



Lessard-Sams Outdoor Heritage Council

Roseau Lake Rehabilitation: Phase III

ML 2026 Request for Funding

General Information

Date: 06/26/2025

Proposal Title: Roseau Lake Rehabilitation: Phase III

Funds Requested: \$8,685,000

Confirmed Leverage Funds: \$455,000

Is this proposal Scalable?: Yes

Manager Information

Manager's Name: Tracy Halstensgard

Title: Administrator

Organization: Roseau River Watershed District

Address: 714 6th Street SW

City: Roseau, MN 56751

Email: tracy@roseauriverwd.com

Office Number: 218-463-0313

Mobile Number: 218-242-1737

Fax Number:

Website: www.roseauriverwd.com

Location Information

County Location(s): Roseau.

Eco regions in which work will take place:

Northern Forest

Forest / Prairie Transition

Activity types:

Enhance

Restore

Priority resources addressed by activity:

Wetlands

Habitat

Narrative

Abstract

Construction of this multi-purpose project is underway. Through this final phase, the project will complete the partial restoration of a large drained lake, restoration and reclamation of stream reaches, provide water level management capacity to substantially improve wildlife habitat conditions and provide flood damage reduction benefits, and will contribute to water quality improvements in the Roseau River.

Design and Scope of Work

Roseau Lake was drained in the early 1900s when the Roseau River was channelized and dredged and associated ditch systems were constructed to increase agricultural production in the watershed. Prior to drainage, Roseau Lake provided excellent fish and waterfowl habitat. After drainage, much of the lake basin was farmed for many years and produced crops in drier times, but production was low and unreliable in wetter years. Over time, there has been recognition by local landowners that farming the lake bed would always be tenuous and large portions of the lake basin became part of the Roseau Lake Wildlife Management Area in the 1960s. Interest in a partial restoration of the lake has grown in recent years because the DNR, the watershed district, local governments, and citizens recognize that there are opportunities to develop a multipurpose project with significant wildlife habitat and flood damage reduction benefits.

The project has two primary design purposes:

- 1) To improve the quantity and quality of fish and wildlife habitat in and surrounding the Roseau Lake basin area. A key objective of the project is to provide migratory habitat (including an abundance of forage) for waterfowl and shorebirds in spring and in fall.
- 2) To effectively use the water storage capacity of the lake basin to reduce peak flows on the Roseau River downstream of the lakebed by 10% or more compared to current conditions.

The scope of work for this funding is to construct 4.6 miles of embankment and outlet structure.

Explain how the proposal addresses habitat protection, restoration, and/or enhancement for fish, game & wildlife, including threatened or endangered species conservation

Fish and wildlife habitat benefits will be achieved by constructing a system of levees and water control structures to provide capacity to actively manage water levels in the lake basin. This infrastructure will allow wildlife managers to manage lake levels throughout the year to achieve wildlife management objectives. Specifically, timely water level management in spring and fall will create conditions to provide suitable forage in abundance for migratory waterfowl and shorebirds. In addition, better management of water levels in the basin during the growing season will enhance the relative value of surrounding grass cover for nesting and provide brood-rearing cover for waterfowl and other waterbirds. Benefits to aquatic invertebrates, amphibians, reptiles, and aquatic mammals will accrue whenever water is present. Fish habitat on the river will improve as a result of stream restoration features of the project that improve water quality, hydrologic conditions and the habitat corridor along the Roseau River.

This infrastructure will provide water managers the ability to regulate the timing of flows in the area to optimize the water storage capacity of the lake bed to achieve resource objectives. Currently, there is no mechanism in place to manage water levels in the lake basin. This results in rapid drainage of the basin and consequently, wildlife

production is poor and native habitats are stressed. This project provides the ability for the DNR, in cooperation with the RRWD, to manage the basin for improved wildlife habitat.

The project has secondary benefits including improved hydrologic conditions in the Roseau River, which will contribute to improved water quality, stream stability, and fish habitat and will also benefit plant communities in the Big Swamp area downstream. The project is consistent with the watershed plan and will compliment other ongoing work in the watershed to improve fish and wildlife habitat, improve water quality, and reduce flood damage.

