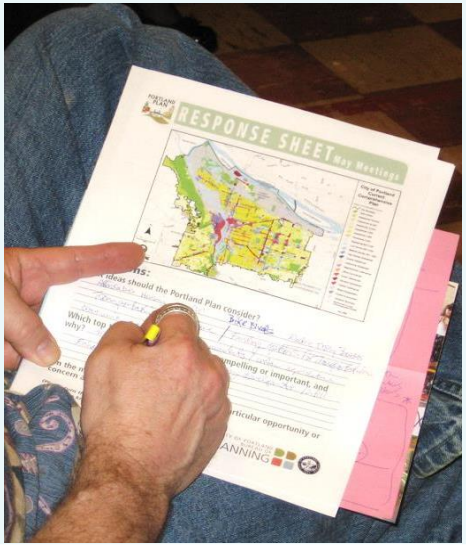
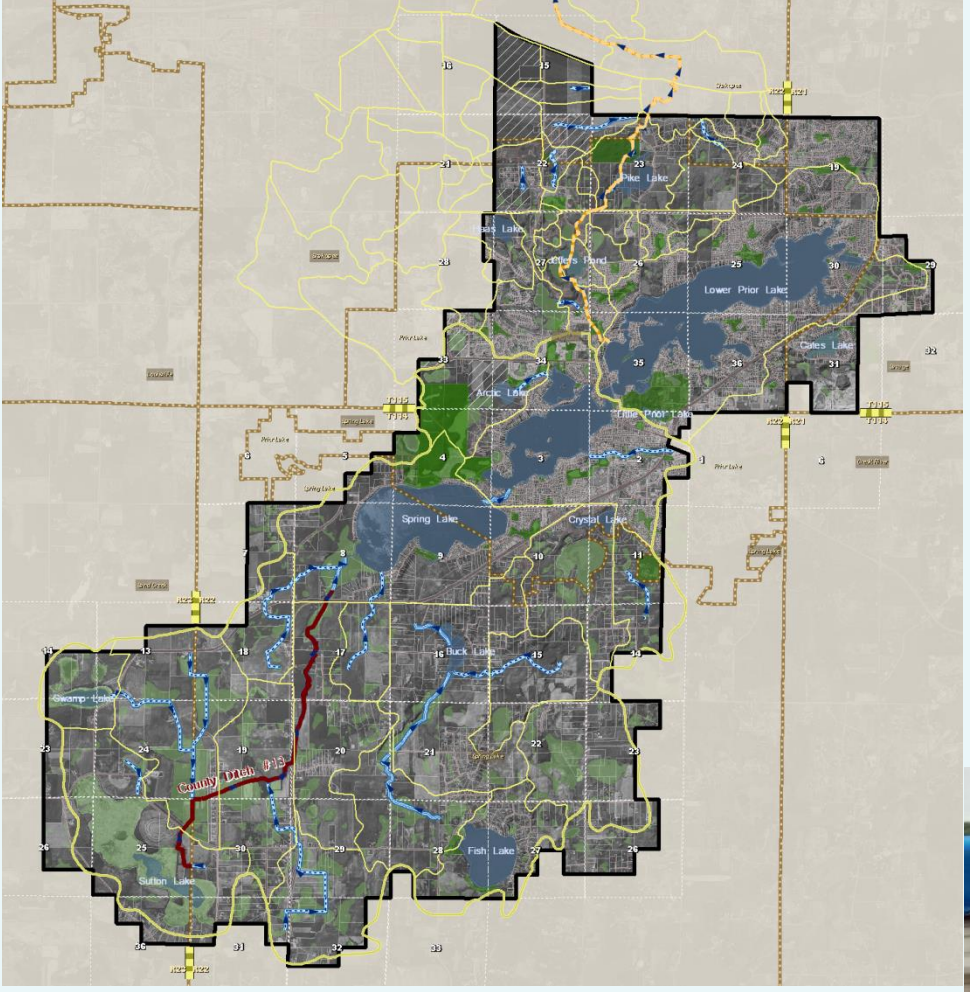
Carl K. Almer & Camilla Correll

October 4, 2018



Why are we here?

