



Project Update

May 11, 2023

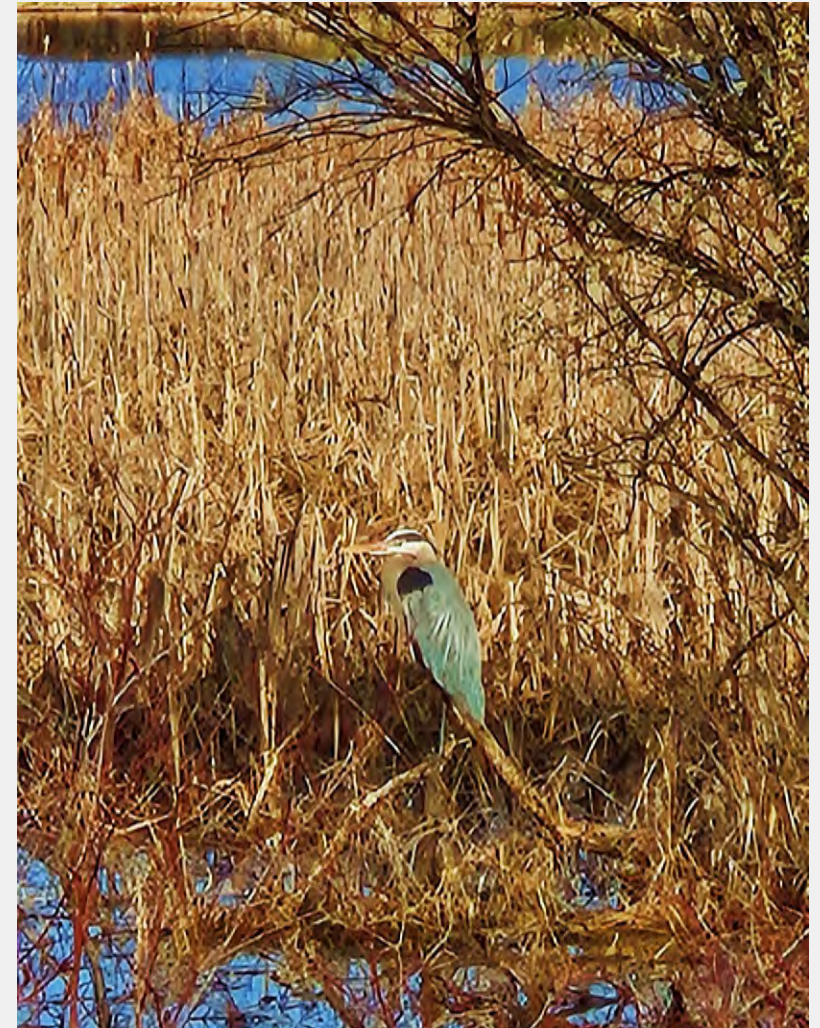
Blayne Eineichner, Project Coordinator





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.



Great Blue Heron near Little Comfort Lake



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:

The northern ditch connection, revegetation, and full site restoration will be completed this spring when conditions allow.

The guardrail extension was installed on 4-21-23.



Guardrail extension installed 04-21-23



Location of the outflow of the pipe under Hwy 61 .



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

Lifetime cost per pound phosphorus reduction:

~\$514/lb.TP/yr

Status:

Fall implementation completed on Nov 17. Pump and control panel installation late April / early May. Electrical hook up to occur early May after the control panel is installed. Planting scheduled for mid-May.





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



Iron Enhance Sand Filters awaiting inundation 05-01-23





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

Lifetime cost per pound phosphorus reduction:

\$400/lbs.TP/yr

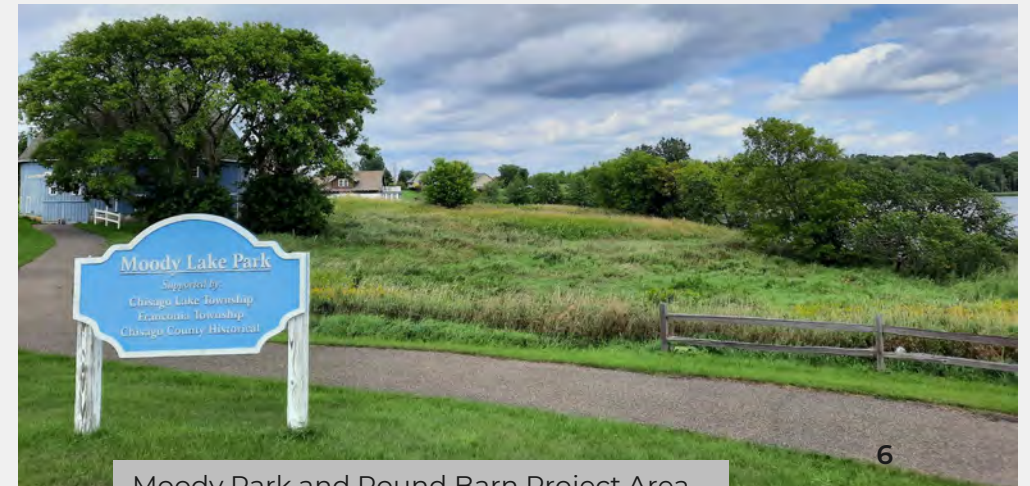
Status:

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

Mortgage company consent received for the legacy load removal area. Continued outreach with these landowners to finalize and execute the project easement.



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

Lifetime cost per pound phosphorus reduction:

\$1,043

Status:

Continued landowner outreach. Coordination with mortgage company regarding project easement.

Wetland permitting submitted early April. WCA permit with "No Loss" approval received 04-27-23. Awaiting response from the ACOE.



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

Lifetime cost per pound phosphorus reduction:

TBD

Status:

EOR working on preliminary design and the feasibility report. Continued outreach with the landowner regarding property acquisition. Staff is working with BWSR on a one-year grant extension to implement the project.



Images from the gravel pit

