Lessard-Sams Outdoor Heritage Council

Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 11

Laws of Minnesota 2019 Accomplishment Plan

General Information

Date: 02/18/2025

Project Title: Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 11

Funds Recommended: $2,359,000

Legislative Citation: ML 2019, 1st Sp. Session, Ch. 2, Art. 1, Sec. 2, subd, 5(f)

Appropriation Language: $2,359,000 the first year is to the commissioner of natural resources for an agreement with Trout Unlimited to acquire permanent conservation stream easements using the payment method prescribed in Minnesota Statutes, section 84.0272, subdivision 2, and to restore and enhance habitat for trout and other species in and along coldwater rivers, lakes, and streams in Minnesota. Up to $40,000 is to establish 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.

Additional Legislative Changes: ML 2024, Ch. 106, Art. 2, Sec. 1, subd (c) The availability of the appropriation in Laws 2019, First Special Session, chapter 2, article 1, section 2, subdivision 5, paragraph (f), Minnesota Trout Unlimited Coldwater Fish Habitat Enhancement and Restoration, Phase 11, is extended to June 30, 2025.

Manager Information

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Location Information

County Location(s): Houston, Fillmore, Winona, Olmsted, Wabasha, St. Louis, Lake, Dakota, Hubbard, Cook and Pine.

Eco regions in which work will take place:

Northern Forest

Metro / Urban

Southeast Forest

Activity types:

Protect in Easement

Enhance

Priority resources addressed by activity:

Habitat

Narrative

Abstract

Minnesota Trout Unlimited will enhance and restore habitat for fish and wildlife in and along priority coldwater streams located on existing conservation easements and public lands around the state. Trout streams are a relatively scarce resource and increasing threats to them require accelerating habitat work to reduce the backlog of degraded stream reaches. Population outcomes will be maximized by improving the connectivity of habitat and fish and wildlife populations, and building upon work on adjacent sections. Stream easements will be acquired in Pine County and the Duluth area to project the highest quality trout habitat and facilitate habitat enhancement.

Design and Scope of Work

Minnesota Trout Unlimited ("MNTU") proposes to directly restore or enhance degraded habitat on priority streams with existing protections under the Aquatic Management Area system or public ownership. We propose to restore or enhance habitat in and along these public waters (and counties):

1. Trout Brook (Dakota);

2. Hay Creek (Pine County);

3. Beaver Creek (Houston);

4. Cedar Valley Creek (Winona);

5. Rice Creek (Fillmore);

6. Split Rock River (Lake);

7. Manitou River (Lake);

8. Keene Creek (St. Louis);

9. Duluth area streams (St. Louis);

10. Numerous streams statewide (prioritized maintenance list).

We will also protect via trout stream easements segments of native brook trout streams in Pine County and the Duluth area. Once acquired the easements will be held by the MNDNR.

If contracting efficiencies or success leveraging funding enable us to, we will extend project lengths, work on one or more of the projects originally proposed but temporarily "cut" by us due to lower funding than requested [Gilbert Creek (Wabasha), Mill Creek (Fillmore), Pine Creek (New Hartford Creek)(Winona),and Torkelson Creek (Fillmore)], and/or work on additional streams. The Split Rock River project will be designed and permitted, and construction funding sought in the next funding cycle.

Individual project descriptions are provided in an attachment.

Goals and scope of work.

The goals of each project are to increase the carrying capacity and trout population of the stream, increase angling access and participation, improve water quality and provide other benefits to aquatic and terrestrial wildlife. Each project will accomplish one or more of these objectives: (a) increase adult trout abundance, (b) reduce stream bank erosion and associated sedimentation downstream, (c) reconnect the stream to its floodplains to reduce negative impacts from severe flooding, (d) increase natural reproduction of trout and other aquatic organisms, (e) increase habitat for invertebrates and non-game species, (f) improve connectivity of habitat along aquatic and riparian (terrestrial) corridors, (g) improve riparian forests as appropriate, (h) improve angler access and participation, and (i) protect productive trout waters from invasive species. The scope of work and methods utilized vary by project and are discussed in the individual project descriptions provided in the attachment.

How priorities were set.