1. To learn about the Prior Lake – Spring Lake Watershed Management Plan Update Process
2. To get your feedback on a mapping exercise being performed to identify priority issues
3. To listen to your comments and concerns about watershed management and the District's resources
4. To share how you can remain an active participant in the plan development process

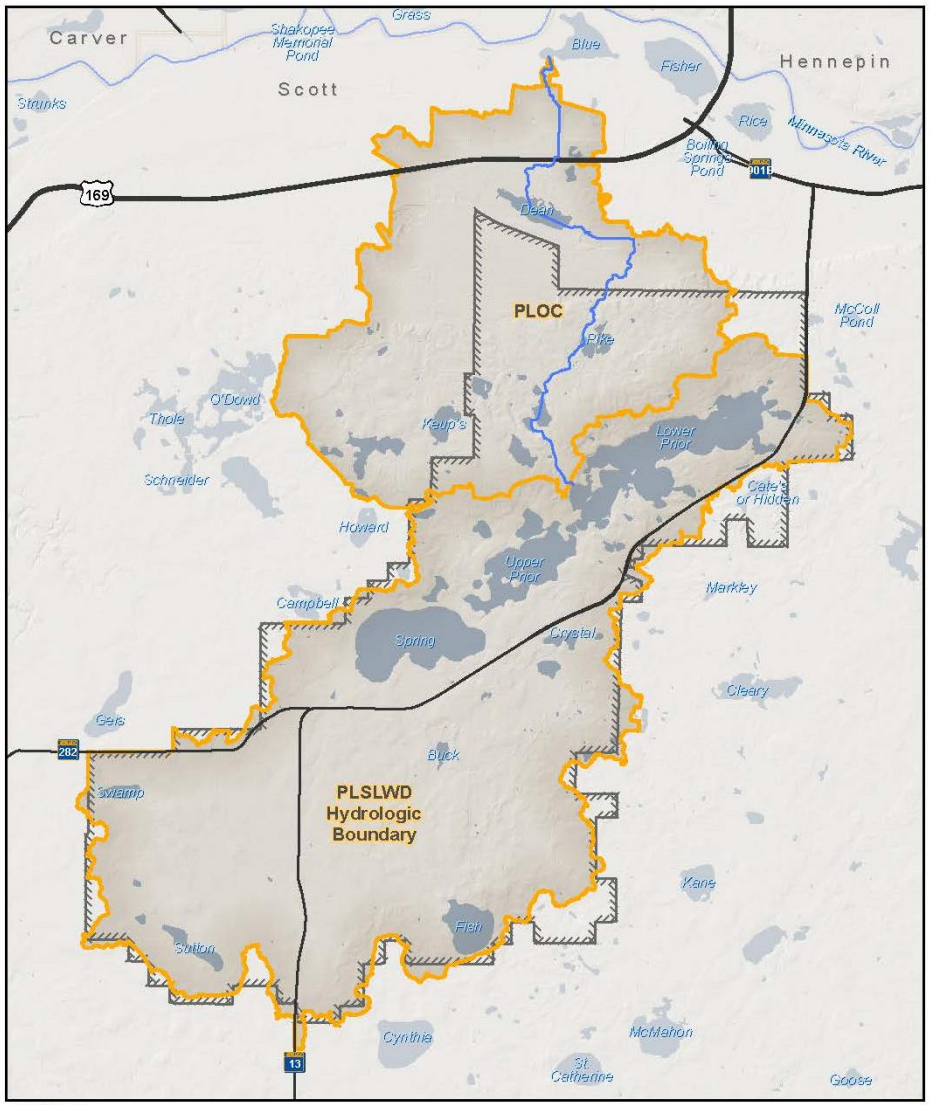


What is a Watershed?

A watershed is an area of land that drains to a single outlet or waterbody.

PLSLWD is 42 square miles. Water flows from the southwest to the northeast through Spring, Upper Prior and Lower Prior Lakes, and then north through the Prior Lake Outlet Channel to the Minnesota River near Valley Fair.

