# Environment and Natural Resources Trust Fund 2011-2012 Request for Proposals (RFP)

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Subd: 05d  Project Title: Itasca County Sensitive Lakeshore Identification
Category: C3+4. Technical Assistance and Community-Based Planning
Total Project Budget: \$ \$160,000
Proposed Project Time Period for the Funding Requested: 2 yrs, July 2011 - June 2013  Other Non-State Funds (secured): 5
Summary:
The identification of sensitive lakeshores within Itasca County through intensive biological surveys conducted on lakes, calibrating a Rapid Assessment Model which will be applied to a broader set of lakes.
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Sponsoring Organization: Itasca County Soil and Water Conservation District
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Grand Rapids MN 55744
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Email jim.gustafson@itascaswcd.org
Web Ad www.itascaswcd.org
Location:
Region: NE
Ecological Section: No. Minnesota Drift and Lake Plains (212N)
County Name: Itasca
City / Township:

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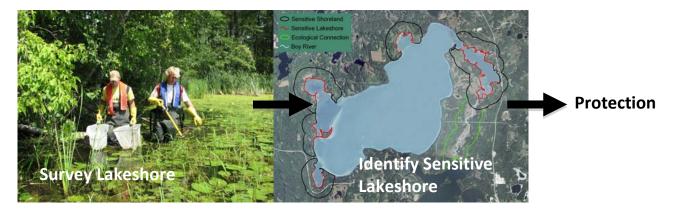
#### **2011-2012 MAIN PROPOSAL**

#### PROJECT TITLE: Sensitive Lakeshore Identification in Itasca County

To aid in the protection of high-value lake ecosystems in Minnesota, surveys to identify sensitive lakeshore and restorable shoreline will be conducted in collaboration with state and local partners.

#### I. PROJECT STATEMENT

The major impetus for this initiative is the need to better protect and manage functional lake ecosystems in Minnesota. There is widespread concern about the consequences of poorly planned development on water quality and fish and wildlife habitat. Given the increased demands for water and shoreland, continued habitat fragmentation, loss of species diversity, and exotic species expansion, protection of sensitive lakeshores is critical.



Data on the distribution and ecology of rare plants and animals, native plant communities, and vulnerable lakeshores are needed to prioritize actions to conserve and manage lake ecosystems. As Minnesota assesses the status of its natural resources, develops plans for priority resources, and invests millions of dollars in resource protection efforts, information that helps target conservation decisions along lakeshores will be vital. This project's intent is to deliver information specifically for that need. This county/state initiative already has:

- Developed objective, **science-based** criteria to identify sensitive lakeshores on large lakes using detailed on-site biological surveys and use of an ecological model;
- Completed detailed **biological surveys** and **identified sensitive areas** on 16 Cass County lakes, and by July 2011 will deliver interpretive products for 4% of Minnesota's largest lakes;
- Identified shoreland for conservation easement and purchase;
- Developed shoreland **conservation ordinances** that will provide greater protection of sensitive shoreland;
- Worked with state regulators to provide **additional safeguards** for sensitive lakeshore, including the recently promulgated Minnesota Rules, part 6280.0250 [Standards for Aquatic Plant Management Permit Issuance]; and
- Initiated a project to **restore shorelines** to more natural conditions in the Cass County lakes that sensitive lakeshore were identified [will use federal funds via a State Wildlife Grant].

The primary focus of this proposal is to identify priority areas in northern Minnesota for shoreland reclassification and potential purchase or conservation easement, as well as provide interpretive products to shoreland property owners and state and local governments, and assist with regional planning efforts.

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#### **II. DESCRIPTION OF PROJECT RESULTS**

Result 1: Assessment of at least 20 Itasca County Lakes Budget: \$130,000

Sensitive lakeshore assessments will target a minimum of 20 high priority lakes in northern Minnesota selected by Itasca County. Two approaches from Minnesota's Sensitive Lakeshore Survey Protocol will be used. First, detailed on-site biological survey work will be completed on a few selected lakes. Second, **a new, fast, more efficient method** based on the protocol's Rapid Assessment Model will be used to identify sensitive lakeshores on the remaining high priority lakes. Itasca County can then use this model on any of their moderate to large lakes.