MNTU focuses on those watersheds likely to continue to support viable, fishable populations of naturally reproducing trout and steelhead fifty years and more from now. Work is done only where degraded habitat is a limiting factor for a quality, sustainable fishery. Priority locations are determined using MNTU members' knowledge of watersheds, MNDNR management plans and surveys, other habitat and conservation planning efforts, consultations with MNDNR professionals, and science based criteria. All things being equal, we consider the potential to draw new anglers outdoors, increase public awareness, engage landowners in conservation, foster partnerships, and increase public support for OHF projects.

Stakeholder support.

We continue receiving strong support from local communities, anglers, landowners, partners and the public.

How does the plan address habitats that have significant value for wildlife species of greatest conservation need, and/or threatened or endangered species, and list targeted species?

The projects will restore or enhance degraded habitat for fish and wildlife in and along coldwater streams and rivers which historically supported naturally reproducing trout or steelhead populations enjoyed by generations of anglers. While trout are the apex predator and key indicator species in coldwater systems, a host of rare aquatic species are uniquely associated with these systems. Well-functioning coldwater aquatic ecosystem are far less "common" than the 6% of Minnesota's total stream and river miles which theoretically can still support trout. They are very rare in the western half of the state. Even many streams considered to be the best remaining trout streams have badly degraded segments which disrupt connectivity and have significant impacts on the productivity and long term resilience (and self-sustainability) of the overall trout population. Our trout streams face growing threats from warming temperatures, increased frequency of severe flooding, and rising demand for groundwater pumping from the aquifers which supply vitally important cold water inputs. The proposed projects are focused on streams and stream segments which will benefit from improved connectivity and help ensure Minnesota retains at least some high quality coldwater fisheries for future generations.

Describe how the plan uses science-based targeting that leverages or expands corridors and complexes, reduces fragmentation or protects areas identified in the MN County Biological Survey:

In selecting project sites, MNTU reviews MNDNR watershed specific fisheries management plans and other conservation planning efforts, consults with MNDNR professionals, and applies ranking criteria developed by the MNDNR. Projects must have the potential to increase the carrying capacity (fish numbers), the streams have natural reproduction, and the public have access to them. Improving the connectivity of good aquatic and riparian habitat is an important consideration and the projects are selected to expand or connect gaps in these corridors. We are increasingly targeting stream segments which build off earlier habitat or protection work in the same stream or watershed.

Which two sections of the Minnesota Statewide Conservation and Preservation Plan are most applicable to this project?

H3 Improve connectivity and access to recreation

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

Which two other plans are addressed in this program?

Driftless Area Restoration Effort

Strategic Plan for Coldwater Resources Management in Southeastern Minnesota

Which LSOHC section priorities are addressed in this program?

Metro / Urban

Enhance and restore coldwater fisheries systems

Northern Forest

Protect shoreland and restore or enhance critical habitat on wild rice lakes, shallow lakes, cold water lakes, streams and rivers, and spawning areas

Southeast Forest

Protect, enhance, and restore habitat for fish, game, and nongame wildlife in rivers, cold-water streams, and associated upland habitat

Outcomes

Programs in metropolitan urbanizing region:

Improved aquatic habitat indicators ~ *Measured through surveys of fish, macro invertebrates and/or exposed substrates. Abundance, size structure and species diversity are considered.*

Programs in the northern forest region:

Improved aquatic habitat indicators ~ *Measured through surveys of fish, macro invertebrates and/or exposed substrates. Abundance, size structure and species diversity are considered.*

Programs in southeast forest region:

Other ~

Does this program include leveraged funding?

-

Per MS 97A.056, Subd. 24, Please explain 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.

Not applicable.

Non-OHF Appropriations

Year	Source	Amount
n/a	n/a - each project is a new stand alone project	-

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

MNTU's coldwater aquatic habitat restoration and enhancement projects are designed for long-term ecological and hydraulic stability. Once in-stream work is completed and riparian vegetation well established, no significant maintenance is usually required in order to sustain the habitat outcomes for several decades. Reconnected floodplains allow floodwater to quickly spread out and dissipate energy, reducing the destructive impact of a flood. Flood waters typically flatten streamside vegetation temporarily and do not damage the in-stream structures. The tenfold increase in trout populations and threefold increase in large trout which are common following completion of a southeast Minnesota project, are gains which are sustainable long-term through natural reproduction.

