



Project Update

November 21, 2024

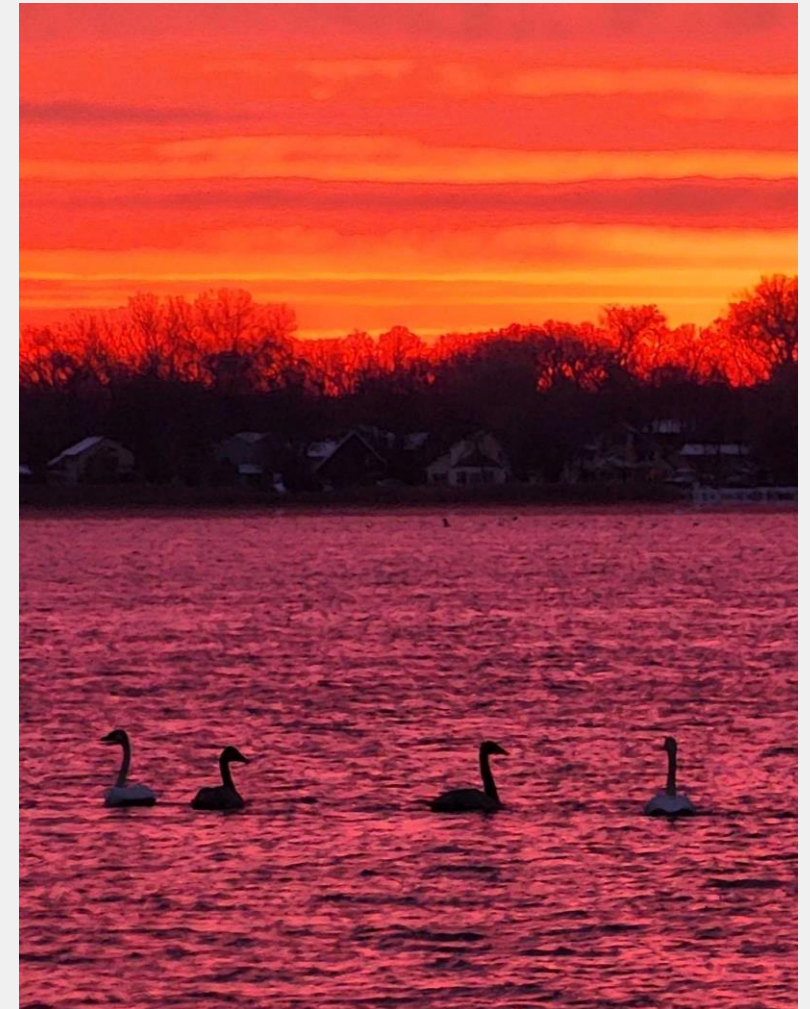
Blayne Eineichner, Project Coordinator





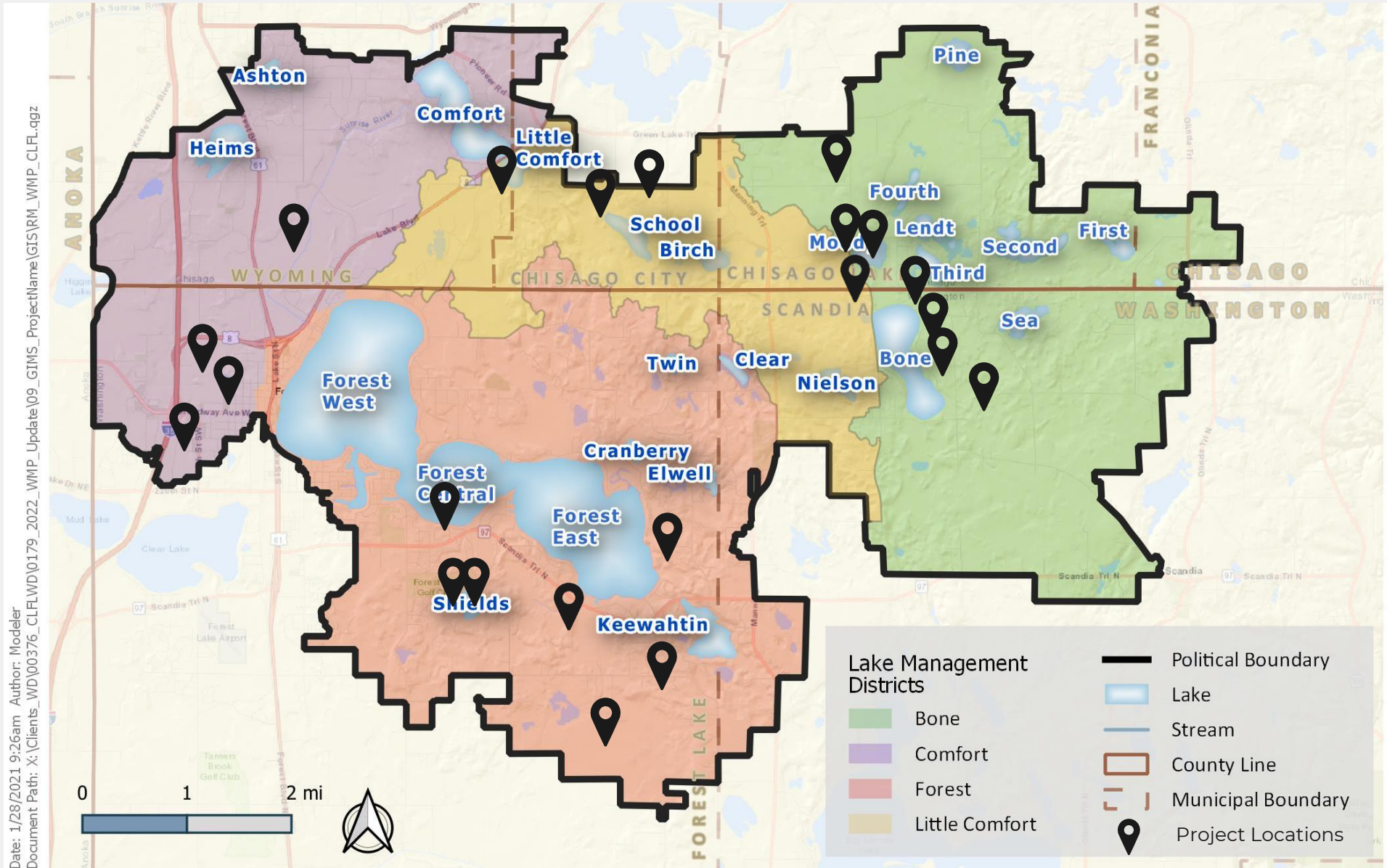
Introduction

- 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.





Completed District Projects





Project Management

Phase 1. Planning: Pre-grant execution; includes project identification tasks such as diagnostic monitoring.

Phase 2. Feasibility: Begins with grant agreement execution; includes surveying etc.

Phase 3. Design: Begins with feasibility study acceptance and project ordering; includes project design.

Phase 4. Implementation: Begins with project bidding; includes bidding, contract award, construction.

Phase 5. Operations & Maintenance: Begins with certificate of completion acceptance and final payment; continues through project lifespan - typically 10-25 years

A reminder of the many steps needed to identify, plan, design, and implement each water quality improvement project. Each phase has multiple tasks that can take anywhere from several months to a year to complete.

- Phase 1 - Planning

- + PROJECT IDENTIFICATION AND DUE DILIGENCE
PLAN AMENDMENT (if necessary)
- + GRANT APPLICATION & EXECUTION & REPORTING

- Phase 2 - Feasibility

- + SCOPE OF WORK REVIEW
- + ENVIRONMENTAL REVIEW
PRELIMINARY DESIGN
- + OUTREACH
- + PROJECT ORDERING & FEASIBILITY STUDY ACCEPTANCE
(public hearing)

- Phase 3 - Design

- + SCOPE OF WORK/BUDGET REVIEW
- + OBTAIN PROPERTY RIGHTS/OPTIONS
PERMITTING (including CLFLWD)
- FINAL DESIGN
- + AUTHORIZATION TO SOLICIT BIDS

