



PRIOR LAKE SPRING LAKE WATERSHED DISTRICT

CAC Meeting Minutes

Date: 10/28/21
5:00 - 7:10 PM

Attendees:

CAC Members:

8 of 10 members present = 80% (>50%)

- | | |
|----------------------------------------------------------------------|-------------------------------------------------------------|
| <input checked="" type="checkbox"/> Christian Morkeberg (Chair) | <input type="checkbox"/> Woody Spitzmueller |
| <input checked="" type="checkbox"/> Christopher Crowhurst (SubCmChr) | <input checked="" type="checkbox"/> Matt Newman |
| <input checked="" type="checkbox"/> Jim Weninger | <input checked="" type="checkbox"/> Ben Burnett (Secretary) |
| <input checked="" type="checkbox"/> Matt Tofanelli | <input checked="" type="checkbox"/> Loren Hanson |
| <input type="checkbox"/> Maureen Reeder | <input checked="" type="checkbox"/> David Hagen |

Staff: Joni Giese (District Administrator)

Board members:

Bruce Loney (CAC rep) Curt Hennes

Guests:

Wes Steffan (SLA)
Lisa Quinn (Spring Lake Township)

I. Pre-meeting Subcommittee Gatherings – Christopher Crowhurst

CAC Subcommittees met from 5:00 to 5:30 to discuss goals for the next 12 months

II. Convene meeting – 5:30 pm – Welcome — Chair Christian Morkeberg

III. Minutes & Agenda

- | | |
|-------------------------------|------------------------------------------------|
| a. September Minutes approved | Motioned: Ben; Seconded: Christopher; passed |
| b. October Agenda approved | Motioned: Christopher; Seconded: David; passed |

IV. CAC Business

- Loren presented the new “New Member Orientation Packet” Update
 - The new packet was reviewed and discussed, everyone thought it was very good and the acronym list was great. Several edits were recommended: correct CAC acronym/title; add a link to the Watershed District Management Plan; “What is the CAC?” language to match the language from the charter;
- CAC Subcommittee Reports – working on goals for 2021 & re-alignment
 - Each Subcommittee reported their discussion and their goals for the next year. The goals for each are below, these were refined a bit after the meeting for clarity and focus by Christian and Christopher.
 - Subcommittees:
 - General Goal: Find experts and invite to present at a CAC meeting or multiple experts to create a panel discussion for a topic at a meeting or special session.
 - Shoreline restoration (David, Loren, Jim)
 - Document historical changes in lake shore and lake bottom topography.
 - Understand and educate CAC on Wave Science to understand impact on lake shore and water quality
 - Review current ordinance and regulations to see if they are current or need updating.

- Lake life and water quality (Matt T., Matt N, Maureen)
 - Understand impact of lakeshore restoration techniques on water quality
 - Investigate phosphorus removal via vegetation removal techniques
- Aquatic invasive species (Ben, Christian)
 - Assist in I-LIDS program evaluation
 - Help to create and AIS scorecard detailing each species and each lake situation (*plants & animals, good/bad, response, etc.*)
 - Assess watershed rapid response plan and policies on AIS
- Fish stocking (Loren, Christian, Matt Tofanelli)
 - Document recommendation for management of native fish species
 - Coordinate with watershed, DNR, and lake associations to ensure ongoing commitment to stocking
 - Watershed can only be involved if it is a water quality issue, DNR does some stocking, lake associations will need to do anything else, CAC can help document and coordinate
- Water Storage: (Maureen, Woody, Jim)
 - Study Upper watershed plan implementation plans impact on Spring Lake and Prior Lake water levels.
 - Investigate options for wetland banking for purpose of flood reduction and sediment and phosphorus reduction, includes discovery of Dept. Agriculture grants.
- CAC Officer Elections – January 2022 (Christian)
 - Chair, Vice-chair, Secretary
 - New position: Subcommittee Chair