We anticipate that long-term monitoring of the integrity of the improvements will be done in conjunction with routine inspections and biological monitoring conducted by local MNDNR staff, MNTU members, or landowners as

appropriate. This monitoring will not require separate OHF or other constitutional funding. In the event that there are other maintenance costs, potential sources of funding and volunteer labor include MNTU, MNDNR AMA maintenance funding, and other grant funds and organizations. MNTU volunteers will help provide long-term monitoring and periodic labor.

Actions to Maintain Project Outcomes

Year	Source of Funds	Step 1	Step 2	Step 3
Year after the grant ends.	MNTU volunteers or part of regular agency visits.	Inspect structural elements and vegetation.	Alert DNR and develop actions needed.	Conduct maintenance with volunteers and/or contractors if DNR does not.
Every 3 years thereafter	MNTU volunteers or agency.	Inspect structural elements and vegetation	Develop action plan with DNR.	Perform or assist DNR with maintenance if needed.

Activity Details

Requirements

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

Is the land you plan to acquire (easement) free of any other permanent protection?
Yes

Who will manage the easement?
MNDNR

Who will be the easement holder?
MNDNR

What is the anticipated number of easements (range is fine) you plan to accomplish with this appropriation?
While only an estimate, we calculate that six miles of stream corridor length will likely encompass 12 to 24 different landowners (based upon 1/2 mile to 1/4 mile of stream length per parcel).

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

Is the restoration and enhancement activity on permanently protected land per 97A.056, Subd 13(f), tribal lands, and/or public waters per MS 103G.005, Subd. 15 or on lands to be acquired in this program?
Yes

Where does the activity take place?

AMA

County/Municipal

Public Waters

State Forests

Other : State Park

Land Use

Will there be planting of any crop on OHF land purchased or restored in this program, either by the proposer or the end owner of the property, outside of the initial restoration of the land?
No

Will the eased land be open for public use?
Yes

Describe the expected public use:
Fishing

Are there currently trails or roads on any of the proposed acquisitions?
No

Will new trails or roads be developed or improved as a result of the OHF acquisition?
No

Will the acquired parcels be restored or enhanced within this appropriation?
Yes

One or more easement acquired in Pine County will likely need enhancement work, and some of this appropriation is earmarked for that purpose. Other parcels likely will not need restoration or enhancement. However, we will identify those that do and make funding for enhancement of those habitats a priority in future requests.

Timeline

Activity Name	Estimated Completion Date
Begin project planning, survey, design and permitting work following a July 2019 appropriation.	Begin summer 2019
Begin communications with riparian landowners re easements	Summer 2019
Begin habitat enhancements on several projects in 2020 field work season.	Begin 2020 field work season
Complete title work and closing on easements throughout 2020 and first half 2021.	2021
Complete all habitat enhancements, including establishment of riparian vegetation.	June 2024

Date of Final Report Submission: 12/01/2024

Availability of Appropriation: Subd. 7. Availability of Appropriation

Money appropriated in this section may not be spent on activities unless they are directly related to and necessary for a specific appropriation and are specified in the accomplishment plan approved by the Lessard-Sams Outdoor Heritage Council. Money appropriated in this section must not be spent on indirect costs or other institutional overhead charges that are not directly related to and necessary for a specific appropriation. Unless otherwise provided, the amounts in this section are available until June 30, 2022. For acquisition of real property, the amounts in this section are available until June 30, 2023, if a binding agreement with a landowner or purchase agreement is entered into by June 30, 2022, and closed no later than June 30, 2023. Funds for restoration or enhancement are available until June 30, 2024, or five years after acquisition, whichever is later, in order to complete initial restoration or enhancement work. If a project receives at least 15 percent of its funding from federal funds, the time of the appropriation may be extended to equal the availability of federal funding to a maximum of six years if that federal funding was confirmed and included in the original draft accomplishment plan. Funds appropriated for fee title acquisition of land may be used to restore, enhance, and provide for public use of the land acquired with the appropriation. Public-use facilities must have a minimal impact on habitat in acquired lands.

