Environment and Natural Resources Trust Fund

2025 Request for Proposal

General Information

Proposal ID: 2025-090

Proposal Title: Prior Lake Outlet Pipe Lining

Project Manager Information

Name: Emily Dick

Organization: Prior Lake-Spring Lake Watershed District

Office Telephone: (952) 440-0068

Email: edick@plslwd.org

Project Basic Information

Project Summary: To avoid flood damage and provide climate resiliency, the Prior Lake Outlet pipe, the sole outlet for a 18,904-acre watershed, urgently needs repair to maintain and improve essential functionality.

ENRTF Funds Requested: $763,000

Proposed Project Completion: May 31, 2026

LCCMR Funding Category: Land Acquisition, Habitat, and Recreation (G)

Project Location

What is the best scale for describing where your work will take place?

Region(s): Metro

What is the best scale to describe the area impacted by your work?

Statewide

When will the work impact occur?

In the Future

Narrative

Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.

The Prior Lake Outlet Channel (PLOC) is vital for managing high water levels in Prior Lake and surrounding areas, serving as the largest flood mitigation project in the watershed. A 2022 inspection identified a critical half-mile section in need of extensive repair to prevent failure. The PLOC is the sole outlet for flood mitigation in a developed, flood-prone watershed, including parts of the Shakopee Mdewakanton Sioux Community. The PLOC helps mitigate flooding on the second most visited lake in the metro, Prior Lake. Failure of the pipe would have severe environmental, economic, and safety repercussions, as evidenced by its reduction of flood elevations during the 2014 100-year flood event and prevention of 11 additional flood events in the last 33 years. Environmental concerns include increased shoreline erosion, water pollution from sewer systems and hazardous materials, and ecological disruption during repair efforts. Additionally, restricted lake and shore access due to flooding would impact recreators, with boating inspections showing visitors from across the state, and even other states. As climate change intensifies flood frequency and severity, maintaining a functional outlet becomes increasingly critical.

What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

The PLOC pipe is the only outlet for the entire watershed and must be maintained to mitigate flooding effects on the riparian habitat, lake recreation, and area public services which are extremely vulnerable to water levels. The only feasible and cost-effective solution is to insert pipelining while the existing pipe is still intact. The pipelining would extend the lifetime of the pipe comparable to an entirely new pipe, and it would be able to be inserted within the existing easements and access points. The pipe must be lined before it fails, as it is the only outlet for a highly developed and flood-prone watershed. Full pipe replacement is not an option due to pipe depths up to 40-feet, extremely narrow easements and crowded infrastructure including wetlands, ponds, highways, residential developments, and utilities. Pipelining would work within the existing constraints, restore the structural integrity of the pipe and reduce pipe friction allowing increased flow rates within the pipe. This project would seek funding support for the pipeliner and soil erosion blanket. Local match would support all other elements of the bid process, construction and construction management of the pipelining. The construction documents are complete and the project is shovel ready.

What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state's natural resources?

The outcome of this project is the lining of a pipe essential to flood mitigation. Lining the pipe will reduce friction and allow 18-23% more flow critical to efficient flood reduction. The pipelining will protect riparian habitat and public resources. Over the last 33 years of operation, the pipe's functionality avoided 11 years of riparian damage, shoreline erosion and limited recreation. Over 130 sewer manholes, 1 lift station, seven roads, and two parks are flood prone. Flooded sewers pollute water. High water levels cause wake regulations on Spring and Prior Lake, the second most used lake in the metro.

Activities and Milestones

Activity 1: Bid Process

Activity Budget: $1,000

Activity Description:
PLSLWD and Memorandum of Agreement (MOA) Partners (City of Prior Lake, Shakopee Mdewakanton Sioux Community and City of Shakopee) have supported the initial project development of the pipelining by preparing the project to be construction ready. The MOA Partners have funded a consultant for feasibility analysis, final design, and preparation of bidding materials such as the Project Manual. Assuming funds would be available June 2025, the bid process to select a contractor to perform the pipelining construction would occur for roughly 2 months in Summer 2025, with contracting in late Summer/early Fall 2025.

