

### **Lessard-Sams Outdoor Heritage Council**

#### ML 2022 Request for Funding

#### **General Information**

Date: 06/07/2021

Proposal Title: Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VIII

Funds Requested: \$9,166,000

#### **Manager Information**

Manager's Name: Annie Johnson Title: Grants Manager & Conservation Specialist Organization: Northern Waters Land Trust Address: 800 Minnesota Ave W PO Box 124 City: Walker, MN 56484 Email: AnnieJ@nwlt-mn.org Office Number: 218-547-4510 Mobile Number: 13202482320 Fax Number: Website: www.northernwaterslandtrust.org

#### **Location Information**

**County Location(s):** Cass, Hubbard, Crow Wing and Aitkin.

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

Northern Forest

#### Activity types:

- Protect in Easement
- Protect in Fee

#### Priority resources addressed by activity:

- Forest
- Habitat

#### Narrative

#### Abstract

The Northern Waters Land Trust (NWLT) and Minnesota Land Trust (MLT) will protect critical fish habitat within 48 tullibee "refuge" lakes and their minor watersheds by securing conservation easements and fee title acquisitions. These efforts are prioritized toward the 15 highest priority tullibee refuge lakes. Through this Fisheries Habitat Protection program, NWLT and MLT are working to protect 75% of each targeted watershed, a measure that provides a high probability of maintaining clean water and healthy lake ecosystems. We will permanently protect approximately 1,647 acres and 6,900 feet of shoreline through this grant.

#### **Design and Scope of Work**

Sustaining a strong angling heritage in North Central Minnesota (along with the local economy it drives) revolves around protecting fisheries habitat. Resurging shoreland development pressures and climate change are direct threats to the ecology of Minnesota's lakes. Fisheries research shows that healthy watersheds with intact forests are fundamental to sustaining good fish habitat over the long term; achieving a 75% lake watershed protection goal ensures a resilient and healthy lake ecosystem.

Our protection efforts are focused on tullibee (aka cisco), a preferred forage fish of walleye, northern pike, muskellunge and lake trout. They require cold, well oxygenated waters, a condition most common in lakes with deep water and healthy watersheds. Minnesota DNR Fisheries researchers studied tullibee lakes and designated 68 lakes in Minnesota as "refuge lakes" for tullibee that need protection. Our four county area (Aitkin, Cass, Crow Wing, Hubbard) includes 48 of these tullibee refuges. We are prioritizing fifteen of these lakes and their minor watersheds. Many are Minnesota's premier recreational lakes.

The Clean Water Critical Habitat Technical Committee evaluated all tullibee lakes in our project area and prioritized 15 lakes and their minor watersheds for action. In assigning priorities, the committee considered: (1) ecological value of the lake, (2) percent of the minor watershed currently protected, (3) number of parcels in the watershed greater than 20 acres in size, (4) partner organizations available for advising on outreach efforts, and (5) investment by other agencies and organizations to protect lands and watersheds. The Clean Water Critical Habitat Technical Committee has also developed a scoring framework to evaluate specific parcels within these priority watersheds (Attachment A). This framework takes four factors into consideration: Program Requirements (at least 20 acres in size, within our service area, and on a refuge lake), Ecological Factors (size, quality/condition of the resource, and landscape context), Threat/Urgency (development or disturbance in the minor watershed and the risk classification from water plans), and Cost (cost of project and donative value). These factors are scored on a scale of 0-210, with the highest score indicating the greatest need for conservation action. These scored parcels are made available in a user friendly format on the online Clean Water Critical Habitat map. This map has directly resulted in the protection of numerous high priority parcels

Due to the high level of interest in the program and its great success to date, we are applying for a Phase VIII of this effort. In this phase, we will protect 1,647 strategically important acres of land through conservation easements and fee title acquisitions. Program partners will include County Soil & Water Districts, MNDNR Fisheries, MLT and NWLT. This team will conduct outreach to potential landowners and help evaluate the projects to assure we are prioritizing those projects with the greatest conservation outcomes. In addition, to ensure the best conservation return on the state's investment, landowner willingness to donate a portion of the easement value will be a key component of the parcel's evaluation. MLT will hold the easements.

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

Tullibee (aka cisco) is the preferred forage fish for walleye, northern pike, muskellunge and lake trout. They require cold, well oxygenated waters - a condition most common in lakes with deep water and healthy watersheds. Tullibee populations are the "canary in the coal mine" for three significant threats to Minnesota's sport fisheries: shoreland development, watershed health and climate warming. Deep, cold water lakes with high quality, well-oxygenated waters and natural, undisturbed land cover along the shorelines and within their watersheds will have the best chance to sustain tullibee populations in the face of these threats and will serve as a "refuge" for the tullibee if annual temperatures increase.

Minnesota DNR Fisheries Research scientists studied tullibee lakes and designated 68 lakes in Minnesota as primary "refuge lakes" for tullibee that need protection. Forty-eight of these lakes and their minor watersheds are located in Crow Wing, Aitkin, Cass and Hubbard counties. These lakes are premier recreational and sport fishery lakes. Fisheries research has shown that healthy watersheds with intact forest are fundamental to good fish habitat. MN DNR Fisheries Habitat Plan, states near shore fish habitat affected by shoreland disturbance can impact fisheries. Maintaining good water quality is critical to sustaining tullibees as determined by the water's oxygen level and nutrient content. Lakeshore development decreases a lakes ability to function as a healthy ecosystem for sport fish and their forage, due to increased runoff, but also through physical alternation by lakeshore owners.