Watershed Characteristics



- Established March 4, 1970
- Located in Scott County, member communities include Prior Lake, Shakopee, Savage, Sand Creek and Spring Lake Township
- Portions of the Shakopee Mdewakanton Sioux Community Tribal Lands located in the WD
- 14 major bodies of water, over 730 wetlands, one County Ditch

Watershed Plan Update Process

I Identification & Prioritization of Resources & Issues

II Establishment of Measurable Goals

III Targeted Implementation Activities

ON-GOING PUBLIC PARTICIPATION

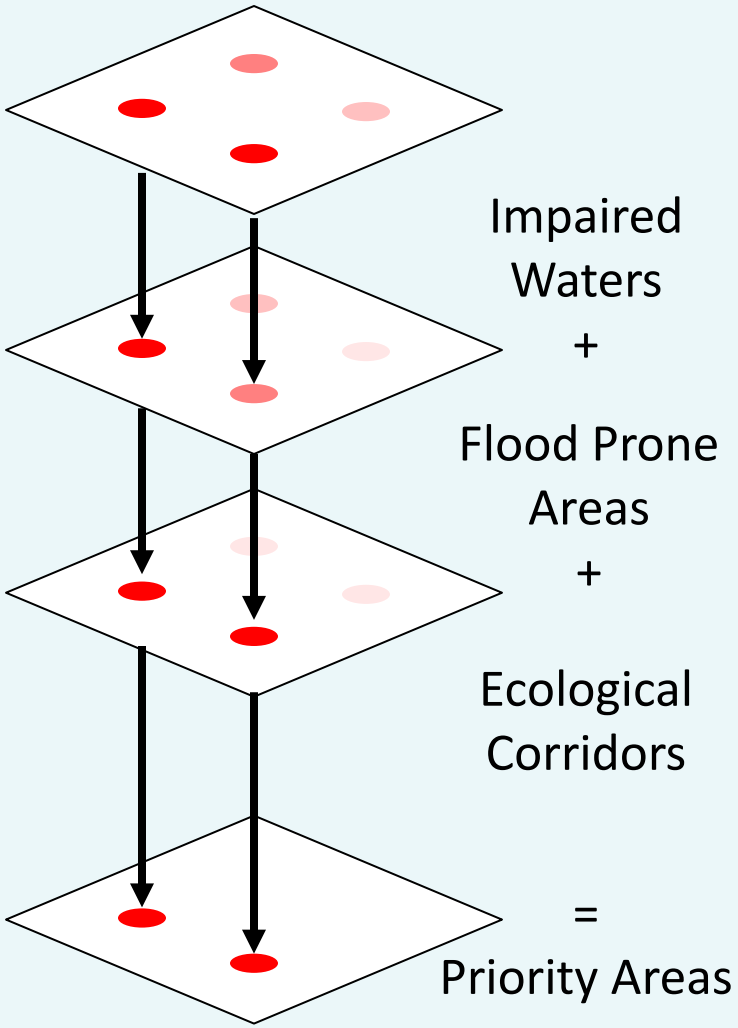
important resources
+ problems & local values
= ranking of important resources and issues

WE ARE HERE

vision for the future
+ local support
= achievable goals for our water resources

buffer enhancements
+ wetland restoration
+ gully stabilization
+ rain gardens
= improved water quality of streams + watershed