Budget

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

Totals

Item	Funding Request	Leverage	Leverage Source	Total
Personnel	$200,000	-	-	$200,000
Contracts	$1,222,000	$250,000	NRCS and USFWS	$1,472,000
Fee Acquisition w/ PILT	-	-	-	-
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	-	-	-	-
Easement Stewardship	-	-	-	-
Travel	$15,000	-	-	$15,000
Professional Services	$380,000	-	-	$380,000
Direct Support Services	$30,000	$60,000	TU	$90,000
DNR Land Acquisition Costs	-	-	-	-
Capital Equipment	-	-	-	-
Other Equipment/Tools	$2,000	-	-	$2,000
Supplies/Materials	$510,000	$200,000	NRCS and USFWS	$710,000
DNR IDP	-	-	-	-
Grand Total	**$2,359,000**	**$510,000**	**-**	**$2,869,000**

Personnel

Position	Annual FTE	Years Working	Funding Request	Leverage	Leverage Source	Total
Project manager	0.4	3.0	$25,000	-	-	$25,000
Watershed coordinator	0.1	3.0	$10,000	-	-	$10,000
Habitat enhancement staff	0.25	3.0	$165,000	-	-	$165,000

Amount of Request: $2,359,000
Amount of Leverage: $510,000
Leverage as a percent of the Request: 21.62%
DSS + Personnel: $230,000
As a % of the total request: 9.75%
Easement Stewardship: -
As a % of the Easement Acquisition: -

How will this program accommodate the reduced appropriation recommendation from the original proposed requested amount?
We will temporarily "cut" four projects in southeast MN (Gilbert Creek, Mill Creek, Pine Creek (New Hartford Creek), and Torkelson Creek) and complete design and permitting only on the Split Rock River project. We will seek construction funding for Split Rock in the next funding cycle.

Describe and explain leverage source and confirmation of funds:
Leverage estimates are estimates only. We anticipate securing approximately $400,000 in NRCS funding and $50,000 in USFWS funding.

We also hope to secure federal funds for our projects in the Lake Superior basin.

Contracts

What is included in the contracts line?
Construction related services other than professional services. Does not include strictly material costs, but does include some materials where construction bid item is a blend of materials and the labor to install it.

Travel

Does the amount in the travel line include equipment/vehicle rental?
No

Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging
None

I understand and agree that lodging, meals, and mileage must comply with the current MMB Commissioner Plan:
No

Direct Support Services

How did you determine which portions of the Direct Support Services of your shared support services is direct to this program?
Based upon approved federal rate applied only to personnel, travel and contracted "staff" costs.

Federal Funds

Do you anticipate federal funds as a match for this program?
Yes

Are the funds confirmed?
No

What is the approximate date you anticipate receiving confirmation of the federal funds?
October 2020 or later, since they need completed designs and permits first.

Output Tables

Acres by Resource Type (Table 1)

Type	Wetland	Prairie	Forest	Habitat	Total Acres
Restore	0	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	72	72
Enhance	0	0	0	133	133
Total	**0**	**0**	**0**	**205**	**205**

Total Requested Funding by Resource Type (Table 2)

Type	Wetland	Prairie	Forest	Habitat	Total Funding
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	$540,000	$540,000
Enhance	-	-	-	$1,819,000	$1,819,000
Total	**-**	**-**	**-**	**$2,359,000**	**$2,359,000**

Acres within each Ecological Section (Table 3)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Acres
Restore	0	0	0	0	0	0
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	36	0	0	0	36	72
Enhance	12	0	74	0	47	133
Total	**48**	**0**	**74**	**0**	**83**	**205**

Total Requested Funding within each Ecological Section (Table 4)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Funding
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	$270,000	-	-	-	$270,000	$540,000
Enhance	$316,000	-	$1,070,000	-	$433,000	$1,819,000
Total	**$586,000**	**-**	**$1,070,000**	**-**	**$703,000**	**$2,359,000**

Average Cost per Acre by Resource Type (Table 5)