# What is the degree of timing/opportunistic urgency and why it is necessary to spend public money for this work as soon as possible?

Right now is a critical time to protect some of the "best of the best" sport fishery lakes in Minnesota. With the hit of the COVID-19 pandemic, many people have opted to move out of their urban homes and relocate to their seasonal homes in Northern Minnesota. Landowners can work, live, and play from the same location. Realtors in our four-county service area have reported a rapid increase in demand for lakeshore property. With land values rising in the region and development pressures looming, now is the time to protect these tullibee "refugee" lakes and maximize the effectiveness of this fisheries habitat protection project. We are building considerable momentum with effective partnerships with local lake associations, local SWCD's, The Nature Conservancy and North Central Conservation Roundtable. We believe these synergistic efforts will increase leveraging and maximize results.

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

Timothy Cross and Peter Jacobson in their white paper, "Landscape factors influencing lake phosphorus concentrations across Minnesota" determined coldwater fish communities are especially vulnerable to eutrophication from increased phosphorus concentrations. Decreases in hypolimnetic oxygen concentrations have direct negative effects on fish such as tullibee that physiologically require oxygenated cold water to survive, grow and reproduce. Protection is viewed as the most cost-effective strategy when applied to watersheds where human activities have not already significantly elevated phosphorus levels.

Peter Jacobson and Mike Duval, in "Protecting Watershed of Minnesota Lakes with Private Forest Conservation Easements: A Suggested Strategy", stated that protecting the forests in these watersheds from development is critical for maintaining water quality in these lakes. While large areas of land in forested portions are under public ownership, a considerable amount is also owned by private individuals in some of our most critical lake watersheds. These parcels are increasingly being "split up" and sold. Modeling by MN DNR Fisheries research unit suggests that total phosphorus concentrations remain near natural background levels when less than 25% of a lake's watershed is disturbed. Tullibee "refuge" lakes have watersheds with less than 25% disturbed land uses and

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HA13 are good candidates for protection. Very deep lakes with exceptional water quality to support coldwater fish populations like tullibee were considered priorities by the report.

Minnesota DNR Fisheries researchers studied tullibee lakes and designated 68 lakes in Minnesota as the primary "refuge lakes" for tullibee. We focused our protection efforts of the highest quality tullibee lakes that will require modest to moderate levels of land protection to achieve 75% protection levels. Protecting the habitats of tullibee "refuge" lakes along the shoreline and surrounding forest lands is essential to a sustained sport fishery.

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

- H1 Protect priority land habitats
- H2 Protect critical shoreland of streams and lakes

#### Which two other plans are addressed in this proposal?

- Long Range Plan for Fisheries Management
- Other : Leech Lake River Comprehensive Watershed Management Plan (LLRCWMP)

#### Describe how your program will advance the indicators identified in the plans selected:

Protection of critical near-shore parcels, riparian areas and key forested parcels will be tracked by analyzing the land surface data of the watershed. If the tullibee "refuge" lake watershed is less than 25% disturbed by development or intensive land use and 75% of the land area of the watershed is permanently protected, these lakes can generally be assured to maintain high water quality that will support tullibee and resiliency against climate change. The LLRCWMP identifies priority lakes and watersheds which include a number tullibee refuge lake watersheds targeted within this program. A coordinated approach with LLRCWMP efforts will allow us to strategically work with area partners in achieving land protection goals within these priority watersheds. Additionally, the MN DNR AMA Plan identifies north central lakes as the priority focus for AMA's. Building on existing protected land complexes is an important criterion in prioritizing projects.

#### Which LSOHC section priorities are addressed in this proposal?

#### 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

# Describe how your program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife as indicated in the LSOHC priorities:

Priority private shoreline habitat and forested parcels totaling 1,647 acres, including 6,900 feet of shoreline, will be permanently protected from development and fragmentation through conservation easements. Riparian forest lands under easement will maintain healthy habitat complexes for upland and aquatic species; forest cover will enhance water quality habitat for tullibee lakes. Greater public access for wildlife and outdoors-related recreation will be attained through fee title acquisition, with properties being open to public for hunting and fishing. Conservation easement properties will protect fish habitat to ensure high quality fishing opportunities.

#### What other fund may contribute to this proposal?

• N/A

Yes

#### **Explain the leverage:**

This proposal includes the following funds as leverage to our OHF request:

• Landowner donation in the amount of \$450,000 in easement value is proposed based on results obtained in previous and current OHF-funded grants.

• Landowner, lake association and county donations in the amount of \$330,000 is proposed for fee acquisitions.

## 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.

Funding procured by NWLT and MLT through funding from this Outdoor Heritage Fund proposal will not supplant or substitute any previous funding from a non-Legacy fund used for the same purpose.

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

NWLT and MLT are long standing conservation organizations that do not depend on Outdoor Heritage Funds to sustain or maintain our work. The majority of financial support for both NWLT and MLT must be raised on an annual basis. The work in this proposal allows both organizations to enhance and accelerate ongoing conservation efforts in North Central Minnesota; these grant funds will not substitute for or supplant other funding sources.