Activity Milestones:

Description	Approximate Completion Date
Advertise Bid	July 31, 2025
Site visit for interested bidders	July 31, 2025
Bids due	August 31, 2025
Bidder selected	September 30, 2025
Contract secured	October 31, 2025

Activity 2: Construction

Activity Budget: $750,000

Activity Description:
After the contract is awarded, construction planning would occur. Construction of the pipelining would occur in Winter 2025/2026, with all construction and site restoration complete by Spring 2025. The construction of the pipelining will involve all necessary site prep work. The technology used for pipelining will be “Cast-In-Place-Pipe”. The Cast-In-Place-Pipe lining is expected to be inserted down through several manholes, projected out into the existing pipe, and cured in place once set. It is expected that the pipelining would be inserted via the most accessible manholes first, and only through the more challenging access points if necessary.

Activity Milestones:

Description	Approximate Completion Date
Site prep	December 31, 2025
Pipelining	January 31, 2026
Post-construction site restoration complete	May 31, 2026

Activity 3: Construction Administration

Activity Budget: $12,000

Activity Description:
To ensure a successful delivery of this project, the pipelining engineering firm will meet with the District’s representative to develop a communication plan. Construction administration will include regular communication between MOA partners to discuss any concerns or issues that may arise. Construction administration will also include defining expectations to the Contactor from the start of the project and maintaining communication throughout to operate as

part of a unified team. Resident communications will be a top priority, and the engineering firm will serve as an on-site representative of the District to address any concerns or questions of adjacent property owners and residents. Other construction administration activities include preparation of agenda and minutes for the preconstruction and weekly meetings, approving shop drawings, preparing change orders and pay vouchers, and ensuring construction activities and end product are in compliance with construction documents and contract. The engineering firm will provide an onsite construction observer for up to 3 weeks of full-time inspection at 40 hours per week. At completion, the engineering firm will prepare record drawings and closeout documents.

Activity Milestones:

Description	Approximate Completion Date
Pre-construction Admin	December 31, 2025
Construction Observation	January 31, 2026
Prepare closeout documents	May 31, 2026

Project Partners and Collaborators

Name	Organization	Role	Receiving Funds
Nick Monserud	City of Prior Lake	Public Works Director	No
Scott Walz	Shakopee Mdewakanton Sioux Community	Natural Resources Director	No

Long-Term Implementation and Funding

Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this work be funded?

The pipe will be lined to provide flood mitigation benefits for the next 50 years. Pipelining is a one-time capital expense, with results immediately available. All follow-up is encompassed in the District's ongoing maintenance and operation. The funding and management of the PLOC is defined in a Memorandum of Agreement (MOA) with the Cities of Prior Lake and Shakopee and the Shakopee Mdewakanton Sioux Community (SMSC). The cost-share of the operation and maintenance of the pipe is distributed based on percentage of tributary drainage, which includes PLSLWD (87.0%), City of Prior Lake (12.9%), and SMSC (0.1%).

Project Manager and Organization Qualifications

Project Manager Name: Emily Dick

Job Title: Water Resources Project Manager

Provide description of the project manager's qualifications to manage the proposed project.

Emily will be responsible for the project management of the pipelining project. Her primary role will be coordinating between engineers, PLOC Cooperators, contractors and agencies. Emily will be responsible for grant reporting. Emily has a strong background in conservation infrastructure and community partnerships. She has spent her career coordinating a myriad of partnerships between local leadership, landowners, traditional chiefs, government, and private industry to create solutions that fit within landowner and community visions. Some of these solutions include aquifer recharge, flood storage and water transactions. Among others, Emily managed the completion of a feasibility study for a wetland enhancement project in the upper watershed that provides designs for a range of flood reduction and water quality benefits.

Organization: Prior Lake-Spring Lake Watershed District

Organization Description:

Prior Lake-Spring Lake Watershed District (PLSLWD) is a local government entity which manages and preserves the water resources within the watershed district boundaries. The PLSLWD was formed as a result of a citizen petition in 1970, in order to create flooding solutions for the landlocked watershed. In 1973, citizens petitioned PLSLWD to construct a stormwater outlet, the Prior Lake Outlet Channel (PLOC) to mitigate extreme flooding events. Spring and Upper Prior Lakes drain to Lower Prior, which has no natural outlet, resulting in dangerous flood events during years with heavy rainfall. The PLSLWD manages the PLOC as well as pursuing projects which improve and maintain water quality, reduce flooding, and prevent the spread of aquatic invasive species. The PLSLWD covers 42 square miles.

