



# Project Update

*July 13, 2023*

Blayne Eineichner, Project Coordinator





## Introduction

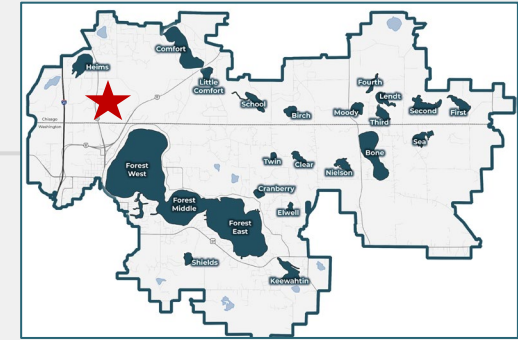
- These slides are intended as an informational update of progress on the many projects underway throughout the District.
- Similar information will also be presented in this month's Administrator's report.
- If there are any questions regarding this update, please reach out directly to the Administrator and/or staff in advance of the board meeting.





# Sunrise River HWY-61 Wetland Enhancement

Formerly known as the “Tax Forfeit Project”



**A Chisago County  
Petition Project**

## **Project:**

Wetland enhancement – hydrology restoration and treatment of ditch flow from the Heims Lake / Hwy 35 subwatershed area

## **Project Phase 4:** Implementation

## **Benefit:**

~89 lbs/yr phosphorus and 51,740 lbs/yr TSS load reductions at the Sunrise River

~65 lbs/yr and 18,600 lbs/yr TSS reductions at Comfort Lake

+ wildlife habitat and ecological benefits

## **Lifetime cost per pound phosphorus reduction:**

\$618/lb.TP/yr

## **Status:**

Shrub, tree, and wetland plug planting completed week of June 5<sup>th</sup>. Site restoration completed. All project elements completed. Waiting for as-built surveys before project close out.



Wetland plug planting on June 7, 2023



# County Road-50 Iron Enhanced Sand Filter (CR50 IESF)

## **Project:**

Iron Enhanced Sand Filter in the Washington Judicial Ditch 6 Subwatershed of Forest Lake

## **Project Phase 4:**

Implementation

## **Benefit:**

Est. 97 lbs/yr phosphorus load reduction

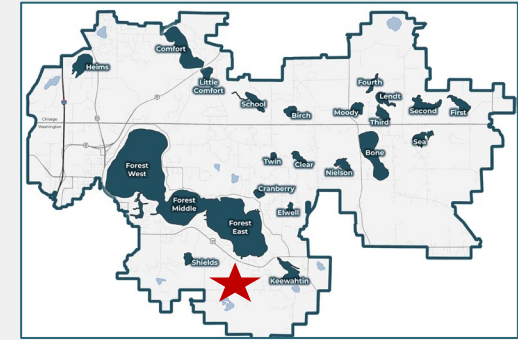
Est. 3,000 lbs/yr TSS reduction to Forest Lake

## **Lifetime cost per pound phosphorus reduction:**

~\$514/lb.TP/yr

## **Status:**

Planting and final site restoration took place week of May 29. System testing took place on June 8<sup>th</sup>. The project is fully operational. System calibration and fine tuning will be ongoing for the first year of operation. Irrigation system installed June 14<sup>th</sup> for trees and shrubs. Project close out waiting on final punch list.



Temporary irrigation system set up on site to help with plantings survival.





# Moody Lake Capstone Projects

## Project:

several small wetland enhancements, legacy load removal, and agriculture best management practice (BMP)