The fee-title acquisitions will be owned and managed by either Aitkin, Cass, Crow Wing, or Hubbard County, or the MN DNR. The Minnesota Land Trust will hold the conservation easements acquired, which will be sustained through the best standards and practices for conservation easement stewardship. The Minnesota Land Trust is a nationally-accredited land trust with a very successful stewardship program that includes annual property monitoring, effective records management, addressing inquiries and interpretations, tracking changes in ownership, investigating potential violations and defending the easement in case of a true violation. In addition, MLT encourages landowners to undertake active ecological management of their properties, provides them with habitat management plans, and works with them over time to secure resources (expertise and funding) to undertake these activities over time.

#### **Actions to Maintain Project Outcomes**

Year	Source of Funds	Step 1	Step 2	Step 3
2027 and in	MLT Stewardship and	Annual monitoring of	Enforcement as	-
perpetuity	Enforcement Fund	easements	necessary	

#### Identify indicator species and associated quantities this habitat will typically support:

The information below provides general averages for tullibee in Minnesota. These averages are generated from available data and published sources, and do not capture the variability inherent in populations of fish. Natural populations, including healthy populations with good habitat, vary among locations and rise and fall within lakes and rivers. Most fish surveys conducted by MNDNR produce an index of abundance (catch per unit effort) rather than a population estimate. MNDNR provided the following detailed information -

Aquatic system: Tullibee lakes

Other criteria: Sampling does not provide a reliable number of individuals, but assessment netting provides an indicator of tullibee presence, and the presence of multiple year classes provides evidence that tullibee are continuing to reproduce.

## How will the program directly involve, engage, and benefit BIPOC (Black, Indigenous, People of Color) and diverse communities:

One of the Minnesota Land Trust and Northern Waters Land Trust's core public values is a commitment to diversity, equity, and inclusion. MLT and NWLT have engaged in numerous DEI conversations, all revolving around how we can better address this shared core value and establish positive relationships with all the communities in our north-central region. We believe that enduring conservation success depends on the active inclusion of people and partners whose lives and cultures are linked to the natural systems we seek to conserve. To date, we have demonstrated this commitment when possible, given the funding parameters and our unique role in working with private landowners, including numerous projects to protect camps. These camps include Camp Olson (YMCA) and Star Lake Wilderness Camp, which combine protection of high-quality habitat with serving a diversity of Minnesota youth.

Going forward, we intend to build on this engagement by using diversity, equity, and inclusion as a lens in project, partner, and contractor selection. In our program area, we intend to listen and seek out potential, authentic partnerships that can advance our goals of conserving the best of Minnesota's remaining habitats and, at the same time, being a more inclusive organization.

One related program we are exploring is a new "Ambassador Lands Program" which would connect willing conservation landowners to diverse community groups that need access to land for a variety of programming purposes, such as youth mentor hunts, cultural or ceremonial use, conservation employment training, bird banding, and much more. This would add greatly to the more universal public benefits of conserved lands such as wildlife habitat, clean water, and climate mitigation. Finally, we welcome more conversations with the LSOHC and conservation community about how these values can be better manifest in all our shared work going forward.

#### **Activity Details**

#### Requirements

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

Will county board or other local government approval <u>be formally sought\*\*</u> prior to acquisition, per 97A.056 subd 13(j)?

Yes

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

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

#### Land Use

#### Will there be planting of any crop on OHF land purchased or restored in this program?

No

**Is this land currently open for hunting and fishing?** No

#### Will the land be open for hunting and fishing after completion?

Yes

#### Describe any variation from the State of Minnesota regulations:

All fee title acquisitions conveyed to a public agency will be open to hunting and fishing.

#### Will the eased land be open for public use?

No

#### Are there currently trails or roads on any of the proposed acquisitions?

Yes

#### Describe the types of trails or roads and the allowable uses:

Most conservation easements are established on private lands, many of which have driveways, field roads and trails located on them. Often, the conservation easement permits the continued usage of established trails and roads so long as their use does not significantly impact the conservation values of the property. Creation of new roads/trails or expansion of existing ones is typically not allowed.

#### Will the trails or roads remain and uses continue to be allowed after OHF acquisition? Yes

#### How will maintenance and monitoring be accomplished?

Existing trails and roads on easement lands are identified in the project baseline report and will be monitored annually as part of the Land Trust's stewardship and enforcement protocols. Maintenance of permitted roads/trails in accordance with the terms of the easement will be the responsibility of the landowner.

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

### Will the land that you acquire (fee or easement) be restored or enhanced within this proposal's funding and availability?

No

#### Explain how, when, and source of the R/E work:

MLT - We do not anticipate that R/E work will be necessary for the significant majority of lands protected through conservation easement associated with this program. If needs are evident, we will amend the accomplishment plan to accommodate for those needs.

NWLT does not anticipate that R/E funds through this grant will not be needed for fee title acquisitions.