What are the elements of this proposal that are critical from a timing perspective?

This funding will ensure construction phasing continues uninterrupted. A joint DNR and watershed project team has developed this multipurpose project utilizing multiple funding partners. All environmental and cultural resource reviews are complete and at the time of this application all required permits are in hand. Construction is being phased; phases 1-4 were funded using the previous LSOHC grants, State Flood Hazard Mitigation program funding, MN DNR funds, and local tax levy. It is critical, now that construction is ongoing, we are able to continue to completion, which will consist of phases 5 & 6. An attached map shows construction phasing. Phases 1 & 2 are complete. Phases 3 & 4 are under construction, to be completed by September 2026. This phase III LSOHC application will address the funding needs for final construction of phases 5 & 6 for the completion of the Roseau Lake Rehabilitation Project.

Describe how the proposal expands habitat corridors or complexes and/or addresses habitat fragmentation:

This project will improve the connectivity between the Roseau Lake and Big Swamp habitat complexes. Habitat fragmentation in the Roseau Lake habitat complex will be greatly reduced by this project. Presently the project area has an array of habitat, however due to the drainage networks constructed in the early 1900's these communities are fragmented. In addition to the physical barriers, the effects of drainage on natural habitat have resulted in a loss in quality of habitat and increase of invasive vegetation.

The proposed project will support a large mosaic of interconnected wetland, upland and stream habitat. The upper reaches of the project consist of 4000+ acres of peatlands, which will be hydrologically connected to the basin through disabling the present drainage ditches and diverting flows along their natural gradient towards the Roseau Lake Basin. Immediately downgradient of the peatlands are a complex of emergent and shrub dominated wetland communities, punctuated by bands of upland habitat formed on former beach ridges of Roseau Lake. Downgradient of the emergent and shrub wetlands are shallow and deep marsh habitat which comprise the former shallow lake basin. Within the basin, Pine Creek which is currently channelized, will be re-introduced to its historic channel, mimicking the pre-drainage dynamics of the stream and its connection to its floodplain and the lake basin. Within the river, the weir installed in the channelized reach will ensure that base flows will remain within the historic channel, thus enhancing aquatic and riparian habitat. Once completed, the project will support a large complex of predominantly wetland habitats extending from the Roseau Lake Basin into the province of Manitoba. Stream restoration components of the project have been completed through previous phases.

Which top 2 Conservation Plans referenced in MS97A.056, subd. 3a are most applicable to this project?

Long Range Duck Recovery Plan

North American Waterfowl Management Plan

Explain how this proposal will uniquely address habitat resilience to climate change and its anticipated effects on game, fish & wildlife species utilizing the protected or restored/enhanced habitat this proposal targets.

Recent analysis from the MNDNR has illustrated that the Roseau River is experiencing greater extremes in both high flow and low flow events compared to historical data. The project's ability to store water off-channel, provides attenuation of peak flows during and post flood to diffuse the impacts of climate change both within the basin and downstream along the Roseau River.

Conversely, the ability to retain water entering the basin, either from the river or from the northern catchments of Pine Creek and the Sprague Creek Peatlands can mitigate drought impacts on habitat within the basin. Currently during prolonged dry periods or drought, the wetlands dry down as a result of the open connection of drainage ditches to the river. Historically, during prolonged dry periods invasive vegetation expands further into the basin resulting in reduced quality of habitat.

Which LSOHC section priorities are addressed in this proposal?

Forest / Prairie Transition

Protect, enhance, and restore migratory habitat for waterfowl and related species, so as to increase migratory and breeding success

Northern Forest

Restore and enhance habitat on existing protected properties, with preference to habitat for rare, endangered, or threatened species identified by the Minnesota County Biological Survey

Describe how this project/program will produce and demonstrate a significant and permanent conservation legacy and/or outcomes for fish, game, and wildlife, and if not permanent outcomes, why it is important to undertake at this time:

The project is a prime example of reversing human alterations on the natural landscape. Through restoring the hydrologic conditions within the lake basin and mimicking habitat composition prior to extensive drainage, the project will enhance habitat for fish, game, and wildlife. The size of the project and the composition of habitat which will be enhanced will provide significant benefit to wildlife within the project footprint, while also providing benefits to downstream habitat and connecting habitat corridors upstream and downstream of the basin. This project will have a beneficial conservation outcome for generations.