V. Staff Project Updates - Joni


- District Rules Update
 - Joni presented a very informative talk about the PLSLWD rules and the process of getting them updated for the first time since 2003
 - **see attachment #1**
 - District has 16 rules (A – P) that are triggered by identified development or construction activities, and enforced via a Permit Process and District Equivalency Agreements (with other jurisdictions). These rules are split into 2 groups: Procedures, and Activities.
 - These rules are how the PLSLWD Policy is put in to action. The PLSLWD Policy Statement is: Protect the public health, welfare, and natural resources of the District by regulating the improvement or alteration of land and waters within the District to:
 - Reduce the severity and frequency of high water
 - Preserve floodplain and wetland storage capacity
 - Improve the chemical and physical quality of surface waters
 - Reduce sedimentation District Rules: Policy Statement
 - Preserve the hydraulic and navigational capacities of waterbodies
 - Promote and preserve natural infiltration areas
 - Preserve natural shoreline features

- Minimize future public expenditures on problems caused by the improvement or alteration of land and waters Staffing Updates
 - Staffing Updates
 - 1 position filled, will start soon.
 - Open Position (Watershed Regulations Coordinator) is not getting desired response, the position description is being reworked and will be reposted soon.
 - Sutton Lake Management Plan Introduction – postponed to Dec. 9th meeting
- VI. Board Liaison Updates & Requests to CAC – Bruce
- Bruce presented a summary of the Upper Watershed Blueprint plan, background, and the selected the 6 projects that are part of the selected “Option B” - **see attachment #2**
 - Sutton Lake Iron Enhanced Sand Filter
 - Spring West Iron Enhanced Sand Filter
 - Buck Lake East Wetland Enhancement
 - Swamp Lake Iron Enhanced Sand Filter
 - Buck Lake Chemical Treatment System
 - County Ditch 13 Chemical Treatment System
- VII. October Workshop & Board Meeting – attendee: Jim
- a. Nov. Board Meeting – attendee: Woody
 - b. CAC Member Report
 - 1. Budget items
 - 2. Scott County LIDAR funding
 - 3. Conservation easements
 - 4. Approved Sutton Lake Management Plan
 - 5. Staffing issues
- VIII. Adjourn
- a. Motioned: Loren; Seconded: David; passed
- IX. Upcoming Meetings:
- a. Board Meeting: Tues, 11-9-21, 6:00 pm
 - b. CAC Meeting: Thurs, 12-9-21, 6:30 pm (subcommittees meet at 6:00 pm)

Attachment #1 - Staff Updates




1

Three nature photographs stacked vertically. The top photo shows a narrow stream flowing through a dense forest. The middle photo shows a calm lake with a line of trees in the background under a clear blue sky. The bottom photo shows a small pond with reeds and trees reflected in the water.

District Rules: Policy Statement

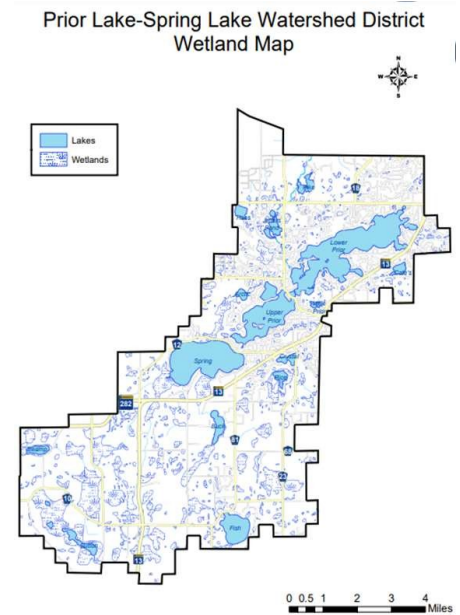
Protect the public health, welfare, and natural resources of the District by regulating the *improvement or alteration of land and waters* within the District to:

A circular logo for PLSLWD. It features a white silhouette of a heron on a dark blue background, with the letters "PLSLWD" in white at the bottom.