Deliverable	Completion Date
Loon Nesting Surveys will be enhanced and completed on selected	Nov 2012
lakes	
2. Fish and Aquatic Plant Surveys completed on selected lakes	June 2013
3. County will compile available geomorphic GIS data for use with the	Nov 2012
Rapid Assessment Model	
4. Identify sensitive lakeshores for all high priority lakes selected	June 2013

Result 2: *Identify Restorable Shorelines and Guide Conservation*By working cooperatively with lake associations and other groups to identify restorable shorelines, improve capacity of project outputs to effectively inform state and local government decisions that impact the conservation and management of lake ecosystems. Itasca County Environmental Services would update zoning and ordinances to provide higher standards for new developments and additional protection to sensitive shoreland.

Deliverable	Completion Date
Restorable shoreline identified for selected lakes	June 2013
2. Work with lake associations, riparian property owners, and others to deliver targeted conservation and restoration efforts to sensitive lakeshores	June 2013
3. Engage in land use planning and zoning	June 2013

# III. PROJECT STRATEGY

#### A. Project Team/Partners

Project Manager: Jim Gustafson, Itasca County Soil and Water Conservation District *Partners:* Itasca County, Environmental Services Department, Don Dewey, Director; Leech Lake Reservation, Division of Resources Management; U.S.F.S., Chippewa National Forest, Fish and Wildlife Program; Itasca Water Legacy Partnership, and the DNR.

DNR Technical Services would be provided by Paul Radomski, Research Scientist; Donna Perleberg, Aquatic Plant Ecologist; Pam Perry, Nongame Wildlife Lake Specialist; Kristin Carlson, Nongame Wildlife Lake Specialist; Kevin Woizeschke, Nongame Wildlife Lake Specialist; and Stephanie Loso, Aquatic Biologist.

#### **B. Timeline Requirements**

This is a two-year project ending on June 30, 2013.

## C. Long-Term Strategy

This project is a related to the LCCMR funded project on 'Intra-Lake Zoning to Protect Sensitive Lakeshores' [ML 2007, Chap. 30, Sec. 2, Subd. 5(h) and MN Laws 2008, Chapter 367, Section 2, Subd. 4(e)]. Similar work in Crow Wing County has been initiated with a State Wildlife Grant (federal funds). Over the long-term, a mix of funding sources would be used to conduct future sensitive lakeshore assessments in lake-rich counties around the state.

# 2011-2012 Detailed Project Budget

IV. TOTAL PROJECT REQUEST BUDGET (2 years)

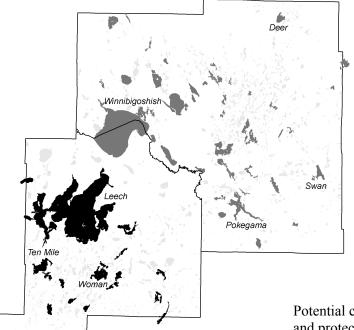
BUDGET ITEM		AMOUNT	
Personnel:	\$	-	
Itasca County SWCD staff (Administration, 100% salary) 0.2 FTE	\$	16,000	
Itasca County Environmental Service staff (Admin, 100% salary) 0.15 FTE	\$	13,000	
Contracts: DNR, Sensitive Lakeshore Identification (aprox. 1.5 FTE from ETF\$)			
Intensive Biological surveys, calibration and application of Rapid Assesment Model			
on larger set of lakes	\$	130,000	
Equipment/Tools/Supplies: printing costs	\$	1,000	
Acquisition (Fee Title or Permanent Easements):	\$	-	
Travel:	\$	-	
Additional Budget Items:	\$	-	
TOTAL ENVIRONMENT & NATURAL RESOURCES TRUST FUND			
REQUEST REQUEST	Γ \$	160,000	

