

**Environment and Natural Resources Trust Fund
2012-2013 Request for Proposals (RFP)**

Project Title:

ENRTF ID: 161-I

Addressing Wastewater Problems In North Central Minnesota

Topic Area: I. Water Resources

Total Project Budget: \$ 144,123

Proposed Project Time Period for the Funding Requested: 2 yrs. July 2013 - June 2015

Other Non-State Funds: \$ 0

Summary:

Building collaborative wastewater management systems to sustain a healthy environment across Leech Lake and Red Lake Reservations and Beltrami, Cass, Itasca, and Hubbard Counties by delivering risk based education.

Name: Shirley Nordrum

Sponsoring Organization: U of MN Extension

Address: PO Box 180
Cass Lake MN 56633

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Location

Region: Central

County Name: Beltrami, Cass, Hubbard, Itasca

City / Township:

_____ Funding Priorities	_____ Multiple Benefits	_____ Outcomes	_____ Knowledge Base
_____ Extent of Impact	_____ Innovation	_____ Scientific/Tech Basis	_____ Urgency
_____ Capacity Readiness	_____ Leverage	_____ Employment	_____ TOTAL _____%

LCCMR Proposal

Project Title: Addressing Wastewater Problems In North Central Minnesota

LCCMR 2012-2013 Funding Priority: #4. Enhancement of public education, awareness, and understanding necessary for the protection, conservation, restoration, and enhancement of air, land, water, forests, fish, wildlife, and other natural resources.

Environment and Natural Resource Trust Fund \$ Request: \$ 144,123.00

Proposed Project Time Period of the Funding Request: July 2013 - June 2015

Other Non-State Funds - specific to these proposed activities:

Project Manager: First Name: Shirley Last Name: Nordrum

Sponsoring Organization: University of Minnesota Extension

Mailing Address: 6945 Littlewolf Road, P.O. Box 180 Cass Lake, MN 56633-3115

Phone number: 218-335-4258

Email: nordr006@umn.edu

Location: Leech Lake Indian Reservation, Beltrami, Cass, Itasca and Hubbard Counties

Project Summary (30 words):

Building collaborative wastewater management systems to sustain a healthy environment across Leech Lake and Red Lake Reservations and Beltrami, Cass, Itasca, and Hubbard Counties by delivering risk based education.

Project Title: Addressing Wastewater Problems In North Central Minnesota

I. PROJECT STATEMENT

Issues related to water and water quality, are of great importance to Minnesotans. Lack of understanding about proper operation and maintenance by homeowners results in septic system failures. Release of untreated wastewater from failed septic systems poses risks to public health, the environment and the economy that are too high to ignore.

There are approximately 73,510 septic systems with a potential to impact over 577,721 surface acres within the Leech Lake and Red Lake Reservations, Beltrami, Cass, Hubbard and Itasca counties area University of Minnesota Extension proposes a plan of work that will provide the knowledge, skills, attitudes and motivation to work individually and collectively toward sustaining a healthy natural and social environment.

This project proposes to:

1. Analyze and deliver risk management programs that will identify environmental and public health care costs associated with non-functioning septic systems.
2. Create a multi-jurisdictional, multi-discipline forum for federal, state, tribal and local professionals to gather and discuss collective solutions to wastewater management.
3. Host a Water Summit bringing together organizations providing drinking water and wastewater assistance to local units of government and small communities.
4. All three activities will be evaluated to identify impacts, potential limitations, and strengths of this project.

Activity 1. Analyzing and Delivering Risk Management Programming. Budget \$ 72,776.00

Complete a comprehensive analysis of private and public fiscal risks and deliver risk management programming on the economic, public health and natural resource risks and costs associated with poor maintenance and overuse of septic systems to citizens and federal, state, tribal and local natural resource and environmental professionals through a series of workshops and small discussion groups. Delivering risk management programs will provide sound decision-making guidance to citizens and professionals resulting in financial, environmental and health savings.

OUTCOME	COMPLETION DATE
Identify costs of maintenance versus replacement, environmental impact costs and health care costs (economic impact) associated with a non-functional septic systems	June 2014
Workshops will be presented to Federal, State, Tribal and County environmental and natural resource managers on risk management	July 2015
Small discussion groups will consist of Local Indian Councils, Lake Associations, township boards and other like groups.	July 2015

Activity B. Multiagency Quarterly Roundtables.**Budget****\$ 41,099.00**

There is a need to work collectively on resource management issues that cross jurisdictional boundaries in order to achieve success. In 2008 MPCA identified a number of barriers to rural wastewater management including: lack of coordination and misunderstanding. The Band and Cass County are currently collaborating to resolve multi-jurisdictional challenges. Building upon this creative approach Extension proposes to facilitate quarterly roundtables as a forum for wastewater professionals from federal, state, tribal, and local units of government providing an opportunity for participants to identify shared goals, challenges and needs, and explore solutions to improve wastewater management across political boundaries.