2

District Rules: Policy Statement

- Reduce the severity and frequency of high water
- Preserve floodplain and wetland storage capacity
- Improve the chemical and physical quality of surface waters
- Reduce sedimentation



3

District Rules: Policy Statement

- Preserve the hydraulic and navigational capacities of waterbodies
- Promote and preserve natural infiltration areas
- Preserve natural shoreline features



4



District Rules: Policy Statement

- Minimize future public expenditures on problems caused by the improvement or alteration of land and waters



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Rule Revisions Overview

- 2003 – Last substantively revised
- 2012-2013 – Significant rule revision planning; revisions never realized
- 2015 – Revisions per the State’s Municipal Separate Storm Sewer System (MS4) Permit (required an increased volume control standard)

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Rule Revision Goals

- Bring standards into agreement with current state guidance and advances in stormwater management science
- Improve water quality while providing flexibility to developers to incorporate new techniques and technologies
- Increase requirements and incentives for volume management

7



Rule Revision Goals

- Promote consistency with other regulations (e.g., NPDES Construction Permit) to minimize the regulatory burden on developers
- Coordinate regulatory standards and requirements with implementing partners



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Current Rule Update Schedule

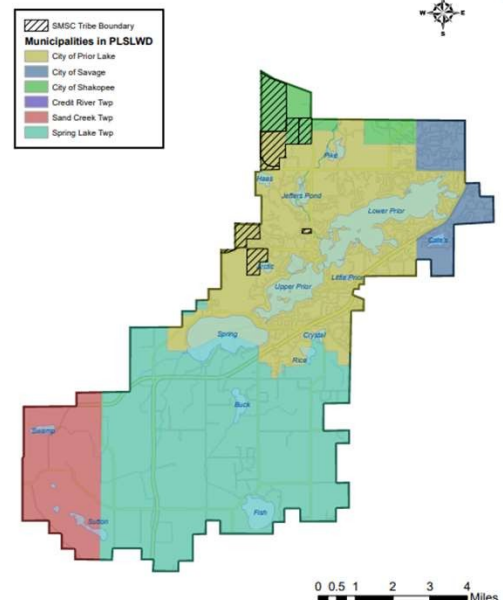
- 2018-2020 – Present Revision Process
 - 5 TAC Meetings
 - 3 Road Authority Meetings
 - 3 Board Workshops
 - Public Hearing – October 8, 2020
 - 45-day Review Period – ended October 28, 2020

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District Rules

- District has 16 rules (A – P)
- Rules are triggered by identified development or construction activities
- Rules are enforced via a Permit Process
- District Equivalency Agreements

Prior Lake-Spring Lake Watershed District
Tribes and Municipalities



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District Rules: Procedures

- Rule A – Definitions
- Rule B – Procedural Requirements
- Rule K – Fees
- Rule L – Security
- Rule M – Variances
- Rule N – Appeals
- Rule O – Enforcement



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District Rules: Activities

- Rule C – General Standards
- Rule D – Stormwater Management
- Rule E – Erosion and Sediment Control
- Rule F – Floodplain Alteration
- Rule G – Wetland Activities
- Rule H – Bridge and Culvert Crossings
- Rule I – Drainage Alterations
- Rule J – Buffer Strips
- Rule P – Illicit Discharge

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Next Steps

- Share final rules with
- Board of Managers approval
- Establish equivalency agreements with agency partners