## **V. OTHER FUNDS**

SOURCE OF FUNDS	AMOUNT	<u>Status</u>
Other Non-State \$ Being Applied to Project During Project Period:	\$ -	
Other State \$ Being Applied to Project During Project Period: Federal funding		Pending
via State Wildlife Grant (per year) (up to 3.0 FTE expected)	\$ 90,000	
Game & Fish (per year)		Pending
	\$ 15,000	
State (Nongame funds; per year)		Pending
	\$ 10,000	
State (Heritage funds; per year)		Pending
	\$ 10,000	
In-kind Services During Project Period:	\$ -	
Remaining \$ from Current Trust Fund Appropriation (if applicable):		
	\$ -	
Funding History: Federal funding (State Wildlife Grants)		
	\$ 325,000	
State (Heritage and Game & Fish funds)		
	\$ 350,000	
State funding: LCCMR \$110,000 (2007; MN Laws 2007, Chapter 30, Section 2,		
Subd. 5h) and \$125,000 (2008; MN Laws 2008, Chapter 367, Section 2, Subd. 4e)	\$ 235,000	

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Sensitive Lakeshore Identification study lakes and potential Itasca County study lakes. The 17 lakes in Cass County (shaded) are part of ongoing LCCMR-funded study; shaded lakes in Itasca County are potential study lakes.

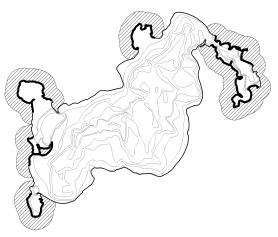


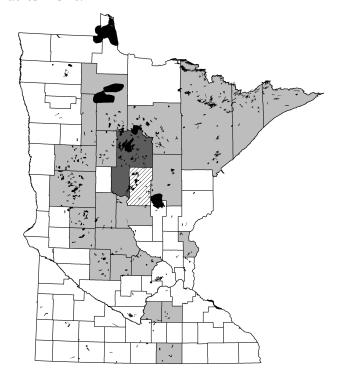
# **Itasca County Large Lakes:**

Number = 45 Shoreline in Private Ownership = 70% Private Shoreline Miles = 420 Total Lake Acreage = 76,000

Potential counties for sensitive lakeshore assessments and protection. Cass County (dark shaded) is part of ongoing study. Crow Wing County (diagonal hatch) surveys will take place beginning in spring 2010. Light-shaded counties have the greatest number of lakes >850 acres in size.

Example of product: Ten Mile Lake, Cass County, with identified Sensitive Shoreline (dark line) and Potential Resource Protection Districts (diagonal hatch).





### **Project Manager Qualifications & Organization Description**

Organization Description: Itasca County Soil and Water Conservation District. Mission Statement: he Mission of the Itasca County Soil and Water Conservation District (SWCD) is to provide a local organization through which landowners and operators, local units of government and state and federal agencies can cooperate to improve, develop and conserve soil, water, wildlife and recreational resources.

The SWCD will encourage adoption of proper land use practices as needed, recognizing that these measures are essential for maintenace of permanent and prosperous natural resource-based industries in Itasca County.

The Itasca SWCD is a local agency that provides access to conservation and resource management services. In cooperation with federal, state and local agencies, the District provides technical assistance, cost-sharing and natural resource management information and education. Urban and rural landowners, businesses, industry and agencies may request these services.

Project Manager: Jim Gustafson, Itasca County SWCD Manager

Itasca County SWCD has been proactive in surface water assessments since the early 1990s and has successfully accomplished a majority of its surface water monitoring and projects through state grants. Itasca SWCD, under the management of Jim Gustafson, has cooperated with MPCA on water monitoring contracts including the Jessie Lake Clean Water Partnership and is currently working on the Jessie Lake Total Maximum Daily Load Study, two Bigfork River Watershed SWAGs (47 lakes and 5 stream sites), and the Deer and Pokegama Lake Clean Water Partnership study. These contracts and their activities are similar to the proposed project and have given staff the necessary experience to successfully complete this project.

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