Type	Wetland	Prairie	Forest	Habitat
Restore	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-
Protect in Easement	-	-	-	$7,500
Enhance	-	-	-	$13,676

Average Cost per Acre by Ecological Section (Table 6)

Type	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	-
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	$7,500	-	-	-	$7,500
Enhance	$26,333	-	$14,459	-	$9,212

Target Lake/Stream/River Feet or Miles

11

Parcels

Parcel Information

Sign-up Criteria?
No

Explain the process used to identify, prioritize, and select the parcels on your list:

Restore / Enhance Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection	Description
Cook County Pilot Stream	Cook	06003209	0	$0	Yes	Pilot using loggers to place large cover logs in stream channel to create better brook trout habitat.
Fredenberg Creek	Cook	05805202	0	$0	Yes	Replace culverts which act as trout barriers.
Trout Brook	Dakota	11317226	8	$370,000	Yes	Enhance another 3,000 feet of habitat on only fishbale brook trout stream left in metro area.
Vermillion River	Dakota	11418229	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Camp Creek	Fillmore	10210205	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309211	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309213	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309214	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Diamond Creek (incl. So Fk)	Fillmore	10309224	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Duschee Creek	Fillmore	10310224	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Duschee creek	Fillmore	10310224	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Duschee creek	Fillmore	10310223	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Duschee creek	Fillmore	10310226	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure

						contunued habitat benefits for years to come.
Gribben Creek	Fillmore	10309227	0	$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309216	0	$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309228	0	$0	Yes	Enhance trout habitat
Gribben Creek	Fillmore	10309221	0	$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208203	0	$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208234	0	$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10308233	0	$0	Yes	Enhance trout habitat
Maple Creek	Fillmore	10208204	0	$0	Yes	Enhance trout habitat
Mill Creek	Fillmore	10511231	0	$0	Yes	Extend habitat enhancement downstream from city parkland popular with residents and visiting anglers.
Mill Creek	Fillmore	10411205	6	$455,000	Yes	Enhance habitat in and adjacent to popular city park.
Mill Creek	Fillmore	10411206	7	-	Yes	Enhance habitat in and adjacent to popular city park.
Rice Creek	Fillmore	10411223	6	$310,000	Yes	Enhance 4,900 of habitat on productive stream along Hwy 52 a short dirve from Rochester habitat on 4,900
Root River	Fillmore	10310221	0	$0	Yes	Enhance habitat for brown trout.
Root River	Fillmore	10210206	0	$0	Yes	Enhance habitat for brown trout.
So Fork Root River	Fillmore	10208219	0	$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10208218	0	$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10209226	0	$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10209225	0	$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10208217	0	$0	Yes	Enhance trout habitat via riparian vegetation management
So Fork Root River	Fillmore	10209224	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Torkelson Creek	Fillmore	10410225	0	$0	Yes	Enhance 4,800 of habitat in watershed which is focus of comprehensive watershed work.
Willow Creek	Fillmore	10211213	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.

Wisel Creek	Fillmore	10208229	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Wisel Creek	Fillmore	10208232	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Beaver Creek	Houston	10207224	7	$0	Yes	Improve reach damaged by severe floods in the past decade.
Bee Creek	Houston	10106233	0	$0	Yes	Enhance trout habitat
Bee Creek	Houston	10106232	0	$0	Yes	Enhance trout habitat
Bee Creek	Houston	10106229	0	$0	Yes	Enhance trout habitat
Daley Creek	Houston	10307204	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Daley Creek	Houston	10307205	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Daley Creek	Houston	10407233	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Girl Scout Camp Creek	Houston	10307230	0	$0	Yes	Enhance trout habitat
Looney Creek	Houston	10406202	0	$0	Yes	Maintenance and added habitat to increase productivity
Kabekona Creek	Hubbard	14333202	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333203	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333212	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Kabekona Creek	Hubbard	14333211	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Statewide maintenance (prioritized)	Hubbard	14333212	0	$0	Yes	Habitat enhancement via management of riparian trees.
Baptism River	Lake	05807225	0	$0	Yes	Replace culverts which act as trout barriers.
Baptism River	Lake	05707218	0	$0	Yes	Replace culverts which act as trout barriers.
Baptism River	Lake	05708226	0	$0	Yes	Replace culverts which act as trout barriers.
Baptism River	Lake	05707217	0	$0	Yes	Replace culverts which act as trout barriers.
Baptism River	Lake	05809212	0	$0	Yes	Replace up to 5 culverts which act as trout barriers.
Baptism River tributary	Lake	05707233	0	-	Yes	Replace culverts which act as trout barriers.
Gooseberry River	Lake	05510230	0	-	Yes	Replace culverts which act as trout barriers.
Gooseberry River	Lake	05410209	0	-	Yes	Replace culverts which act as trout barriers.
Little Stewart River	Lake	05310219	0	-	Yes	Enhance trout habitat via riparian forest management