Budget Summary

Category / Name	Subcategory or Type	Description	Purpose	Gen. Ineligible	% Benefits	# FTE	Classified Staff?	$ Amount
Personnel								
							Sub Total	**-**
Contracts and Services								
WSB Engineering, Inc.	Professional or Technical Service Contract	Engineering, Design, Bidding Administration, Construction Management.				0.08		$13,000
							Sub Total	**$13,000**
Equipment, Tools, and Supplies								
	Tools and Supplies	Pipelining	Lining for pipe to restore stability and flow to pipe					$727,000
	Tools and Supplies	Rolled Erosion Control Blanket Category 25	To prevent erosion before revegetation in construction site					$23,000
							Sub Total	**$750,000**
Capital Expenditures								
							Sub Total	**-**
Acquisitions and Stewardship								
							Sub Total	**-**
Travel In Minnesota								
							Sub Total	**-**
Travel Outside Minnesota								

							Sub Total	**-**
Printing and Publication								
							Sub Total	**-**
Other Expenses								
							Sub Total	**-**
							Grand Total	**$763,000**

Classified Staff or Generally Ineligible Expenses

Category/Name	Subcategory or Type	Description	Justification Ineligible Expense or Classified Staff Request

Non ENRTF Funds

Category	Specific Source	Use	Status	Amount
State				
			State Sub Total	**-**
Non-State				
Cash	Prior Lake Spring Lake Watershed District Levy (87%), City of Prior Lake contribution (12.9%), Shakopee Mdewakanton Sioux Community (0.1%)	These funds will cover staff project management and technical assistance. Funds will support engineering firm construction administration, bidding administration, contractor work and construction elements including mobilization, clearing, grubbing, manhole access improvements, traffic control, site restoration seeding and seed mix. Match funds will supplement ENRTF funds to purchase the pipelining. These funds will cover community engagement pieces and preparation for public meetings.	Pending	$187,517
			Non State Sub Total	**$187,517**
			Funds Total	**$187,517**

Total Project Cost: $950,517

This amount accurately reflects total project cost?

Yes

Attachments

Required Attachments

Visual Component

File: a7b41e16-503.pdf

Alternate Text for Visual Component

The map shows the project (pipelining) area within the overall drainage area and impacted lakes, as well as overlying MPCA Environmental Justice Areas....

Financial Capacity

Title	File
Financial Capacity Part 1 (financial statements)	865f2a50-2ba.pdf
Financial Capacity Part 2 (audit)	2fb821cc-09f.pdf

Board Resolution or Letter

Title	File
Resolution of Support from Project Cooperators	f85b47f4-cd4.pdf

Supplemental Attachments

Capital Project Questionnaire, Budget Supplements, Support Letter, Photos, Media, Other

Title	File
Flood Prone Roads, Sewers, and Lift Stations Map	3259258c-ebe.pdf
Photo of Pipe Condition	6a40e719-201.jpe
Slideshow of Project Basics and Flood Impacts	0262aeb6-f5f.pdf
Capital Project Questionnaire	25c962d5-a8f.pdf
Capital Project Budget Addendum	d8eee4e7-680.xlsx

Administrative Use

Does your project include restoration or acquisition of land rights?

No

Does your project have potential for royalties, copyrights, patents, sale of products and assets, or revenue generation?

No

Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?

N/A

Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?

N/A

Does your project include original, hypothesis-driven research?

No

Does the organization have a fiscal agent for this project?

No

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing $10,000 or more or large-scale stream or wetland restoration?

Yes

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care, treatment, education, training, instruction, or recreation to children")?

No

Provide the name(s) and organization(s) of additional individuals assisting in the completion of this proposal:

Danielle Studer (Prior Lake-Spring Lake Watershed District), Joni Giese (Prior Lake-Spring Lake Watershed District