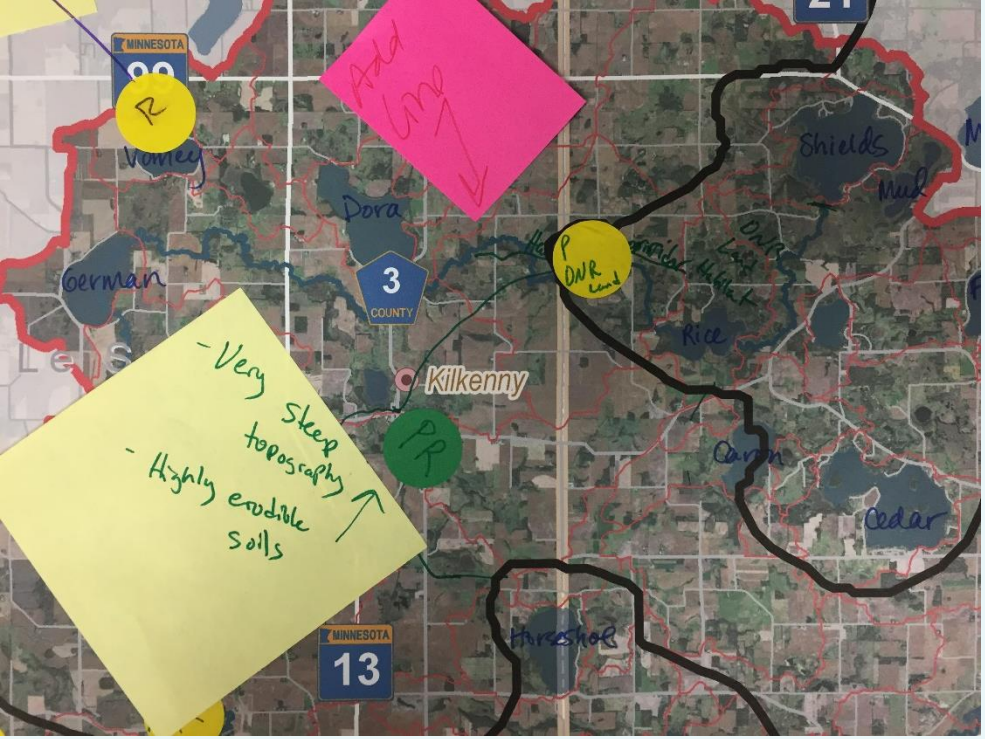
Issues Identification Mapping Exercise



- **Prioritization Tool**
  - Hierarchical prioritization of the landscape based on the occurrence level of features
  - Identifies areas important for restoration and protection
  - Prioritize where issues should be addressed first / what issues can wait until a later date to be addressed?
  - Helps identify multiple benefits or stacked functions

Five Broad-Scale Categories

- **Protect or Improve Water Quality**
- **Reduce Flooding**
- **Protect or Improve Recreation, Aesthetic, and Wildlife Habitat Benefits**
- **Focus BMPs in Landuses of Concern**
- **Protect Groundwater**

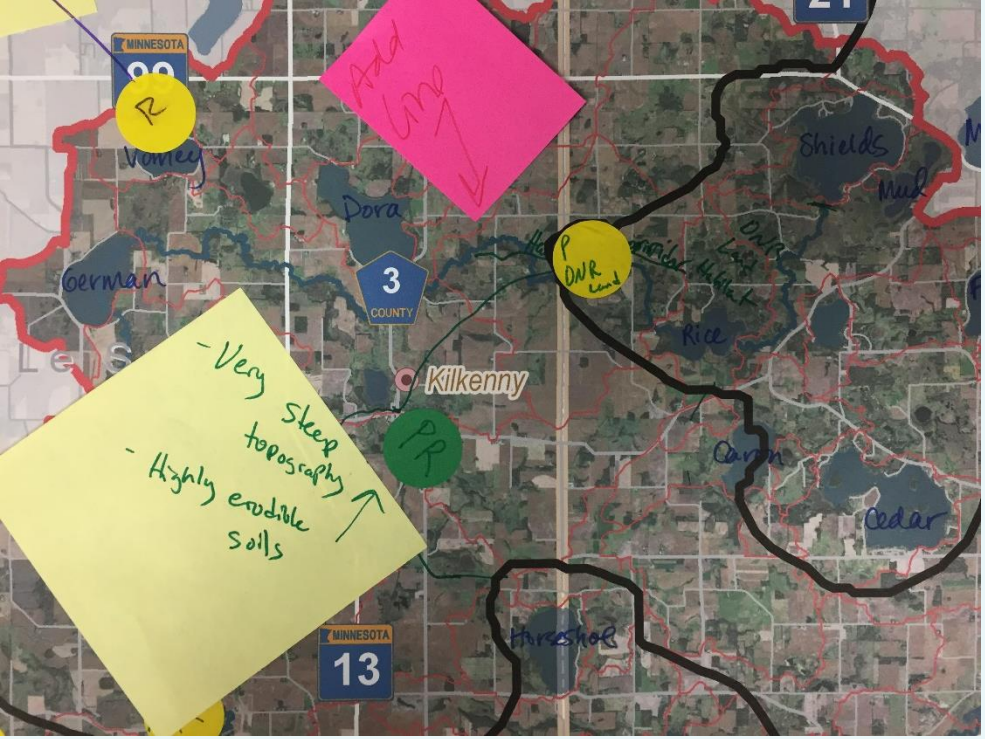


Small Group Activity

- **Go to the table that matches the number on your name tag**
  1. **Protect or Improve Water Quality**
  2. **Reduce Flooding**
  3. **Protect or Improve Recreation, Aesthetic, and Wildlife Habitat Benefits**
  4. **Focus BMPs in Landuses of Concern**
  5. **Protect Groundwater**