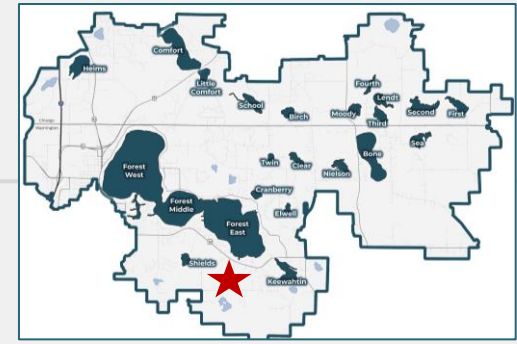
- Phase 4 - Implementation

- + SOLICIT BIDS
- + CONTRACT AWARD
- + CONTRACTING/NTP
- + CONSTRUCTION MANAGEMENT
DEVELOP O&M MANUAL
- + CERTIFICATE OF COMPLETION & PAYMENT
- + GRANT CLOSEOUT

+ Phase 5 - Operation & Maintenance



WJD6 Western Tributary Wetland Enhancement



Project:

Wetland enhancement / connectivity, hydrology restoration

Project Phase 4:

Implementation

Benefit:

~20 lbs/yr phosphorus reduction.

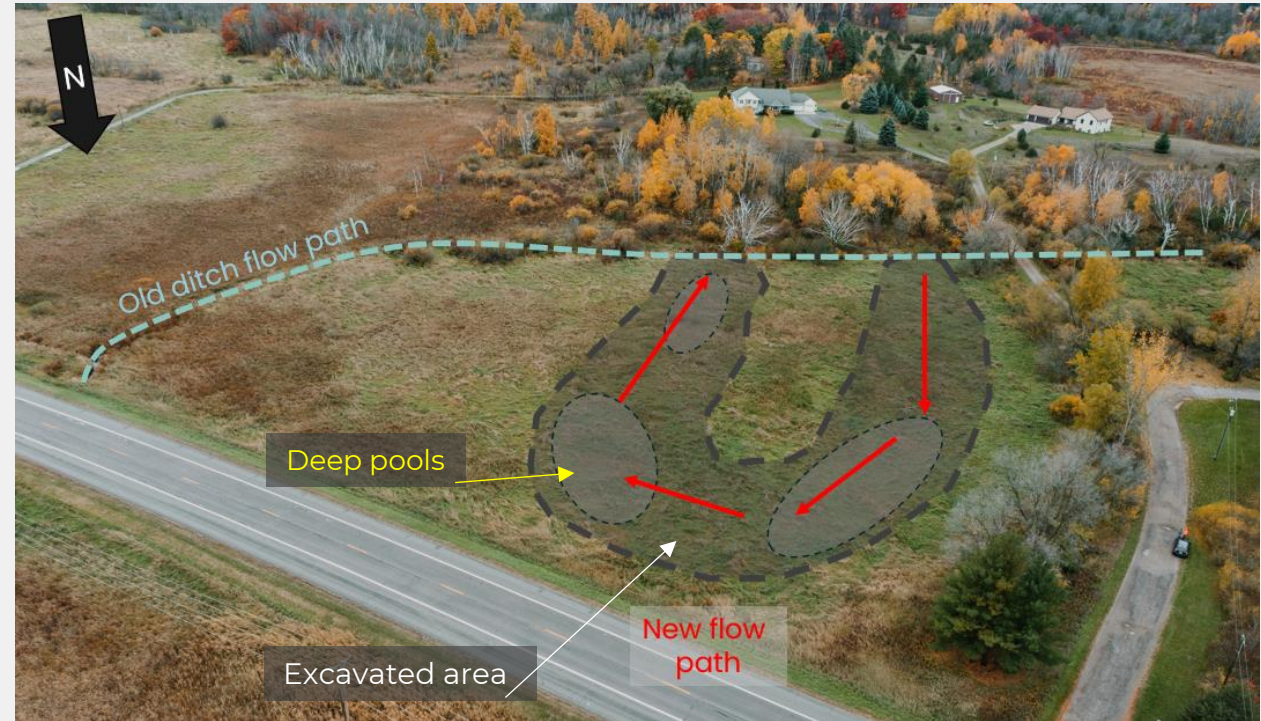
~3,200 lbs/yr TSS reduction.

Lifetime cost per pound phosphorus reduction:

\$1,043

Status:

Project Complete. Construction contract to be closed out soon. Waiting on vegetation warranty bond from sub-contractors.



View of wetland from Drone with overlay of the project schematics.