The project partners have reached common ground on the desired goals of this project through extensive planning and coordination that has been years in development. It's imperative the project continues to completion to achieve permanent conservation outcomes.

Outcomes

Programs in forest-prairie transition region:

Increased waterfowl and upland bird migratory and breeding success ~ *Annual waterfowl surveys.*

Programs in the northern forest region:

Greater public access for wildlife and outdoors-related recreation ~ *Annual DNR waterfowl harvest surveys.*

What other dedicated funds may collaborate with or contribute to this proposal?

Environment and Natural Resource Trust Fund

Clean Water Fund

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.

This request will not supplant or be substituting for other funds for the project.

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

The Roseau River Watershed District and MN DNR will be responsible for all future operation and maintenance of this project's infrastructure under the terms of a joint powers agreement. The Watershed District is authorized under Minnesota Statutes 103D to participate in long-term maintenance of this project.

Habitat enhancements within the rehabilitated lake basin will be the responsibility of the Mn DNR Section of Wildlife as part of ongoing habitat maintenance on the Wildlife Management Area.

Actions to Maintain Project Outcomes

Year	Source of Funds	Step 1	Step 2	Step 3
2025 - 2030	Local RRWD Levy & MN DNR	Monitor	Maintain	-

Provide an assessment of how your program may celebrate cultural diversity or reach diverse communities in Minnesota, including reaching low- and moderate-income households:

The Project will provide:

- Free public access for fishing and hunting near a population center (city of Roseau)
- No-cost access to wildlife viewing mounds

Project Partners have done:

- outreach to tribal authorities on natural resource benefits
 - consultation with tribal authorities on cultural resources associated with the Roseau Lake basin.
- Project Partners plan additional education outreach on the cultural significance and history of the area.

Activity Details

Requirements

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?

WMA

Permanently Protected Conservation Easements

Other : Watershed District owned land

Public Waters

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 insecticides or fungicides (including neonicotinoid and fungicide treated seed) be used within any activities of this proposal either in the process of restoration or use as food plots?

No

Other OHF Appropriation Awards

Have you received OHF dollars through LSOHC in the past?

Yes

Are any of these past appropriations still OPEN?

Yes

Approp Year	Funding Amount Received	Amount Spent to Date	Funding Remaining	% Spent to Date
2020	\$3,036,000	\$400,000	\$2,636,000	13.18%
Totals	\$3,036,000	\$400,000	\$2,636,000	13.18%

Timeline

Activity Name	Estimated Completion Date
construction	12-31-2028

Budget**Totals**

Item	Funding Request	Total Leverage	Leverage Source	Total
Personnel	-	-	-	-
Contracts	\$8,400,000	\$420,000	Local levy	\$8,820,000
Fee Acquisition w/ PILT	-	-	-	-
Fee Acquisition w/o PILT	-	-	-	-
Easement Acquisition	-	-	-	-
Easement Stewardship	-	-	-	-
Travel	-	-	-	-
Professional Services	\$285,000	\$14,000	local levy	\$299,000
Direct Support Services	-	-	-	-
DNR Land Acquisition Costs	-	-	-	-
Capital Equipment	-	-	-	-
Other Equipment/Tools	-	-	-	-
Supplies/Materials	-	-	-	-
DNR IDP	-	-	-	-
Grand Total	\$8,685,000	\$434,000	-	\$9,119,000

Amount of Request: \$8,685,000**Amount of Leverage:** \$434,000**Leverage as a percent of the Request:** 5.0%**DSS + Personnel:** -**As a % of the total request:** 0.0%**Easement Stewardship:** -**As a % of the Easement Acquisition:** -

Total Leverage (from above)	Amount Confirmed	% of Total Leverage	Amount Anticipated	% of Total Leverage
\$434,000	\$455,000	104.84%	-\$21,000	-4.84%

Detail leverage sources and confirmation of funds:

The RRWD has levy authority for capital projects.