#### **Other OHF Appropriation Awards**

#### Have you received OHF dollars in the past through LSOHC?

Yes

Approp Year	Approp Amount Received	Amount Spent to Date	Leverage Reported in AP	Leverage Realized to Date	Acres Affected in AP	Acres Affected to Date	Complete/Final Report Approved?
2020	\$2,814,000	\$9,600	\$228,700	-	456	0	No
2019	\$3,230,000	\$1,642,900	\$510,500	\$75,300	636	660	No
2018	\$2,801,000	\$1,980,000	\$427,200	\$943,300	485	441	No
2017	\$1,716,000	\$1,685,000	\$300,000	\$307,000	400	690	No
2016	\$1,425,000	\$1,258,300	\$535,000	\$1,157,000	429	635	No
2014	\$2,130,000	\$1,786,200	\$798,700	\$956,000	505	765	Yes

#### Timeline

Activity Name	Estimated Completion Date
Landowner outreach, consultation, technical assistance and	Ongoing through June 2026
easement preparation	
Protection of 547 acres via fee acquisition; conveyance to a	June 2026
county in our service area (Aitkin, Cass, Crow Wing, or	
Hubbard County) or to Minnesota Department of Natural	
Resources	
Protection of 1,100 acres of targeted parcels via	June 2026
conservation easement.	

#### **Grand Totals Across All Partnerships**

Item	Funding Request	Antic. Leverage	Leverage Source	Total
Personnel	\$403,000	-	-	\$403,000
Contracts	\$82,000	-	-	\$82,000
Fee Acquisition w/	\$3,300,000	\$330,000	-, County, lake	\$3,630,000
PILT			associations,	
			landowners	
Fee Acquisition w/o	-	-	-	-
PILT				
Easement Acquisition	\$4,500,000	\$450,000	Landowner donation	\$4,950,000
			of easement value.	
Easement	\$240,000	-	-	\$240,000
Stewardship				
Travel	\$27,000	-	-	\$27,000
Professional Services	\$415,000	-	-	\$415,000
Direct Support	\$137,000	-	-	\$137,000
Services				
DNR Land Acquisition	\$40,000	-	-	\$40,000
Costs				
Capital Equipment	-	-	-	-
Other	-	-	-	-
Equipment/Tools				
Supplies/Materials	\$12,000	-	-	\$12,000
DNR IDP	\$10,000	-	-	\$10,000
Grand Total	\$9,166,000	\$780,000	-	\$9,946,000

#### Partner: Northern Waters Land Trust

#### Totals

Item	Funding Request	Antic. Leverage	Leverage Source	Total
Personnel	\$175,000	-	-	\$175,000
Contracts	-	-	-	-
Fee Acquisition w/ PILT	\$3,300,000	\$330,000	County, lake associations, landowners	\$3,630,000
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	-	-	-	-
Easement Stewardship	-	-	-	-
Travel	\$12,000	-	-	\$12,000
Professional Services	\$123,000	-	-	\$123,000
Direct Support Services	\$75,000	-	-	\$75,000
DNR Land Acquisition Costs	\$40,000	-	-	\$40,000
Capital Equipment	-	-	-	-
Other Equipment/Tools	-	-	-	-
Supplies/Materials	\$9,000	-	-	\$9,000
DNR IDP	\$10,000	-	-	\$10,000
Grand Total	\$3,744,000	\$330,000	-	\$4,074,000

#### Personnel

Position	Annual FTE	Years Working	Funding Request	Antic. Leverage	Leverage Source	Total
NWLT Land	1.02	4.0	175000	-	-	\$175,000
Protection Staff						

#### **Partner: Minnesota Land Trust**

#### Totals

Item	Funding Request	Antic. Leverage	Leverage Source	Total
Personnel	\$228,000	-	-	\$228,000
Contracts	\$82,000	-	-	\$82,000
Fee Acquisition w/ PILT	-	-	-	-
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	\$4,500,000	\$450,000	Landowner donation of easement value.	\$4,950,000
Easement Stewardship	\$240,000	-	-	\$240,000
Travel	\$15,000	-	-	\$15,000
Professional Services	\$292,000	-	-	\$292,000
Direct Support Services	\$62,000	-	-	\$62,000
DNR Land Acquisition Costs	-	-	-	-
Capital Equipment	-	-	-	-
Other Equipment/Tools	-	-	-	-
Supplies/Materials	\$3,000	-	-	\$3,000
DNR IDP	-	-	-	-
Grand Total	\$5,422,000	\$450,000	-	\$5,872,000

#### Personnel

Position	Annual FTE	Years Working	Funding Request	Antic. Leverage	Leverage Source	Total
MLT Land	0.6	4.0	228000	-	-	\$228,000
Protection Staff						

Amount of Request: \$9,166,000 Amount of Leverage: \$780,000 Leverage as a percent of the Request: 8.51% DSS + Personnel: \$540,000 As a % of the total request: 5.89% Easement Stewardship: \$240,000 As a % of the Easement Acquisition: 5.33%

#### Describe and explain leverage source and confirmation of funds:

NWLT plans to cover any expenses not covered by this grant through general operating income. MLT encourages landowners to fully or partially donate the value of conservation easements to the program; the leverage amount is a conservative estimate of value

we expect to see donated by landowners.

#### Does this proposal have the ability to be scalable?

Yes

#### If the project received 70% of the requested funding

**Describe how the scaling would affect acres/activities and if not proportionately reduced, why?** Outputs would be reduced by 30%. With this reduction, NWLT ensures that it would secure 3-4 priority parcels in fee title acquisition, totaling to 382.9 acres protected. MLT's budget would enable a proportionate amount of conservation easement acres.

### Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

Personnel and DSS will be scaled, but moderately less than proportional. Some costs are fixed (landowner recruitment; grant management) and must occur regardless of grant amount. Projects can fail midstream after investment of time. Donation of easement value (high in this program) can inflate the number of projects pursued/completed.

#### If the project received 50% of the requested funding

**Describe how the scaling would affect acres/activities and if not proportionately reduced, why?** Outputs would be reduced by 50%. With this reduction, NWLT ensures that it would secure 2-3 priority parcel in fee title acquisition, totaling to 273.5 acres protected. MLT's budget would enable a proportionate amount of conservation easement acres.

### Describe how personnel and DSS expenses would be adjusted and if not proportionately reduced, why?

Personnel and DSS will be scaled, but moderately less than proportional. Some costs are fixed (landowner recruitment; grant management) and must occur regardless of grant amount. Projects can fail midstream after investment of time. Donation of easement value (high in this program) can inflate the number of projects pursued/completed.

#### Personnel

#### Has funding for these positions been requested in the past? Yes

### Please explain the overlap of past and future staffing and position levels previously received and how that is coordinated over multiple years?

NWLT estimates the personnel costs for fee title acquisition, conservation easement outreach and grant administration activities to accomplish the specific outcomes for each grant.

MLT - FTEs listed in the proposal are a coarse estimate of the personnel time required to produce the grant deliverables put forward in this proposal. An array of staff draw from these funds for legal work, negotiating with landowners, crafting of conservation easements, writing baseline reports and managing the grant.

#### Contracts

#### What is included in the contracts line?

MLT - Writing of habitat management plans by vendors, posting of easement boundaries.

#### **Fee Acquisition**

#### What is the anticipated number of fee title acquisition transactions?

NWLT expects to complete 6 fee title acquisitions through this proposal.

#### **Easement Stewardship**

### What is the number of easements anticipated, cost per easement for stewardship, and explain how that amount is calculated?

The average cost per easement to fund the Minnesota Land Trust's perpetual monitoring and enforcement obligations is \$24,000, although in extraordinary circumstances a larger amount may be warranted. This figure is derived from MLT's detailed stewardship funding "cost analysis" which is consistent with Land Trust Accreditation standards. MLT shares periodic updates to this cost analysis with LSOHC staff.

#### Travel

**Does the amount in the travel line include equipment/vehicle rental?** Yes

**Explain the amount in the travel line outside of traditional travel costs of mileage, food, and lodging** Minnesota Land Trust staff regularly rents vehicles for grant-related purposes, which is a significant cost savings over use of personal vehicles.

### I understand and agree that lodging, meals, and mileage must comply with the current MMB Commissioner Plan:

Yes

#### **Direct Support Services**

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

MLT - In a process that was approved by the DNR on March 17, 2017, Minnesota Land Trust determined our direct support services rate to include all of the allowable direct and necessary expenditures that are not captured in other line items in the budget, which is similar to the Land Trust's proposed federal indirect rate. We will apply this DNR-approved rate only to personnel expenses to determine the total amount of direct support services.

NWLT - In a process approved by MNDNR on July 27, 2020, Northern Waters Land Trust used a simplified allocation methodology that resulted in MNDNR approving an indirect rate of allowable expenses. We anticipate a similar rate for this proposal.

#### **Federal Funds**

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

No

#### **Output Tables**

#### Acres by Resource Type (Table 1)

Туре	Wetland	Prairie	Forest	Habitat	Total Acres
Restore	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	547	547
Protect in Fee w/o State PILT Liability	0	0	0	0	0
Protect in Easement	0	0	0	1,100	1,100
Enhance	0	0	0	0	0
Total	0	0	0	1,647	1,647

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

Туре	Wetland	Prairie	Forest	Habitat	Total Funding
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$3,547,000	\$3,547,000
Protect in Fee w/o State PILT Liability	-	-	-	-	-
Protect in Easement	-	-	-	\$5,619,000	\$5,619,000
Enhance	-	-	-	-	-
Total	-	-	-	\$9,166,000	\$9,166,000

#### Acres within each Ecological Section (Table 3)

Туре	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	<b>Total Acres</b>
Restore	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	547	547
Protect in Fee w/o State PILT Liability	0	0	0	0	0	0
Protect in Easement	0	0	0	0	1,100	1,100
Enhance	0	0	0	0	0	0
Total	0	0	0	0	1,647	1,647

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

Туре	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest	Total Funding
Restore	-	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	\$3,547,000	\$3,547,000
Protect in Fee w/o State PILT Liability	-	-	-	-	-	-
Protect in Easement	-	-	-	-	\$5,619,000	\$5,619,000
Enhance	-	-	-	-	-	-
Total	-	-	-	-	\$9,166,000	\$9,166,000

#### Average Cost per Acre by Resource Type (Table 5)

Туре	Wetland	Prairie	Forest	Habitat
Restore	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	\$6,484
Protect in Fee w/o State PILT Liability	-	-	-	-
Protect in Easement	-	-	-	\$5,108
Enhance	-	-	-	-

#### Average Cost per Acre by Ecological Section (Table 6)

Туре	Metro/Urban	Forest/Prairie	SE Forest	Prairie	N. Forest
Restore	-	-	-	-	-
Protect in Fee with State PILT Liability	-	-	-	-	\$6,484
Protect in Fee w/o State	-	-	-	-	-

PILT Liability					TIA 10
Protect in Easement	-	-	-	-	\$5,108
Enhance	-	-	-	-	-

#### **Target Lake/Stream/River Feet or Miles**

Fee title acquisition 6,900 shoreline feet.