Little Stewart River	Lake	05310220	0	-	Yes	Enhance trout habitat via riparian forest management
Little Stewart River	Lake	05311223	0	-	Yes	Enhance trout habitat via riparian forest management
Manitou River	Lake	05907230	0	$0	Yes	Replace culverts which act as trout barriers.
Manitou River	Lake	05907236	0	$0	Yes	Plant degraded riparian corridors to long-lived tree species for shading and long term trout habitat benefits.
Manitou River	Lake	05806217	5	$0	Yes	Enhance habitat on top tier brook trout stream, including for benfits extending well downstream.
Split Rock River	Lake	05409227	0	$0	Yes	Enhance habitat for wild brook trout and steelhead
Split Rock River	Lake	05509217	0	-	Yes	Replace culverts which act as trout barriers.
Split Rock River	Lake	05408206	0	$0	Yes	Enhance habitat for wild juvenile steelhead and brook trout in very popular steelhead river.
Stewart River	Lake	05311215	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Stewart River	Lake	05411222	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411234	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411215	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411210	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310219	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310220	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05310229	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05311222	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05311223	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05311224	0	$0	Yes	Enhance trout habitat via riparian forest management
Stewart River	Lake	05411226	0	$0	Yes	Enhance forest habitat and riparian habitat
Stewart River	Lake	05310215	0	-	Yes	Enhance trout habitat via riparian forest management
Two Island River	Lake	05905232	0	-	Yes	Replace culverts which act as trout barriers.
Middle Branch Whitewater River	Olmsted	10711235	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Mill Creek	Olmsted	10512214	0	$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512236	0	$0	Yes	Enhance trout habitat

Mill Creek	Olmsted	10511231	0	$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512223	0	$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512225	0	$0	Yes	Enhance trout habitat
Mill Creek	Olmsted	10512226	0	$0	Yes	Enhance trout habitat
Southeast Maintenance and Additional Enhancements	Olmsted	10711226	0	$0	Yes	Maintnenance and additional enhancements on older projects to ensure contunued habitat benefits for years to come.
Hay Creek	Pine	04118232	5	$0	Yes	Enhance brook trout habitat on nearest stream to north mtro anglers.
Amity Creek	St. Louis	05113232	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Amity Creek	St. Louis	05014201	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113232	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114225	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114236	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114235	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113230	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05114224	0	$0	Yes	Enhance trout habitat via riparian forest management
Amity Creek	St. Louis	05113231	0	$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014215	0	$0	Yes	Enhance habitat for wild brook trout
Chester Creek	St. Louis	05014216	0	-	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014209	0	$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014216	0	$0	Yes	Enhance habitat for wild brook trout.
Chester Creek	St. Louis	05014209	0	$0	Yes	Enhance habitat for wild brook trout.
Chester Creek	St. Louis	05014204	0	$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014216	0	$0	Yes	Enhance trout habitat via riparian forest management
Chester Creek	St. Louis	05014215	0	$0	Yes	Enhance trout habitat via riparian forest management
East Branch, Amity Creek	St. Louis	05113231	0	$0	Yes	Enhance habitat for wild brook trout
French River	St. Louis	05213234	0	$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213235	0	$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213216	0	$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213228	0	$0	Yes	Enhance trout habitat via riparian forest management

