



MEMORANDUM

Comfort Lake-Forest Lake Watershed District

Date: May 4, 2023
To: CLFLWD Board of Managers
From: Mike Kinney, District Administrator
Subject: ACTION ITEM: Forest Lake Alum Treatment Project Ordering



Forest Lake
Management District

Background/Discussion

The purpose of this agenda item is for the Board to consider adopting a resolution ordering the Forest Lake Alum Treatment Project. This project was last discussed at the March 23, 2023, regular board meeting.

The Forest Lake Alum Treatment is a capstone project to achieve water quality goals in Forest Lake, with an estimated phosphorus removal of 527 pounds per year. Over the past decade, the Comfort Lake-Forest Lake Watershed District has worked with numerous partners, including the City of Forest Lake and Forest Lake Lake Association, to construct water quality projects throughout the area surrounding Forest Lake. With these projects in place, external watershed phosphorus loading has largely been addressed. The proposed alum treatment will address internal phosphorus loading coming from lake bottom sediments. The alum will bind phosphorus, making it unavailable for algae growth. This project will result in cleaner, clearer water in Forest Lake. The alum treatment will occur over the course of two doses, the first in September 2023. The Watershed District will monitor the lake throughout 2024 to evaluate alum effectiveness. The second dose will occur in September 2025, if needed, based on monitoring data.

On behalf of the District, Emmons & Olivier Resources completed the Forest Lake In-Lake Feasibility Study in 2022. The study was partially funded by a Lower St. Croix Watershed Based Implementation Funding grant. The Board accepted the feasibility study at the August 11, 2022, regular board meeting. The feasibility study included alum dosing calculations for the first round of treatment, slated for September 2023. The feasibility study is available at www.cflwd.org and at the following direct link: [Forest Lake In-Lake Feasibility Study](#).

Project Funding and Summary

The estimated cost for the Project is \$667,000. Of this amount, a Clean Water Fund grant will supply \$533,600. On February 9, 2023, the Board authorized the District Administrator to execute the grant agreement. The remainder would come from the District ad valorem tax levy on real property within the watershed, apportioned between Chisago and Washington Counties in accordance with the net tax capacity of each. The 2023 budget line item for this project 5-228-F (Forest) Internal Load Management and contains \$300,000 which is anticipated to be sufficient for this year.

Outreach Update

Staff provided an overview of the project outreach plan at the March 23rd meeting. Since then, the following outreach tasks have been completed:

- Partner meetings with Forest Lake Lake Association & City of Forest Lake
- Finalization of the [project education & outreach plan](#)



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- Preparation for presentation at May 17th Forest Lake Lake Association Meeting
- Preparation for presentation at June 19th City of Forest Lake Council Workshop
- Ongoing material development

Recommended Motion

Proposed Motion: Manager _____ moves to adopt resolution 23-05-01. Seconded by Manager _____.

Attached: Resolution 23-05-01

**COMFORT LAKE-FOREST LAKE WATERSHED DISTRICT
BOARD OF MANAGERS**

RESOLUTION 23-05-01

**RESOLUTION ORDERING and DIRECTING SOLICITATION OF BIDS for the
FOREST LAKE ALUM TREATMENT PROJECT**

Manager _____ offered the following resolution and moved its adoption, seconded by Manager _____:

WHEREAS the District has adopted a watershed management plan (WMP) in accordance with Minnesota Statutes §103B.231, which, in project 5-228-F, indicates the District will conduct alum or other in-lake treatment to reduce internal load of one or all of the basins of Forest Lake (hereafter the "Project");

WHEREAS in accordance with the WMP, the District will have addressed 90% of watershed loads through implementation of numerous projects prior to the alum treatment, including but not limited to the County Road 50 Iron Enhanced Sand Filter, 3rd Lake Wetland Treatment Basin, Hilo Lane Stormwater Retrofit, Enhanced Street Sweeping Partnership Program, and Shields Lake restoration projects;

WHEREAS the District applied for and has been awarded a Clean Water Fund grant from the State of Minnesota, in the amount of \$533,600, for the Project;

WHEREAS the District engineer estimates a Project cost of \$667,000, and the District is able to supply the remainder of Project costs from the District ad valorem property tax levy;

WHEREAS after publication once each week for two successive weeks in the District's legal newspaper, and with notice given by mail to cities and townships within the District, as well as Chisago and Washington Counties, all in accordance with Minnesota Statutes §103B.251, the Board of Managers held a duly noticed public hearing on May 11, 2023, at which time all interested parties had the opportunity to speak for and against the Project;

WHEREAS the District engineer has presented the results of its feasibility assessment, its cost estimate and project plans to the Board, and finds that the

Project is feasible, and the Board concurs that the Project is feasible and finds that it is a cost-effective element of meeting the District's water quality goals set forth in the WMP; and

WHEREAS the Board has considered the engineer's findings and the comments of interested parties and finds that the Project is feasible and cost-effective, will be conducive to public health and promote the general welfare, and is in conformance with Minnesota Statutes §§103B.205 to 103B.255 and the WMP;

THEREFORE BE IT RESOLVED that the Project is ordered;

BE IT FURTHER RESOLVED that the District engineer is to complete plans and specifications and the District administrator is to solicit sealed bids for performance of the Project, which bids shall be presented to the Board for consideration of contract award;

The question was on the adoption of the above resolution and there were ____ ayes and ____ nays as follows:

Manager	Aye	Nay	Absent	Abstain
Stephen Schmaltz				
Christopher Loth				
Dave Bakke				
Jackie Anderson				
Doug Toavs				

The President declared the resolution adopted.

Dated: May 11, 2023

Dave Bakke, Secretary

* * * * *

I, Dave Bakke, Secretary of the Comfort Lake-Forest Lake Watershed District Board of Managers, do hereby certify that the above resolution is a true and correct transcription of an action of the Board taken on the date above indicated.

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____ 2023.

Dave Bakke, Secretary