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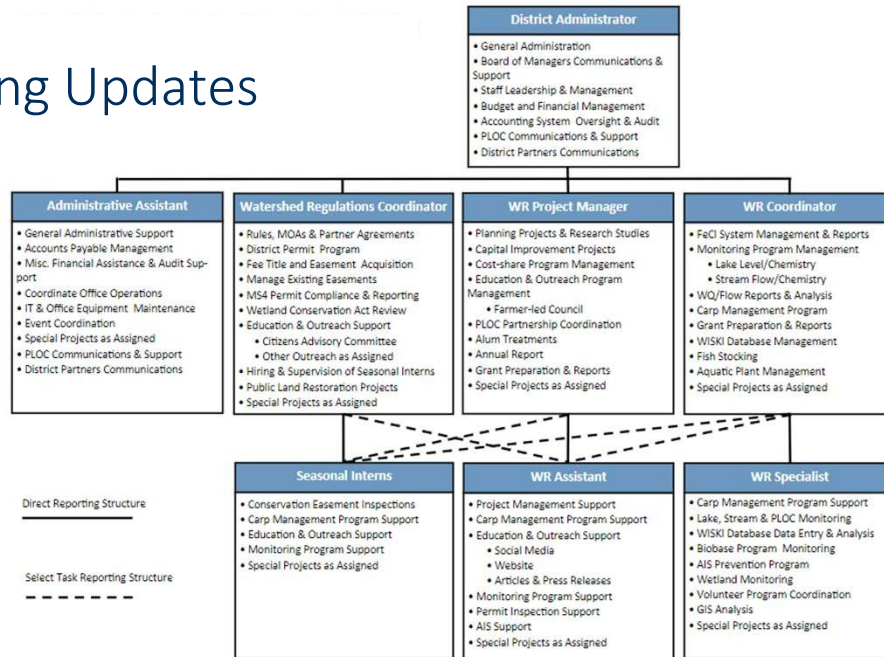


Questions?



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Staffing Updates



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Sutton Lake Management Plan



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Attachment #2 - Upper Watershed Blueprint plan



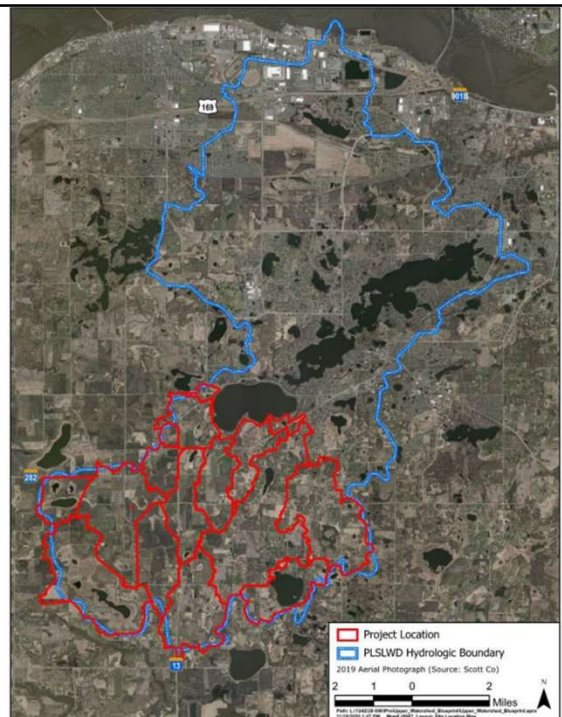
Upper Watershed Blueprint CAC Presentation

October 28, 2021

1

Project Area

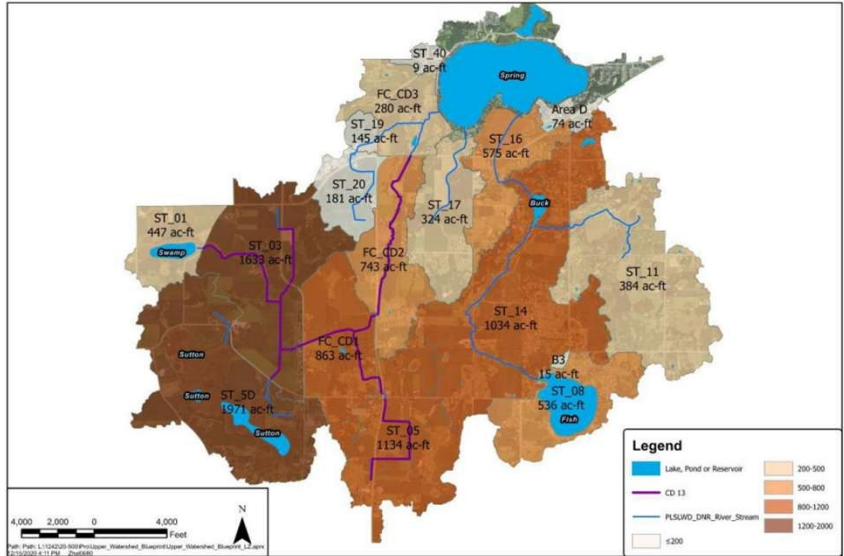
- 12,760-acre tributary to Spring Lake
- 2/3 of total tributary area to Spring, Upper and Lower Prior Lakes