- **Spend 15 minutes reviewing and discussing the map: what information was used to generate the map, what does it tell us, is anything missing?**

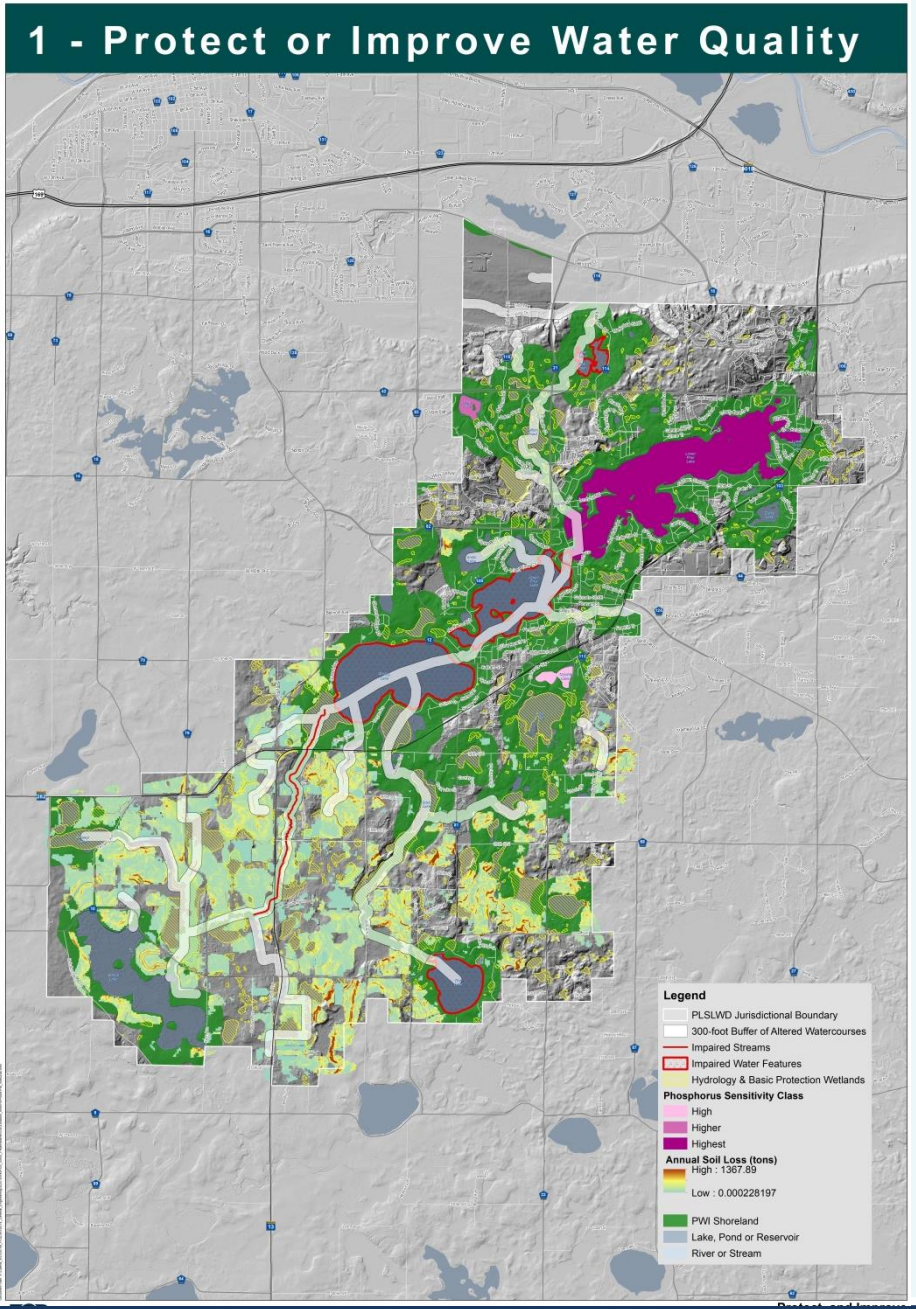
- **Use Post-It notes to add your comments to the map**