Does this proposal have the ability to be scalable?

Yes

If the project received 50% of the requested funding**Describe how the scaling would affect acres/activities and if not proportionately reduced, why?**

Receiving a 50% allocation would allow us to complete construction of Phase 5. As we get closer to completion of this water control basin, scalability becomes more challenging. Delayed funding will extend the lack of any benefits from the project and increase construction costs.

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

We are not requesting funds for DSS or personnel.

If the project received 30% of the requested funding

Describe how the scaling would affect acres/activities and if not proportionately reduced, why?

Receiving a 30% allocation would allow us to complete construction of Phase 6. Delayed funding will extend the lack of any benefits from the project, increase construction costs, and increase the likelihood of negative public sentiment due to delayed usability.

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

We are not requesting funds for DSS or personnel.

Contracts

What is included in the contracts line?

The engineer's estimate for the remaining construction.

Professional Services

What is included in the Professional Services line?

Design/Engineering

Federal Funds

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

No

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	0	0
Enhance	3,000	0	0	1,900	4,900
Total	3,000	0	0	1,900	4,900

Restoration/Enhancement Acres Breakdown of Existing Protected Lands (Table 1a.2)

	RESTORE		ENHANCE	
	Lands acquired with OHF	Lands NOT acquired with OHF	Lands acquired with OHF	Lands NOT acquired with OHF
DNR Lands (WMA, State Forests, etc)	-	-	-	4,780
Non-DNR Lands (city, state, federal, etc.)	-	-	-	120
Easements	-	-	-	-
Total	-	-	-	4,900

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	-	-	-	-	-
Enhance	\$5,297,800	-	-	\$3,387,200	\$8,685,000
Total	\$5,297,800	-	-	\$3,387,200	\$8,685,000

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	0	0	0	0	0	0
Enhance	0	3,000	0	0	1,900	4,900
Total	0	3,000	0	0	1,900	4,900

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	-	-	-	-	-	-
Enhance	-	\$5,297,800	-	-	\$3,387,200	\$8,685,000
Total	-	\$5,297,800	-	-	\$3,387,200	\$8,685,000

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	-	-	-	-
Enhance	\$1,765	-	-	\$1,782

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	-	-	-	-	-
Enhance	-	\$1,765	-	-	\$1,782

Target Lake/Stream/River Feet or Miles

Parcels

Sign-up Criteria?

No

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

All project related land rights have been secured. This funding will be allocated to construction.