2

Project Drainage

- Upper Watershed is drained primarily through 2 channels
 - Ditch 13 System
 - Buck Lake System



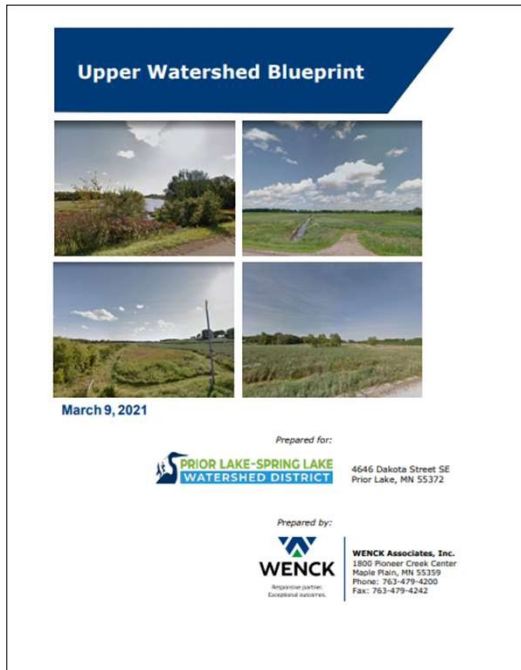
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Project Background

- Spring Lake and Upper Prior Lake are designated as Impaired Waters (total phosphorous) by the MPCA
- Runoff during periods of high rainfall impacts flooding on Spring, Upper & Lower Prior Lakes



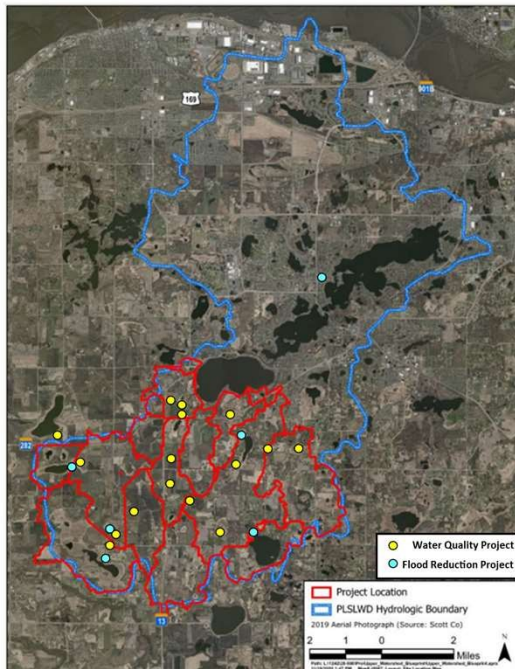
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Project Intent

Goal: Comprehensive approach for stormwater management in the upper watershed

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Study Outcomes

- Prioritized list of 17 projects to:
 - Improve Water Quality
 - Reduce Flooding

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Near-term Implementation Projects

- In July 2021, 6 options of grouped projects were analyzed. Managers selected “Option 2”
- Evaluation Factors:
 - % of TMDL Achieved
 - Cost/lb of Phosphorus Removed
 - Construction and Lifecycle Costs

Tally of Project Grouping Options									
Upper Watershed Blueprint									
16-Jun-21									

