



Project Update

June 8, 2023

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Great Blue Heron on Forest Lake's Willow Point.



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:

The northern ditch connection completed mid-May.

Revegetation and full site restoration will be completed when conditions allow.



Ditch connection under Hwy 61 and touch up work (background) at the Sunrise River Hwy 61 Wetland Project 5-18-23.



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:

Pump and control panel installed mid-May. Electrical hook took place the week of May 22.

Planting to occur early June.

Project should be up and running early June after minor repairs to the outflow pipe and system testing.



Spring site visit with the Contractor to discuss remaining “punch list” items needed to complete the project.



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



Iron Enhance Sand Filters awaiting inundation 05-01-23



Control panel electronics 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:

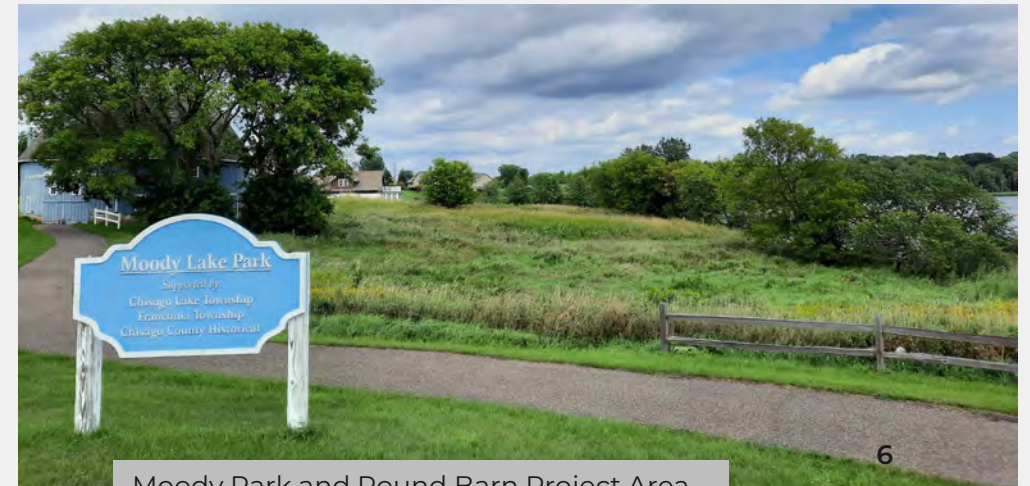
Permission from Chisago Lake Township to implement projects at Moody Park and the Moody Round Barn has been acquired.

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

Lifetime cost per pound phosphorus reduction:

\$1,043

Status:

Consent from the mortgage company received. Will have an agreement in place with the landowners for the project soon.

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:

Coordination ongoing with the landowner regarding purchase of the gravel pit property. 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.



Images from the gravel pit