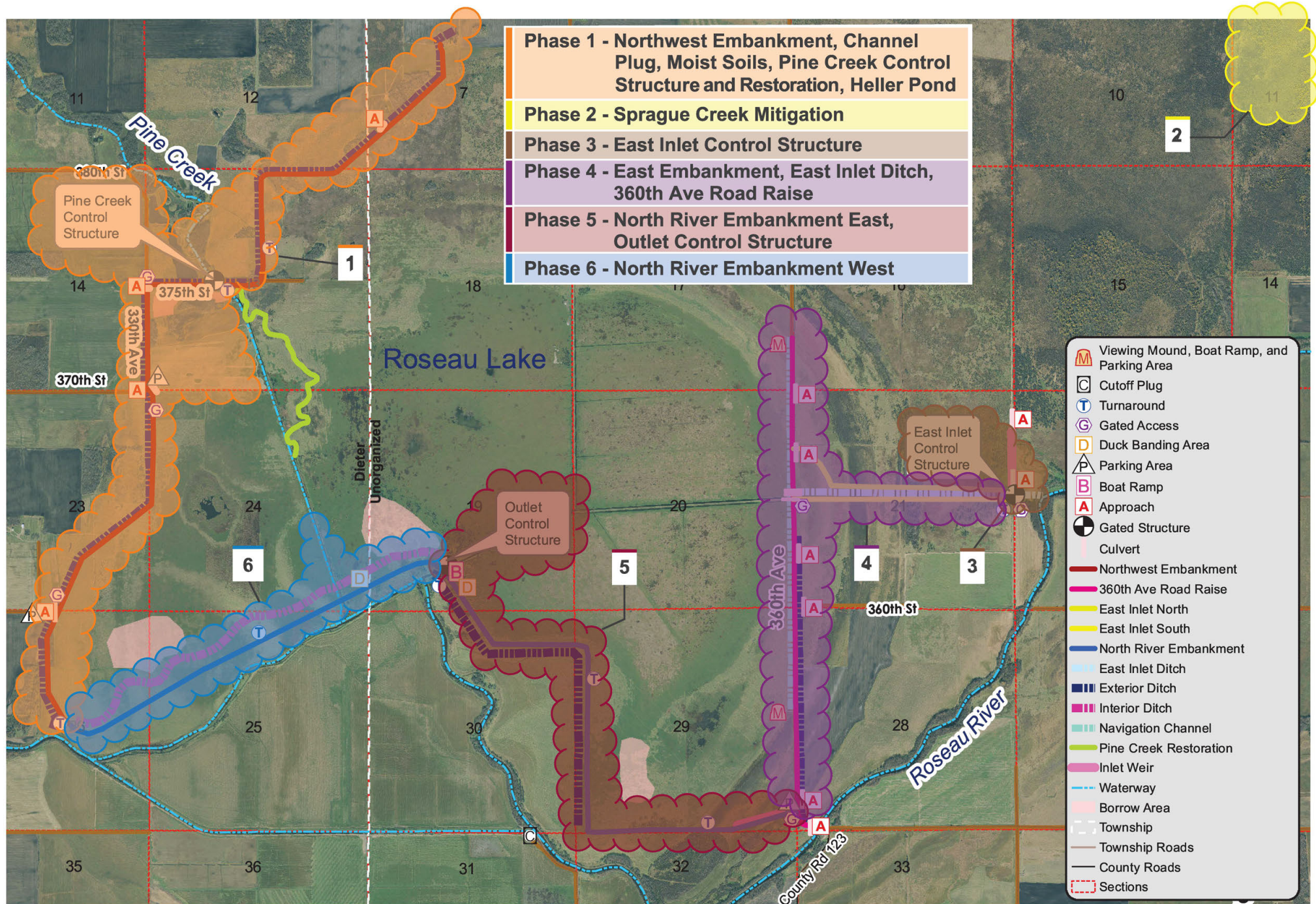
Restore / Enhance Parcels

Name	County	TRDS	Acres	Est Cost	Existing Protection	Description
Dieter 13	Roseau	16341213	480	\$800,000	Yes	lake basin
Dieter 23	Roseau	16341223	88	\$146,666	Yes	lake basin
Dieter 24	Roseau	16341224	620	\$1,033,334	Yes	lake basin
Dieter 25	Roseau	16341225	183	\$305,000	Yes	lake basin
Dieter 26	Roseau	16341226	194	\$323,334	Yes	lake basin
Jadis Unorganized 15	Roseau	16340215	4	\$6,666	Yes	lake basin
Jadis Unorganized 17	Roseau	16340217	640	\$1,066,666	Yes	lake basin
Jadis Unorganized 18	Roseau	16340218	640	\$1,066,666	Yes	lake basin
Jadis Unorganized 19	Roseau	16340219	626	\$1,043,334	Yes	lake basin
Jadis Unorganized 20	Roseau	16340220	640	\$1,066,666	Yes	lake basin
Jadis Unorganized 21	Roseau	16340221	320	\$533,334	Yes	lake basin
Jadis Unorganized 29	Roseau	16340229	640	\$1,066,666	Yes	lake basin
Jadis Unorganized 30	Roseau	16340230	104	\$173,334	Yes	lake basin
Jadis Unorganized 7	Roseau	16340207	221	\$368,334	Yes	lake basin

Parcel Map



- Protect in Easement
- ▲ Protect in Fee with PILT
- Protect in Fee W/O PILT
- ★ Restore
- ✕ Enhance
- ✚ Other



Proposed Project Phasing January 2025



**ROSEAU LAKE
REHABILITATION
PROJECT**