#### **Outcomes**

#### Programs in the northern forest region:

• Forestlands are protected from development and fragmentation ~ Private shoreline habitat and forested parcels totaling 1,647 acres and 6,900 feet of shoreline will be permanently protected from development and fragmentation through conservation easements. Riparian forest lands under easement will maintain healthy habitat complexes for upland and aquatic species; forest cover will enhance water quality habitat for tullibee lakes. Conservation easement properties will protect fish habitat to ensure high quality fishing opportunities. Greater public access for wildlife and outdoors-related recreation will be attained through fee-title acquisition of properties to be conveyed to either Cass County as forest management lands or to MN DNR Fish & Wildlife.

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#### **Parcels**

Sign-up Criteria? Yes

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

Criteria based scoring systems provide a standardized set of data from which multiple projects can be compared relative to each other and individual projects can be compared against a baseline. Scoring systems are a set of data, not a final, complete decision making

tool. Local expertise and experience, programmatic goals, timelines, available resources, capacity, and other more subjective factors might also come into play in project selection and decision making.

MLT and LLAWF accept proposals via an RFP process from targeted landowners with properties on prioritized tullibee lakes. A technical team of experts scores and ranks each project proposal and identifies priorities from those submitted.

The attached scoresheet provides an approach to criteria based scoring that considers: 1) Ecological Integrity/Viability as current status; 2) Threat/Urgency as a future scenario if protection is not afforded; and 3) Cost reflecting the overall value realized through the

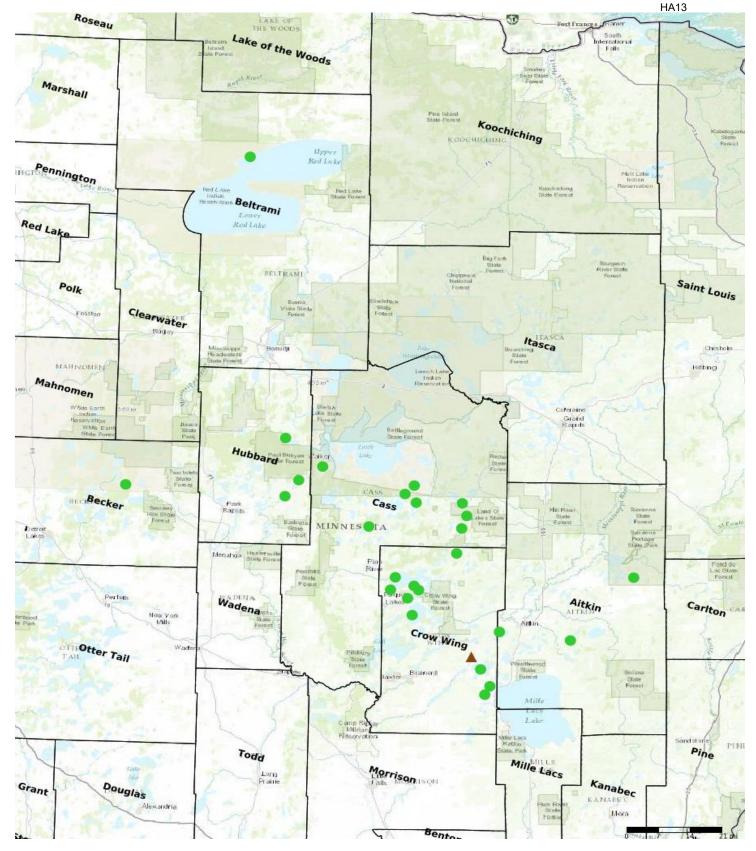
acquisition of a conservation easement (including a reflection of donative value). Ecological Integrity weights property size, condition, and context equally (at least as an initial starting point). The three primary factors, when taken together, provide a good estimate of

long-term viability for biodiversity at the site: 1) Size of the parcel to be protected, 2) Condition of the habitat on the parcel, and 3) its Landscape context (both from a protection and ecological standpoint).

Name	County	TRDS	Acres	Est Cost	Existing Protection
Long Lake	Aitkin	04625210	0	\$0	No
Round Lake	Aitkin	04923225	0	\$0	No
Cedar Lake	Aitkin	04727231	0	\$0	No
Long Lake	Cass	14231233	0	\$0	No
Long Lake	Cass	14128223	0	\$0	No
Girl Lake	Cass	14128233	0	\$0	No
Deep Portage	Cass	13929207	0	\$0	No
Cooper	Cass	14028211	0	\$0	No
Bass Lake	Cass	14026227	0	\$0	No
Washburn Lake	Cass	13926209	0	\$0	No
Thunder Lake	Cass	14026209	0	\$0	No
NWLT - Cedar Lake	Crow Wing	04628231	248	\$1,300,000	No
Whitefish Lake	Crow Wing	13728207	0	\$0	No
Star Lake	Crow Wing	13728225	0	\$0	No
Roosevelt Lake	Crow Wing	13826208	0	\$0	No
Pelican Lake	Crow Wing	13628227	0	\$0	No
Ossawinamakee Lake	Crow Wing	13628204	0	\$0	No