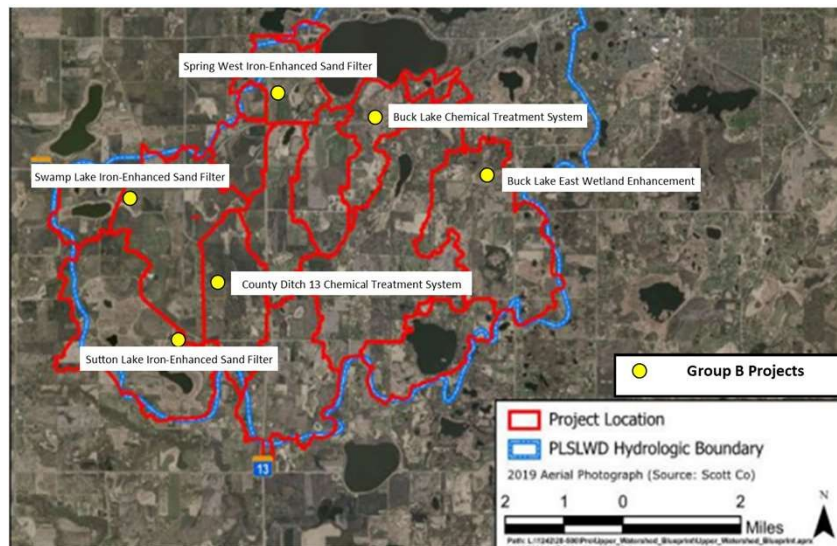
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Near-Term Projects – Option B

Project	Phosphorous Reduction (lbs/yr)	Treatment Train TP (lbs/yr)	Flood Reduction (feet)	Phosphorous Reduction (\$/lb)	Lifecycle Cost	Scoring Matrix Rank
Water Quality Projects						
1) Sutton Lake Iron-Enhanced Sand Filter	735	735	0	\$166	\$1,836,000	2
3) Swamp Lake Iron-Enhanced Sand Filter	223	223	0	\$159	\$530,000	7
6) Buck Lake East Wetland Enhancement (2)	100	100	0.1	\$119	\$180,000	3
12) Spring West Iron-Enhanced Sand Filter	249	249	0	\$112	\$419,000	1
13) Buck Lake Chemical Treatment System	793	729	0	\$204	\$2,431,000	8
14) County Ditch 13 Chemical Treatment System	1,062	676	0	\$157	\$2,500,000	5
<div style="display: flex; justify-content: space-between; width: 100%;"> 2,712 \$ 194 \$ 7,896,000 </div>						

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Individual Projects



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Sutton Lake Iron-Enhanced Sand Filter

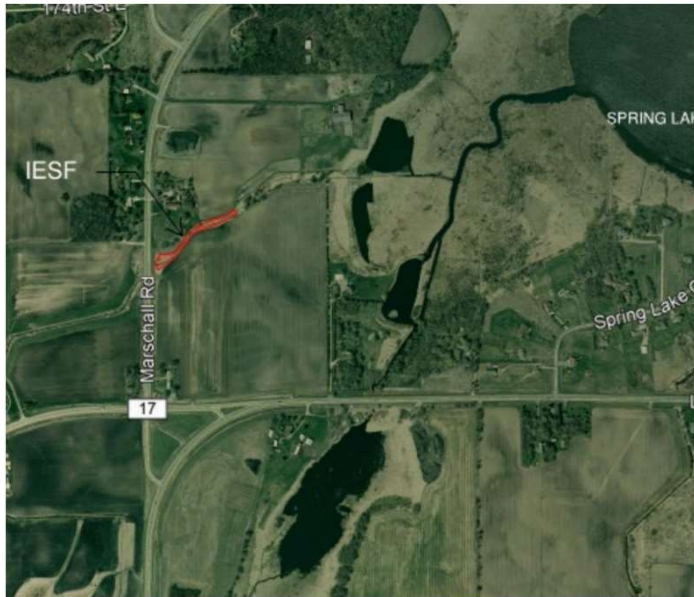
	Estimated Cost
Construction	\$1,406,000
PLSLWD Staff	\$32,000
Operations & Maintenance (30 years)	\$183,000
Total	\$1,621,000