**Project Phase 3:** Design

**Benefit:** 62lbs/yr phosphorus reduction

~9,000 lbs/yr TSS reduction with Ag BMP's

**Lifetime cost per pound phosphorus reduction:**

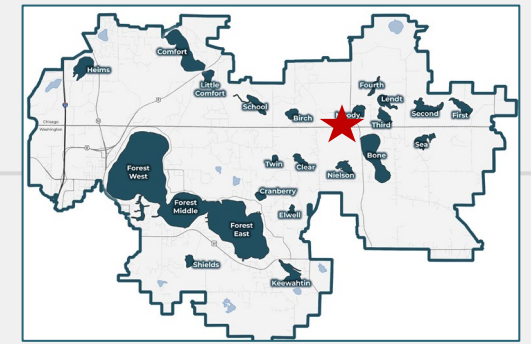
\$400/lbs.TP/yr

## Status:

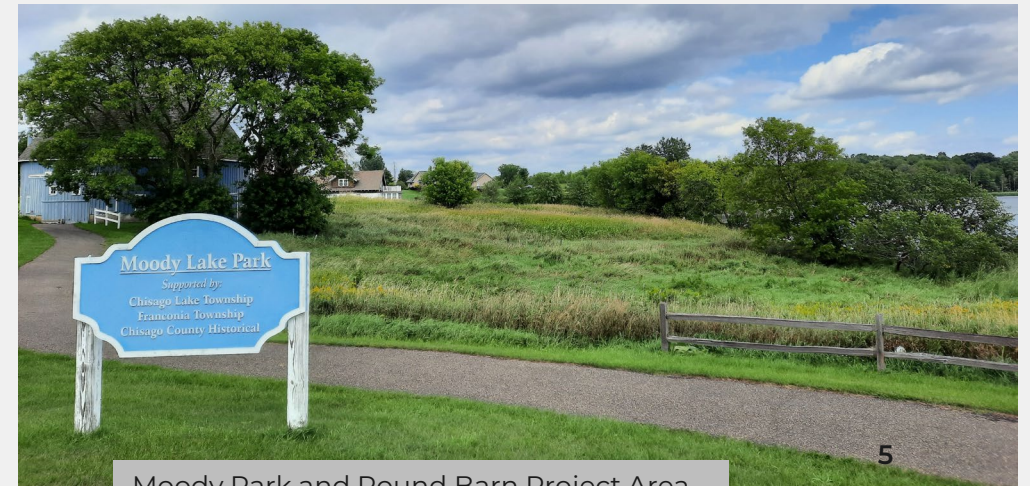
Permission from Chisago Lake Township to implement projects at Moody Park and the Moody Round Barn has been acquired.

Easement secured for the Legacy Load Removal area.

EOR working on final designs. Contractor solicitation will occur this summer.



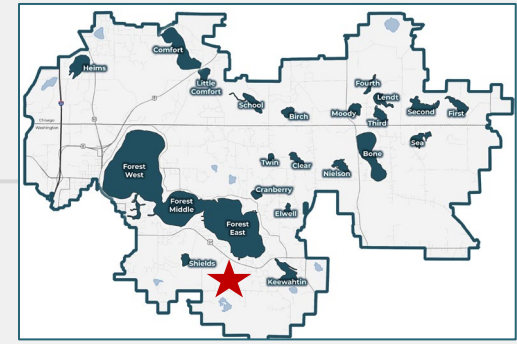
Legacy Load Removal Area



Moody Park and Round Barn Project Area



# WJD6 Western Tributary Wetland Enhancement



## **Project:**

Wetland enhancement / connectivity, hydrology restoration

## **Project Phase 2:**

Feasibility

## **Benefit:**

~20 lbs/yr phosphorus reduction

~3,200 lbs/yr TSS reduction

## **Lifetime cost per pound phosphorus reduction:**

\$1,043

## **Status:**

Landowner agreement in place. Wetland permitting approved by WCA and ACOE.

EOR working on final designs. Contractor solicitation will occur this summer.

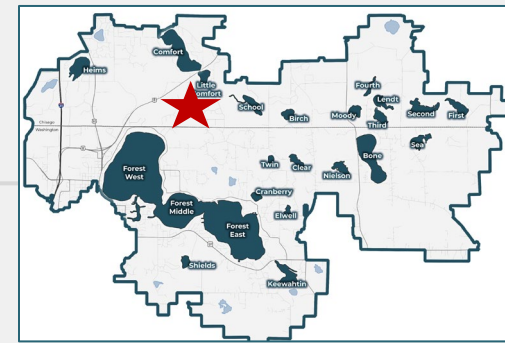


Project rendering



# Little Comfort Lake Subwatershed Enhancement

## “East Wetland Gravel Pit” Project



### **Project:**

Wetland enhancement / infiltration basin

### **Project Phase 2:**

Feasibility

### **Benefit:**

+80 lbs/yr phosphorus reduction

Minimal TSS reduction

### **Lifetime cost per pound phosphorus reduction:**

TBD

### **Status:**

There may be some question of property ownership/control as this parcel is part of a family trust – the landowners are working through this. They will let us know the status of the property by mid-June. All project engineering and feasibility is on hold until this issue is resolved.

**Transfer of the gravel pit property to a member of the trust is pending – this individual is not interested in selling to the CLFLWD.**

Comfort Lake-Forest Lake Watershed District | **Project Update**



Images from the gravel pit