#### **Protect Parcels**

				HA13
Kenny Lake	Crow Wing	04428202	0	\$0 No
Crooked Lake	Crow Wing	04528216	0	\$0 No
Borden Lake	Crow Wing	04428215	0	\$0 No
Big Trout	Crow Wing	13728223	0	\$0 No
Lower Hay Lake	Crow Wing	13729225	0	\$0 No
Eleventh Crow Wing Lake	Hubbard	14132215	0	\$0 No
Spearhead Lake	Hubbard	15434223	0	\$0 No
Kabekona Lake	Hubbard	14332230	0	\$0 No
Ninth Crow Wing Lake	Hubbard	14032206	0	\$0 No
Big Sand Lake	Hubbard	14138228	0	\$0 No





#### Parcel Map Fisheries Habitat Protection on Strategic North Central Minnesota Lakes - Phase VIII (Data Generated From Parcel List)

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### Fisheries Habitat Protection on Strategic North Central Minnesota Lakes Phase 8

# The Northern Waters Land Trust and the Minnesota Land Trust are requesting \$9,166,000 for the eighth phase of the Fisheries Habitat Protection on Strategic North Central Minnesota Lakes Program.

During the eighth phase of this program, the Northern Waters Land Trust and the Minnesota Land Trust will protect 1,647 acres (1,100 acres of permanent conservation easement and 547 acres fee-title acquisition) of high priority habitat and 1.3 miles of shoreline.

Our efforts will be focused on 15 tullibee refuge lakes and their watersheds. Applications to our easement program will be evaluated and ranked to maximize conservation benefit, leveraging \$780,000 in landowner, lake association, and supporting agency contributions.

#### How Does the Program Support State Goals?

This program targets critical near-shore habitats, riparian areas, and key forested parcels on 15 priority tullibee "refuge" lakes prioritized by the Clean Water Critical Habitat technical committee. This work is in line with the goals set out in the *Long Range Plan for Fisheries Management*, and the *Leech Lake River Comprehensive Watershed Management Plan*.

### **Proposal Facts**

Project Partners: Northern Waters Land Trust, Minnesota Land Trust

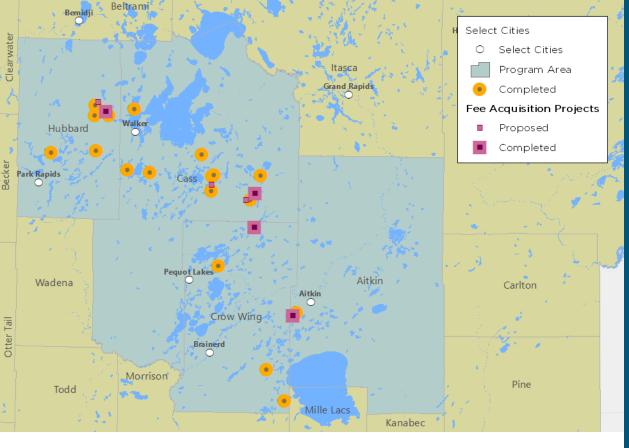
Request	\$9,166,000				
Leverage	\$780,000				
Acres protected	1,647				
Conservation e	asements 1,100				
Fee-title	547				
For more information:					

Annie Johnson Northern Waters Land Trust Grants Manager & Conservation Specialist (320) 248-2320 AnnieJ@nwlt-mn.org



#### What Are the Outcomes?

- Private forested parcels totaling 1,647 acres and more than 1.3 miles of shoreline habitat will be protected to the benefit of tullibee and their lake systems.
- Forest lands will maintain healthy habitat and enhance water quality.
- Public access for wildlife and outdoors-related recreation will be attained through 547 acres of feetitle acquisition.



#### What has Been Accomplished to Date in the Program?

#### Complete (Phases I, 2, & 3):

Completed 22 projects protecting 3,367 acres (3,235 acres conservation easements / 132 acres fee) of habitat and 16.9 miles of shoreline. Leverage in the amount of \$3,604,200 was realized.

#### In Progress (Phases 4, 5, & 6):

Completed 9 projects protecting 1,102 acres of habitat. We have largely subscribed our grants related to conservation easements and are on track to meet or exceed our goals. Fee title acquisition projects are on target and lands will be conveyed to DNR Fisheries, Cass County, and DNR Forestry.

#### Phase 7 (Planned):

Starting in July, we will begin using Phase 7 of the program to protect 615 acres and 3,168 ft of shoreline.

The Fisheries Habitat Protection on Strategic North Central Minnesota Lakes Program has generated considerable interest among landowners in protecting these places. **Collectively these landowners have contributed over 4.6 million in easement value as leverage to the \$9.4 million investment from the Outdoor Heritage Fund.** 



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AND TRUST

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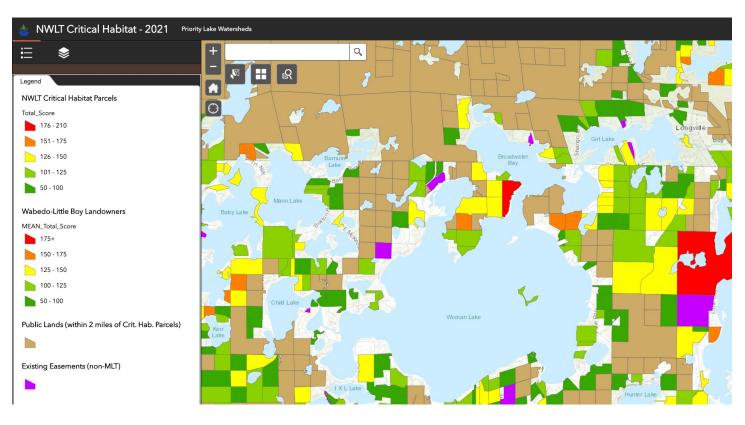
Northern Waters Land Trust 800 Minnesota Ave. W PO Box 124 Walker, MN 56484

