Requester Information

Legislator Name: Peterson, Thomas W.

Created Date: January 28th 2026 **Submitted Date:** January 28th 2026

Section 1: Requester Details

Description:

Sediments over decades and during warm summer months, this stored phosphorus is released back into the water, fueling algal blooms and poor water quality. Long-term improvement will only be achieved by addressing phosphorus stored in the sediments. This project aims to fund the water quality restoration of Mantua Reservoir through the application of treatments to permanently bind the sediment phosphorus, reduce the sediment loading, and improve the water quality.

Legislative designee contact information:

Name: Cloe Nixon

Organization: Dorsey & Whitney, LLP

Position: Government Affairs Manager

Section 2: Funding Information

How will the appropriation be used?

Category	One-time		Ongoing
Personnel Services	2026: 2027:	$0.00 $354,100.00	$0.00
In-State Travel	2026: 2027:	$0.00 $8,200.00	$0.00
Out-of-State Travel	2026: 2027:	$0.00 $8,200.00	$0.00

Category	One-time		Ongoing
Supplies and Equipment	2026: 2027:	$0.00 $1,535,400.00	$0.00
Technology Purchases	2026: 2027:	$0.00 $0.00	$0.00
Infrastructure/Capital Investments	2026: 2027:	$0.00 $0.00	$0.00
Other Charges/Pass Thru	2026: 2027:	$0.00 $94,000.00	$0.00

Expenditure Total

One-time 2026	One-time 2027	Ongoing 2027
$0.00	**$1,999,900.00**	**$0.00**

Funding Sources:

General Fund

Amount Requested:

2026 (One-time)	$0.00
2027 (One-time)	$1,999,900.00
2027 (Ongoing)	$0.00

Revenue Total

One-time 2026	One-time 2027	Ongoing 2027
$0.00	**$1,999,900.00**	**$0.00**

Is this a multi-year project?

Yes

Is this project scalable if the Legislature does not fund the full requested amount?

No

A short explanation describing how the project might be scaled?

Section 3: Agency Information

Subjects:

01533

Land and Environment

Agency:

560 / Natural Resources

Type of entity to receive pass-through funding:

State Government

Grant recipient

No

Requested Direct Award Grant Recipient

Section 4: Performance Outcome Measurement

Who would benefit the most from this request (who is the target audience)?

This project will deliver rapid and sustained improvements to water quality in Mantua Reservoir, enhancing its value as a community and recreational resource. Expected outcomes include reduced HAB-related advisories and closures, expanded recreational use, increased local tourism, improved habitat for fish and wildlife, and long-term protection of public and environmental health.

What is this project or program intended to accomplish?

The primary objective of this project is to reduce the internal phosphorus loading that drives poor water quality in the reservoir, including the risk of harmful algal blooms. Water quality improvement will be accomplished through the application of a 10% lanthanum-modified bentonite clay designed to permanently bind bioavailable phosphorus in lake sediments. By directly addressing internal phosphorus loading, the project provides a cost-effective pathway to long-term water quality restoration.

How will the Legislature know whether the project or program achieved its intended purpose?

Project success will be evaluated through continuous monitoring of sediment and water-column conditions over the duration of the program. Sediment samples collected from multiple locations before and after treatment will quantify changes in phosphorus availability. Routine water quality monitoring during the ice-free season will track nutrients and key indicators of algal bloom conditions, and annual satellite imagery will be used to assess lake-wide trends. First-year outcomes are expected to include an approximately 50% increase in water clarity, similar reductions in water-column phosphorus, and a shift from harmful cyanobacteria toward more beneficial algal communities – all of which support restored reservoir use beginning in year one. Following the initial treatment, smaller-scale annual treatments are necessary to sustain improvements and continue reducing bioavailable sediment phosphorus. Second-year outcomes include implementation of an initial maintenance treatment. Following the second year of treatments, sediment and water column samples and reductions in bottom-water and surface-water phosphorus concentrations will be analyzed to determine the reservoir's response to the first two years of management, and determine additional restoration needs.

Section 5: Other Supporting Documents

Intent Language Documents

Previous Funding Documents

Full Time Employees

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