OUTCOME	COMPLETION DATE
Host 8 Roundtable Meetings	June 2015

Activity C. Small Community Sanitation Summit.**Budget****\$ 30,248.00**

Citizens and rural planning staff seeking drinking and wastewater infrastructure solutions are challenged with finding sources of technical and financial assistance. Extension will prepare a resource guide outlining program services and options available in conjunction with a Small Community Sanitation Summit to bring together program representatives to share information, build relationships and provide networking opportunities with citizens and rural planning staff.

OUTCOME	COMPLETION DATE
Research agencies and organizations offering services for drinking and waste water infrastructure for inclusion in a resource guide.	January 2014
Print resource guide materials for Small Community Sanitation Summit	June 2014
Planning and host Small Community Sanitation Summit	July 2014

III PROJECT STRATEGY**A. Project Team/Partners**

Partner	Role	Budget
U of M Extension – TBD	Project Leader	\$71,739.00
U of M Graduate Student TBD	researcher	\$50,000.00
Leech Lake DRM Levi Brown	Facilitator	\$13,851.00
U of M Extension TBD	Evaluation	\$5,000.00

B. Timeline Requirements.

This is a two-year project starting in July 2013 and ending June 2015

C. Long-Term Strategy and Future Funding Needs

This proposal is a one-time funding request. At this time no additional requirements or investments are expected.

2012-2013 Detailed Project Budget

Attach budget, in MS-EXCEL format, to your "2012-2013 LCCMR Proposal Submit Form".

IV. TOTAL ENRTF REQUEST BUDGET two years

BUDGET ITEM <i>(See list of Eligible and Non-Eligible Costs, p. 11)</i>	AMOUNT
Personnel: Project Coordinator U of M Extension .5 FTE wages, 36% fringe x 2 years	\$ 72,243
Personnel: U of M graduate Student one year 20 hrs/wk	\$ 40,000
Contracts: Roundtable Coordinator	\$ 13,851
Contracts: TBD Project Evaluator x 2 years	\$ 5,000
Contracts: TBD Editor for risk program and resource guide	\$ 2,000
Contracts: TBD -Applied Economic Specialist to review risk based calculations	\$ 2,000
Contracts: TBD Printing services for resource guide and risk based program materials	\$ 3,500
Travel: 4 trips to St. Paul for coordinator to meet face to face with graduate student in year one. 440 miles round trip x .555 per mile plus \$121 x 4 nights room accommodations and \$71 per day x eight days.	\$ 2,029
Travel: 6 trips, one to each county and one to each to Red Lake and Leech Lake to deliver risk based program. Averaging 151 miles x .555 round trip per site visit around the project area delivering risk based programing.	\$ 500
Additional Budget Items: Conference Center rental for Sanitation Conference and meeting rooms rentals for Roundtable meetings, flip charts, note cards, etc.	\$ 3,000
TOTAL ENVIRONMENT AND NATURAL RESOURCES TRUST FUND \$ REQUEST =	\$ 144,123

V. OTHER FUNDS

SOURCE OF FUNDS	AMOUNT	Status
Other Non-State \$ Being Applied to Project During Project Period:		N/A
Other State \$ Being Applied to Project During Project Period:	\$ -	N/A
In-kind Services During Project Period: <i>Project Leader Salary - 10% Cost Share for 2 years</i>	\$ 14,285	N/A
Remaining \$ from Current ENRTF Appropriation (if applicable):	\$ -	N/A
Funding History:	\$ -	N/A

Project Manager Qualifications and Organization Description

Shirley Nordrum: Project Manager will work 50% time to lead, manage, and implement the daily activities to ensure the objectives are successfully met. Specific responsibilities include researching drinking water and wastewater infrastructure technical assistance and funding sources and planning the Small community Sanitation Conference and oversight, input and participation of the economic analysis and multiagency roundtables. Ms. Nordrum has 18 years experience in all aspects of natural resource management and environmental protection as the Leech Lake Band of Ojibwe Environmental Director and five years experience as an Extension Educator in water resources management, working specifically in wastewater education. This experience provides a sound base for understanding natural resource management and environmental education needs as well as a working knowledge of federal agencies and regulations. Ms. Nordrum holds wastewater certifications in design, installation, soils and inspections of subsurface treatment systems.

University of Minnesota Extension knows Minnesota.

- Extension staff members work at the community level from 16 regional offices and from Extension offices in nearly every county of the state.
 - example of an Extension staff person who really knows your part of Minnesota and how that's valuable
 - example of how you, together with your statewide colleagues, are able to know the needs and concerns around the state and how that benefits the WHOLE state

University of Minnesota Extension makes University research and knowledge practical and useful to the people of Minnesota.

- Extension translates complex science and university discovery into education and information that makes sense in everyday life.
 - example of where you (or someone you know) experienced this kind of timely, practical help from Extension
 - example of how you and your colleagues help people through research-based education

University of Minnesota Extension makes a difference in people's lives.

- Extension's educational programs and services help improve the quality of life and well-being for Minnesotans and their communities.
 - example of a specific benefit/outcome in your life (or someone you know) that resulted because Extension exists
 - example of a measurable change in behavior or well-being that you know resulted from your work or that of your colleagues