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### Fisheries Habitat Protection on Strategic North Central Minnesota Lakes Phase 8



Northern Waters Land Trust and Minnesota Land Trust utilize a multi-criteria scoring system to prioritize land protection opportunities in the Fisheries Program Area. Each parcel is scored based on four main factors: Fisheries Program Requirements, Ecological Factors, Threat/Urgency, and Cost. The attached scoresheet describes and quantifies the criteria included.

In conjunction with this scoring system, we have developed a user-friendly Clean Water Critical Habitat map. This resource identifies properties within cold water refuge lake watersheds and utilizes a GIS analysis to score their priority for conservation. The higher the score, the greater the priority for conservation action. The map image highlights the parcel scoring. This scoring tool also provides a quick visual context of how a parcel may build on a larger complex of protected lands by showing public lands and existing easements.

#### Clean Water Critical Habitat Project Scoresheet

Program Requirements	
In a tullibee lake watershed?	Yes or No
In Aitkin, Cass, Crow Wing or Hubbard County?	Yes or No
At least 20 acres protected in Conservation Easement?	Yes or No
Others?	Yes or No

1. ECOLOGICAL FACT	ORS			
Size/Abundance of Habitat (1/3 of Overall Ecological Score)				
Criteria	Score	Max Points	Draft Guidelines -	
	0		10 points for 0 - 2,000 feet	
			15 points for 2,001 - 5,000 feet	
Feet of Shoreline		30	20 points for 5,001 - 10,000 feet	
			25 points for 10,001 - 20,000 feet	
			30 points for $\geq$ 20,000 feet	
	0		10 points for 10 - 30 acres	
			20 points for 31 - 80 acres	
Parcel Acres to be		60	30 points for 81 - 160 acres	
Protected by Easement		00	40 points for 161 - 300 acres	
			50 points for 301 - 400 acres	
			60 points for ≥ 401 acres	
	0	Size/Abundance Subtotal Score		

Quality/Condition of I	Quality/Condition of Resource (1/3 of Overall Ecological Score)				
Criteria	Score	Max Points	Draft Guidelines -		
Designated Sensitive			10 point for $\leq$ 33%		
Shoreland	0	30	20 points for 34 - 66%		
Shoreland			30 points for 67 - 100%		
			0 points for $\geq$ 31% developed		
% Property Developed		30	10 points for 21 - 30% developed		
(more development, less	0		20 points for 11 - 20% developed		
value)			30 points for 0 - 10% developed		
			Quality habitat on property		
			0 points - Highly impacted (trails, logging, structures etc.)		
			10 points - Moderately impacted (significant number of trails, land		
Site visit/Aerial evaluation	0	30	disturbance)		
			20 points - Mostly in natural state (limited natural foot trails, good		
			forest management, no structures etc.)		
			30 points - Undisturbed natural state		
	0	Quality/Condition of Resource Score			

Landscape Context (1	Landscape Context (1/3 of Overall Ecological Score)				
Criteria	Score	Max Points	Draft Guidelines -		
Adjoining protostad land	0	30	All sides=30, One side=10, No=0 Public land would include tribal		
Adjoining protected land	0	30	land.		
Near, but not adjoning,			10 point for 500 - 6,000 acres		
protected land within 3	0	30	20 points for 6,001 - 12,000 acres		
miles of the property			30 points for 12,001 - 18,000 acres		
			0 points for not in WAN		
			10 points Low		
Wildlife Action Network	0	30	15 points Low-Medium		
Whatte Action Network	0	50	20 points Medium		
			25 points Medium High		
			30 points High		
	0	Landscape Context su	btotal score		
	0	Ecological Total = (Size + Quality + Landscape)/3.			

2. Threat/Urgency	2. Threat/Urgency					
Criteria	Score	Max Points	Draft Guidelines -			
	0	45	45 points for ≥ 31% developed			
Urgency - Disturbance in Minor Watershed (more			30 points for 21 - 30% developed			
disturbance, higher score)	U		20 points for 11 - 20% developed			
uisturbance, nigher scorej			10 points for 0 - 10% developed			
Risk Clasification from			10 = Vigilance			
Water Plans (more risk,	0	45	20 = Protection			
higher score)	U	45	30 = Risk			
			45 = High Risk			
	0	Threat Urgency Total				

3. Cost - Consider after inital application screening and landowner knowledge					
Criteria	Score	Max Points	Draft Guidelines -		
Cast (damating up has (Bang	Bang 0	90	90 = 90 - 100% donation		
			70 = 51 - 89% donation		
Cost/donative value (Bang			50 = 26 - 50% donation		
for the buck)			30 = 5 - 25% donation		
			0 = 0 - 4% donation		

Landscape Context	0
Threat/Urgency	0
Cost/Donative Value	0
TOTAL SCORE	0