WJD6 Western Tributary Wetland Enhancement

WJD6 Wetland Project Area. View from Hwy 97 of completed project.





Moody Lake Capstone Projects

Project:

several small wetland enhancements, legacy load removal, and parking lot raingarden

Project Phase 4: Implementation

Benefit: 58lbs/yr phosphorus reduction
~150 lbs/yr TSS reduction

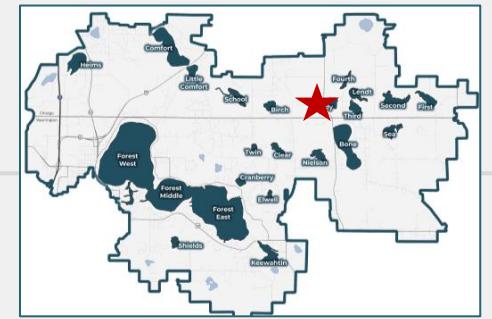
Lifetime cost per pound phosphorus reduction:

\$400/lbs.TP/yr

Status:

All Capstone Projects completed. Construction contract to be closed out in November.

Staff are requesting an extension on the CWF grant in order to implement several Agricultural BMP's within the watershed. An additional 2 lbs Phosphorus and 1 ton of soil reductions per year are estimated from these BMP's.



Legacy Load Removal Area



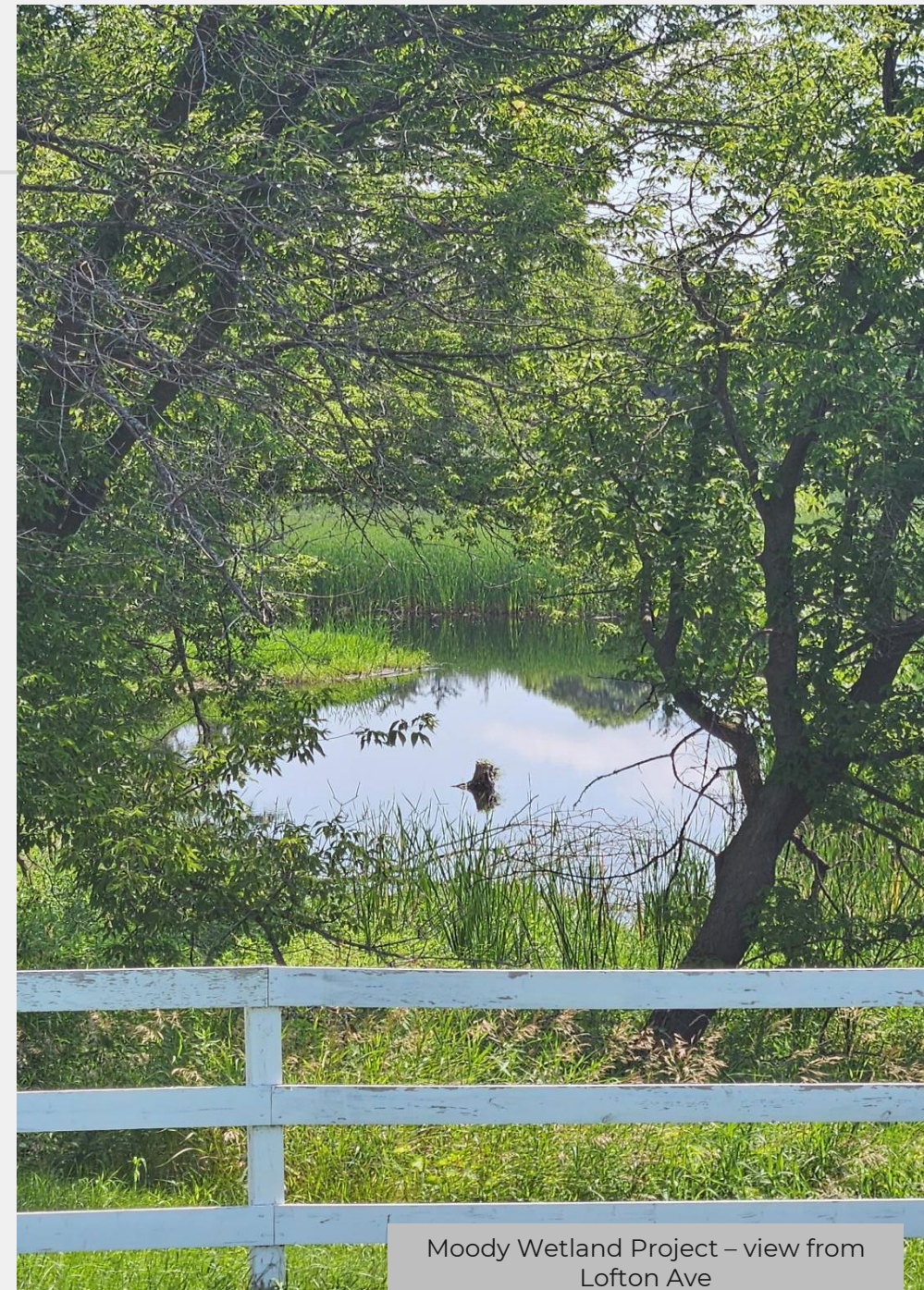
Moody Park and Round Barn Project Area



Moody Lake Capstone Projects



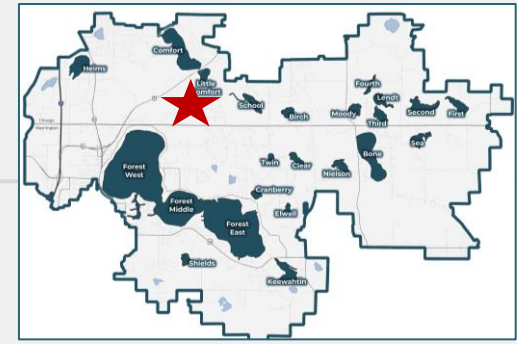
Mood Park improvements. Lake access repair completed.



Moody Wetland Project – view from Lofton Ave



Little Comfort Lake Subwatershed Enhancement



Project: Iron Enhanced Sand Filter

Project Phase 2: Feasibility

Benefit: ~78 lbs phosphorus per year

Lifetime cost per pound phosphorus reduction: TBD

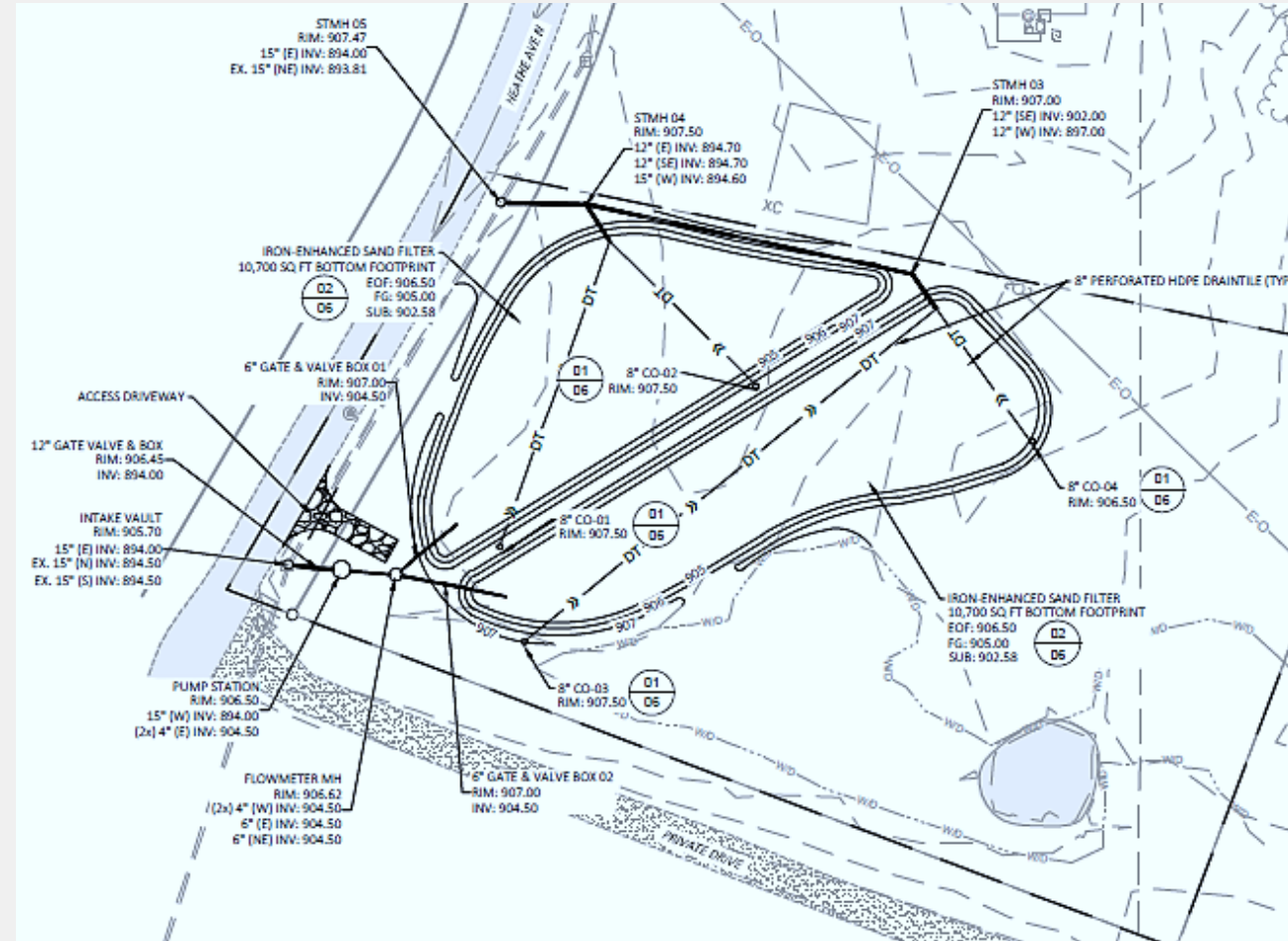
Status:

Contingent purchase agreement signed by landowners. Wetland delineation approved by WCA.

Rezoning of property approved by City of Wyoming Sept 10. Applications for subdivision of the property will be reviewed by the planning commission Nov 12.

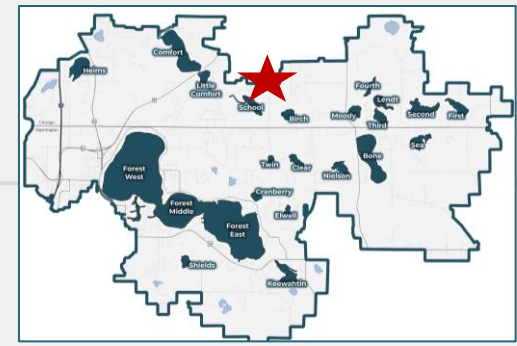
The District will look to enter an MOA with the City of Wyoming regarding permission to alter after the Heath Ave N pipeline. Staff are coordinating this effort with the City.

Staff have applied for a Clean Water Fund grant for project implementation.





School Lake Agriculture BMPs



Project:

Livestock manure facility improvements, non-structural agricultural practices.

Project Phase 2: Feasibility

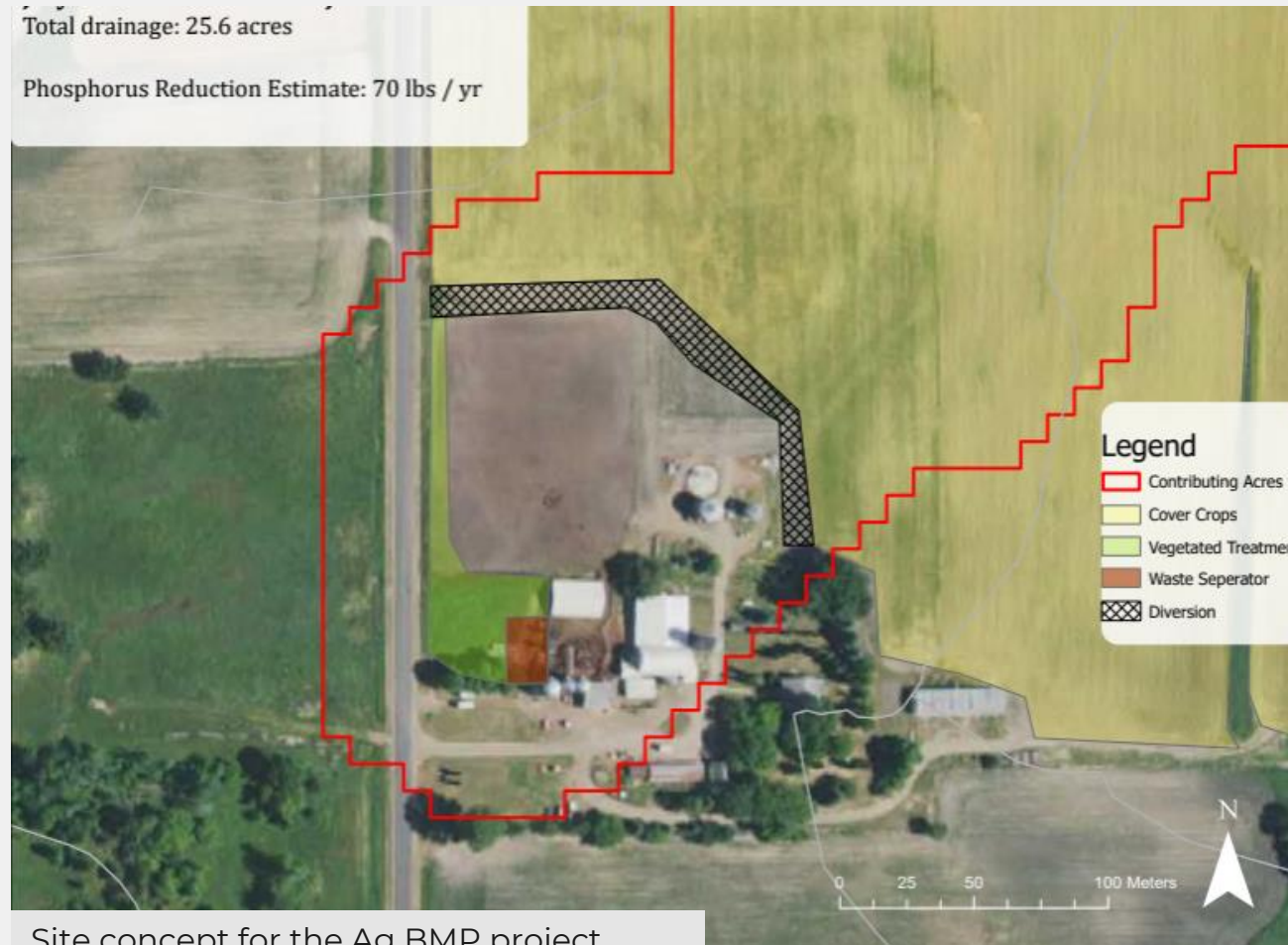
Benefit: ~61 lbs phosphorus per year

Lifetime cost per pound phosphorus reduction:

TBD

Status:

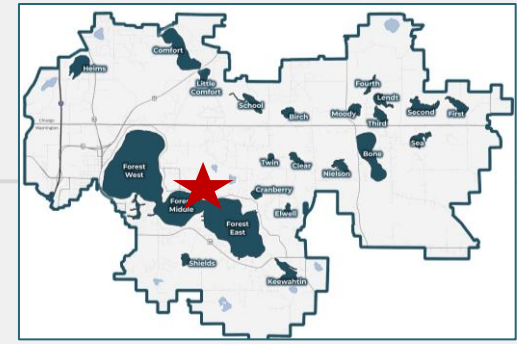
CLFLWD staff are in communication with the landowner to plan for the implementation of these BMPs. Agricultural BMPs require full buy-in from the landowner to be successful, and we are working diligently to put together a plan that satisfies the landowner while meeting our reduction goals.



Site concept for the Ag BMP project



North Shore Circle Shoreline Enhancement



Project:

Shoreline restoration

Project Phase 3: Implementation

Benefit: ~0.1 lbs phosphorus per year, 100 linear feet of shoreline restored, 2,000 sqft of habitat.

Lifetime cost per pound phosphorus reduction:

TBD

Status:

CLFLWD staff have met with the city to review the current plans and final revisions are underway. A draft agreement with the city is being written and will be brought to the CLFLWD Board of Managers and the Forest Lake City Council for approval.

Anticipated construction in Spring of 2025.



Example site plan for North Shore Circle Park