French River	St. Louis	05213227	0	$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213221	0	$0	Yes	Enhance trout habitat via riparian forest management
French River	St. Louis	05213228	0	-	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015236	0	-	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015225	0	-	Yes	Enhance trout habitat via riparian forest management
Keene Creek	St. Louis	05015236	3	$0	Yes	Enhance habitat on remaining segment of wild trout stream in well used parkland.
Lester River	St. Louis	05113216	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113205	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114212	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114201	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05114202	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05214235	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113208	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113217	0	$0	Yes	Enhance trout habitat via riparian forest management
Lester River	St. Louis	05113221	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212233	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212231	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212230	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212229	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212219	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212218	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05112203	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113201	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113212	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05113213	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05112204	0	$0	Yes	Enhance trout habitat via riparian forest management
Sucker River	St. Louis	05212232	0	$0	Yes	Enhance trout habitat via riparian forest management
Us-Kab-Wan-Ka River	St. Louis	05216214	0	-	Yes	Enhance trout habitat via riparian forest management

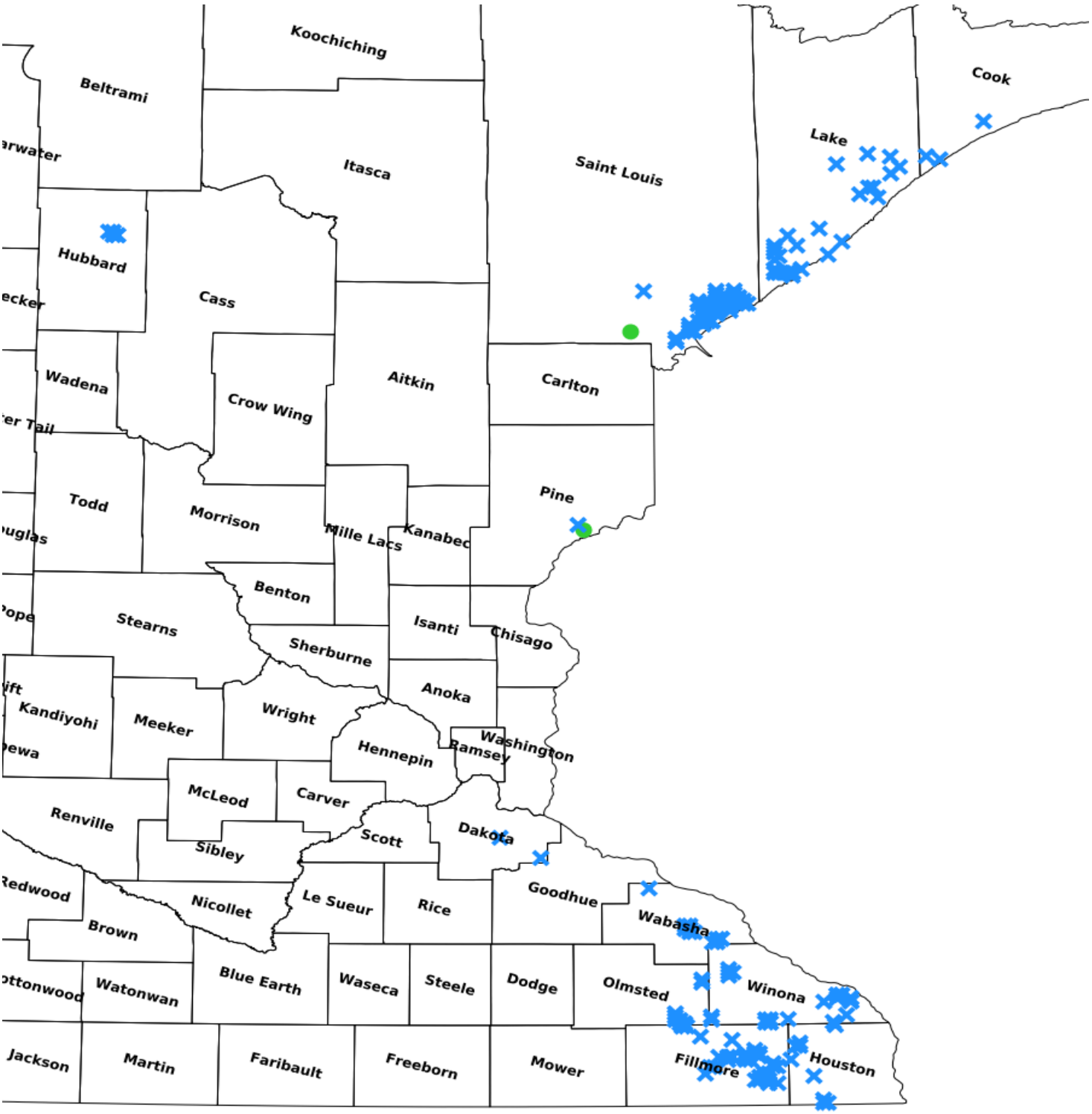
West Branch, Amity Creek	St. Louis	05113231	0	$0	Yes	Enhance habitat for wild brook trout
East Indian Creek	Wabasha	10910232	0	$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910229	0	$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910231	0	$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910228	0	$0	Yes	Enhance trout habitat via riparian vegetation management
East Indian Creek	Wabasha	10910228	0	-	Yes	Enhance trout habitat via riparian forest management
Gilbert Creek	Wabasha	11113211	0	$0	Yes	Enhance habitat on only eased segment of wild trout stream on edge of Lake City.
West Indian Creek	Wabasha	10911207	0	$0	Yes	Enhance trout habitat via riparian vegetation management
West Indian Creek	Wabasha	10911208	0	$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911206	0	$0	Yes	Enhance trout habitat via riparian vegetation management
West Indian Creek	Wabasha	10911205	0	$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911208	0	$0	Yes	Enhance trout habitat via riparian vegetation management
West Indian Creek	Wabasha	10911207	0	$0	Yes	Maintenance and added habitat to increase productivity
West Indian Creek	Wabasha	10911216	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
West Indian Creek	Wabasha	10911217	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Cedar Valley Creek	Winona	10606232	11	$410,000	Yes	Extended recent habitat work upstream 3,000 feet, narrowing, deepening pool habitat.
Little Pickwick Creek	Winona	10605229	0	$0	Yes	Maintenance and added habitat to increase productivity
Little Pickwick Creek	Winona	10605229	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Little Pickwick Creek	Winona	10605232	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Little Pickwick Creek	Winona	10605232	0	$0	Yes	Maintenance and added habitat to increase productivity

