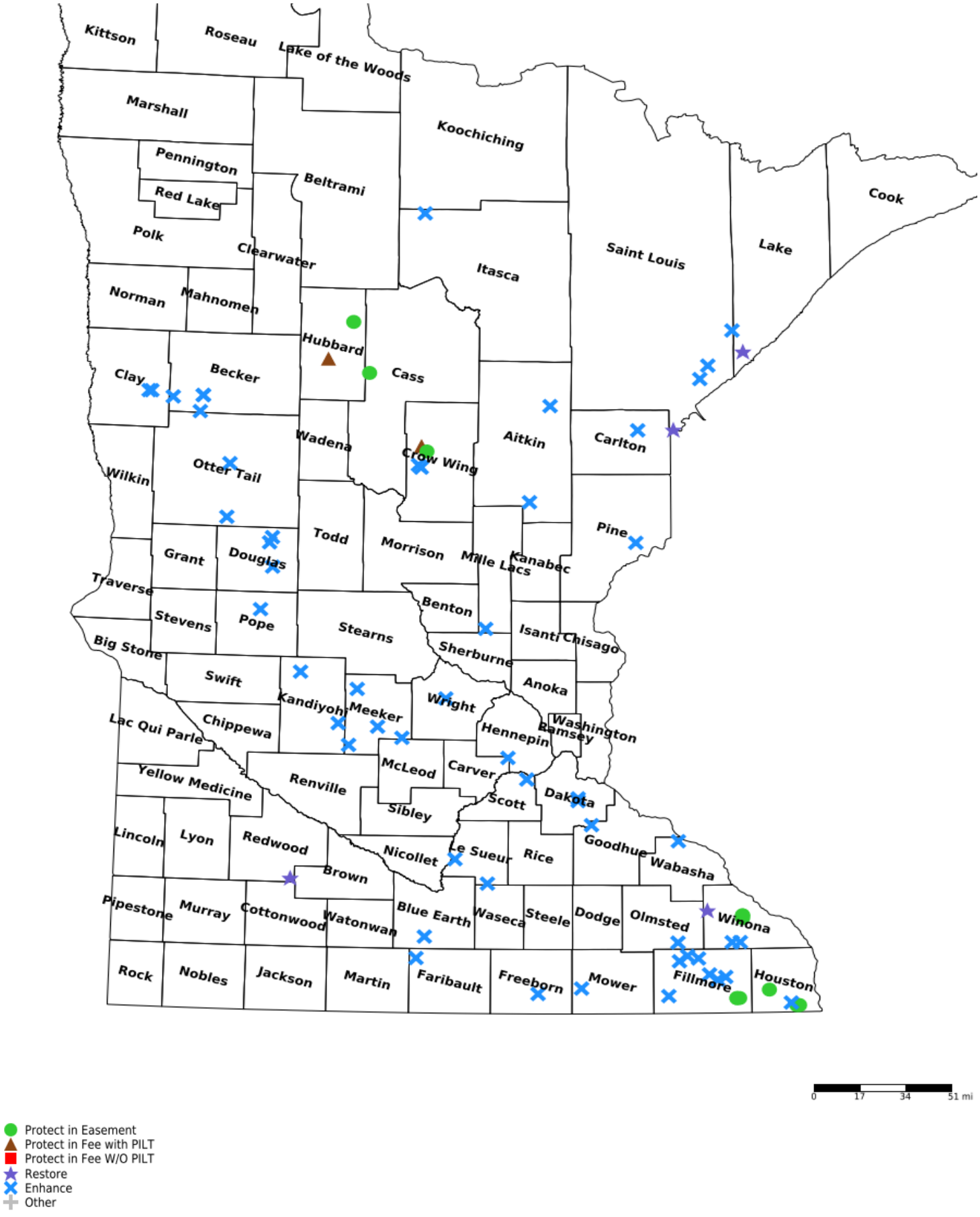
## Fee Parcels

| Name | County | TRDS | Acres | Est Cost | Existing Protection |
|---|---|---|---|---|---|
| Little Pelican Lake AMA | Crow Wing | 13628228 | 33 | $44,000 | No |
| Lower Bottle Lake AMA | Hubbard | 14134214 | 19 | $150,000 | No |

## Easement Parcels

| Name | County | TRDS | Acres | Est Cost | Existing Protection |
|---|---|---|---|---|---|
| McGill (Ten Mile Lake) | Cass | 14031208 | 121 | $181,000 | No |
| Pelican Lake Elks Camp | Crow Wing | 13528202 | 193 | $289,000 | No |
| Wisel Creek | Fillmore | 10108206 | 1 | $10,000 | No |
| Wisel Creek | Fillmore | 10108205 | 1 | $5,000 | No |
| Thompson Creek | Houston | 10108206 | 11 | $70,000 | No |
| West Beaver Creek | Houston | 10206219 | 19 | $125,000 | No |
| Winnebago Creek | Houston | 10105223 | 12 | $140,000 | No |
| Winnebago Creek | Houston | 10105224 | 61 | $290,000 | No |
| Anderson Trust (Kabekona watershed) | Hubbard | 14332205 | 34 | $51,000 | No |
| Garvin Brook | Winona | 10708233 | 1 | $10,000 | No |
| Garvin Brook | Winona | 10708233 | 3 | $95,000 | No |
| Garvin Brook | Winona | 10608204 | 1 | $5,000 | No |

# Parcel Map


Kittson
Roseau
Lake of the Woods
Marshall
Koochiching
Pennington
Beltrami
Red Lake
Cook
Polk
Clearwater
Itasca
Saint Louis
Lake
Norman
Mahnomen
Hubbard
Cass
Clay
Becker
Wadena
Aitkin
Carlton
Crow Wing
Wilkin
Otter Tail
Pine
Todd
Morrison
Mille Lacs
Kanabec
Grant
Douglas
Traverse
Benton
Stevens
Pope
Stearns
Isanti
Chisago
Big Stone
Sherburne
Swift
Anoka
Kandiyohi
Meeker
Wright
Lac Qui Parle
Chippewa
Hennepin
Ramsey
Washington
McLeod
Carver
Yellow Medicine
Renville
Scott
Dakota
Sibley
Lincoln
Lyon
Redwood
Nicollet
Le Sueur
Rice
Goodhue
Wabasha
Brown
Pipestone
Murray
Cottonwood
Watonwan
Blue Earth
Waseca
Steele
Dodge
Olmsted
Winona
Rock
Nobles
Jackson
Martin
Faribault
Freeborn
Mower
Fillmore
Houston
0
17
34
51 mi
Protect in Easement
Protect in Fee with PILT
Protect in Fee W/O PILT
Restore
Enhance
Other