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Spring West Iron-Enhanced Sand Filter

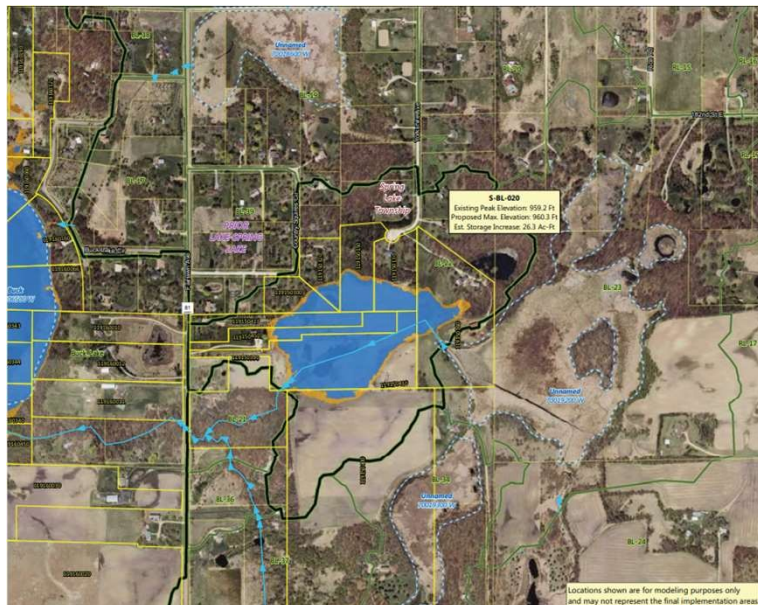
	Estimated Cost
Construction	\$367,000
PLSLWD Staff	\$26,000
Operations & Maintenance (30 years)	\$152,000
Total	\$545,000



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Buck Lake East Wetland Enhancement

	Estimated Cost
Construction	\$192,000
PLSLWD Staff	\$28,000
Operations & Maintenance (30 years)	\$31,000
Total	\$251,000



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Swamp Lake Iron-Enhanced Sand

Filter

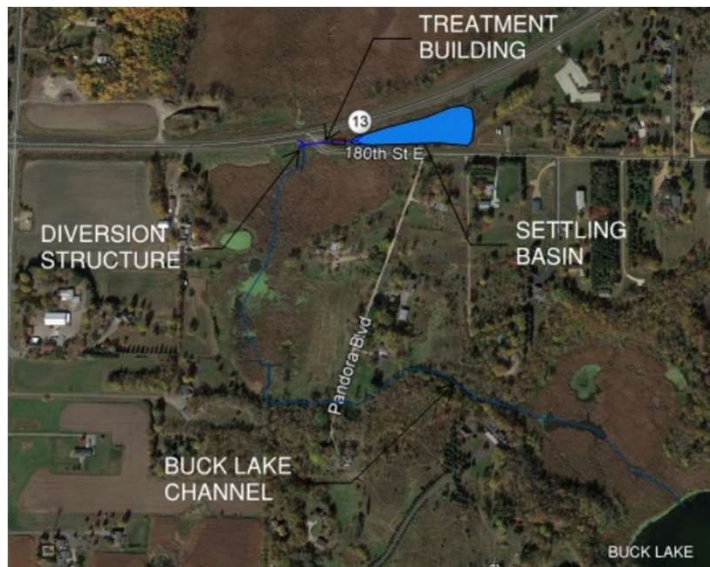
	Estimated Cost
Construction	\$500,000
PLSLWD Staff	\$30,000
Operations & Maintenance (30 years)	\$122,000
Total	\$652,000



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Buck Lake Chemical Treatment System

	Estimated Cost
Construction	\$1,579,000
PLSLWD Staff	\$40,000
Operations & Maintenance (30 years)	\$2,143,000
Total	\$3,762,000



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County Ditch 13 Chemical Treatment System

	Estimated Cost
Construction	\$1,779,000
PLSLWD Staff	\$40,000
Operations & Maintenance (30 years)	\$1,828,000
Total	\$3,647,000