Looney Creek	Winona	10506234	0	$0	Yes	Maintenance and added habitat to increase productivity
Pickwick Creek	Winona	10606223	0	$0	Yes	Maintenance and added habitat to increase productivity
Pickwick Creek	Winona	10606226	0	$0	Yes	Enhance trout habitat
Pickwick Creek	Winona	10606223	0	$0	Yes	Enhance trout habitat
Pickwick Creek	Winona	10606224	0	$0	Yes	Enhance trout habitat
Pickwick Creek	Winona	10606224	0	$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508225	0	$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508231	0	$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508232	0	$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek	Winona	10508230	0	$0	Yes	Maintenance and added habitat to increase productivity
Pine Creek (New Hartford Creek)	Winona	10505219	2	$15,000	Yes	Enhance last 1,100' of 9,000' reach easily accessible of I-90.
Rush Creek	Winona	10508229	0	$0	Yes	Maintenance and added habitat to increase productivity
Rush Creek	Winona	10508232	0	$0	Yes	Maintenance and added habitat to increase productivity
South Branch Whitewater River	Winona	10710223	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710213	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710211	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
South Branch Whitewater River	Winona	10710214	0	$0	Yes	Enhance in-stream and riparian habitat for wild brown trout.
Trout Run Creek	Winona	10510219	0	$0	Yes	Enhance trout habitat via riparian vegetation management
Trout Run Creek	Winona	10510230	0	$0	Yes	Enhance trout habitat via riparian vegetation management

Easement Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection
Hay Creek	Pine	04018208	36	$0	No
White Pine River	St. Louis	05016217	36	$0	No

Parcel Map



- Protect in Easement
- Protect in Fee with PILT
- Protect in Fee W/O PILT
- Restore
- Enhance
- Other