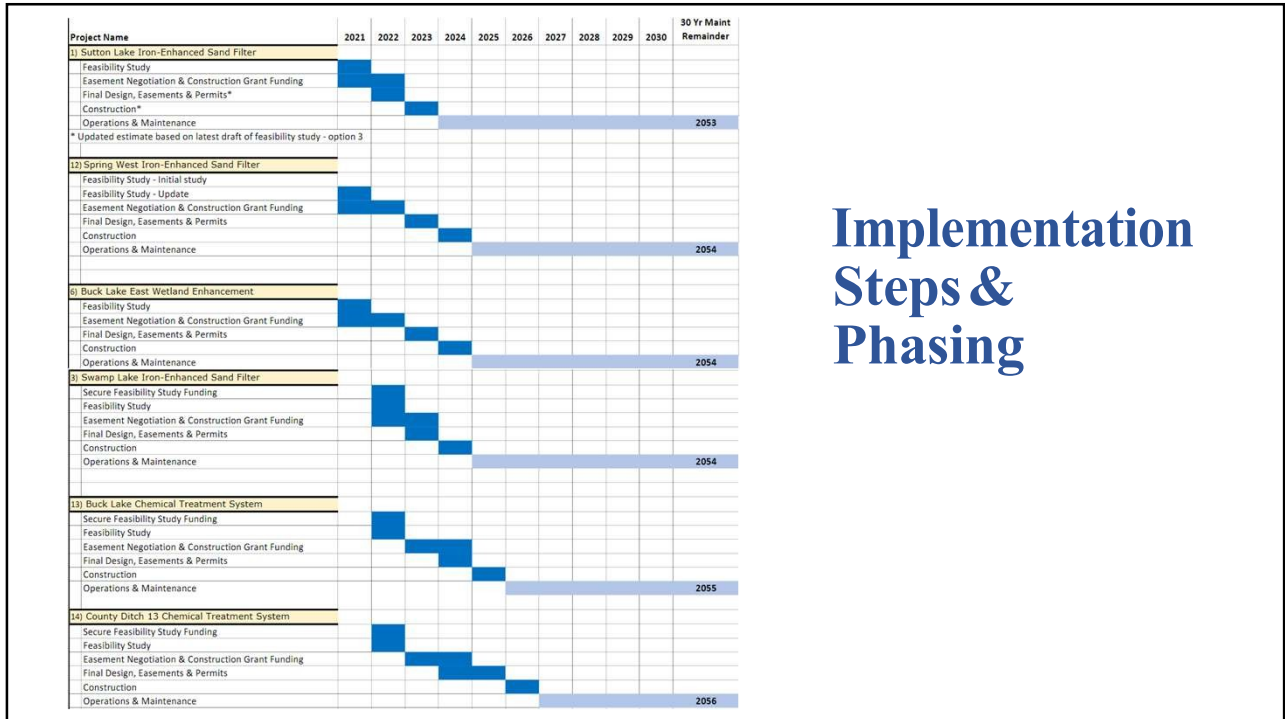
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Cost Summary

- Implementation Funding Sources:
 - District Levy
 - Grants
 - Debt Service (to expedite implementation)

Project	Estimated Cost (with O&M)	Estimated Cost (without O&M)
Sutton Lake Iron Enhanced Sand Filter	\$1,621,000	\$1,438,000
Spring West Iron Enhanced Sand Filter	\$545,000	\$393,000
Buck Lake East Wetland Enhancement	\$251,000	\$220,000
Swamp Lake Iron Enhanced Sand Filter	\$652,000	\$530,000
Buck Lake Chemical Treatment System	\$3,762,000	\$1,619,000
County Ditch 13 Chemical Treatment System	\$3,647,000	\$1,819,000
Total	\$10,478,000	\$6,019,000

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Implementation Steps & Phasing

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Questions?



PRIOR LAKE-SPRING LAKE
WATERSHED DISTRICT

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