Small Group Activity

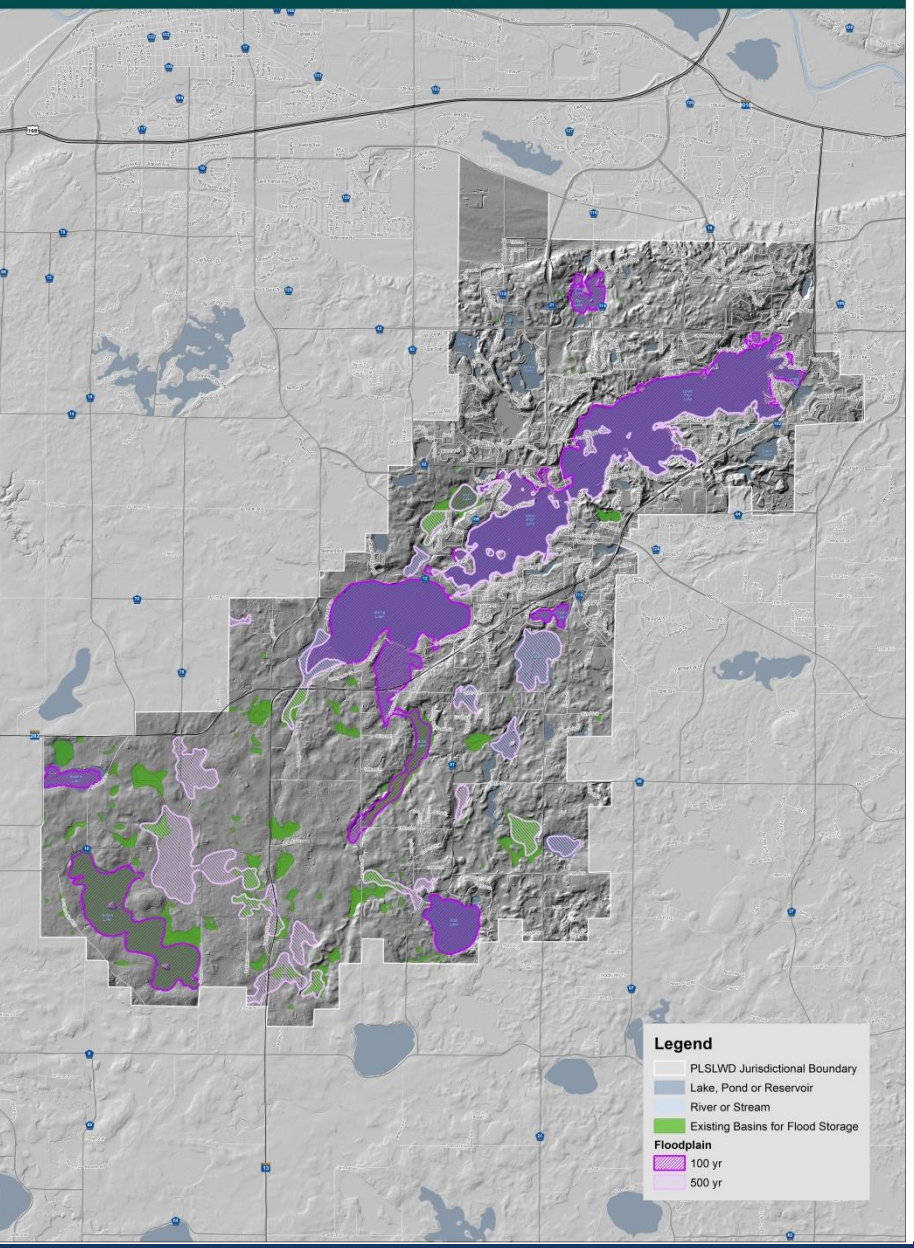
Review / Discuss Priority Area Maps

- What issues and/or protection areas are of concern to you?
- Are issues/concerns unique to smaller priority areas or are they watershed-wide issues and concerns?
- Do you know of localized flooding/drainage, areas of biodiversity, areas of high recreational value, etc. that aren't identified on the maps?



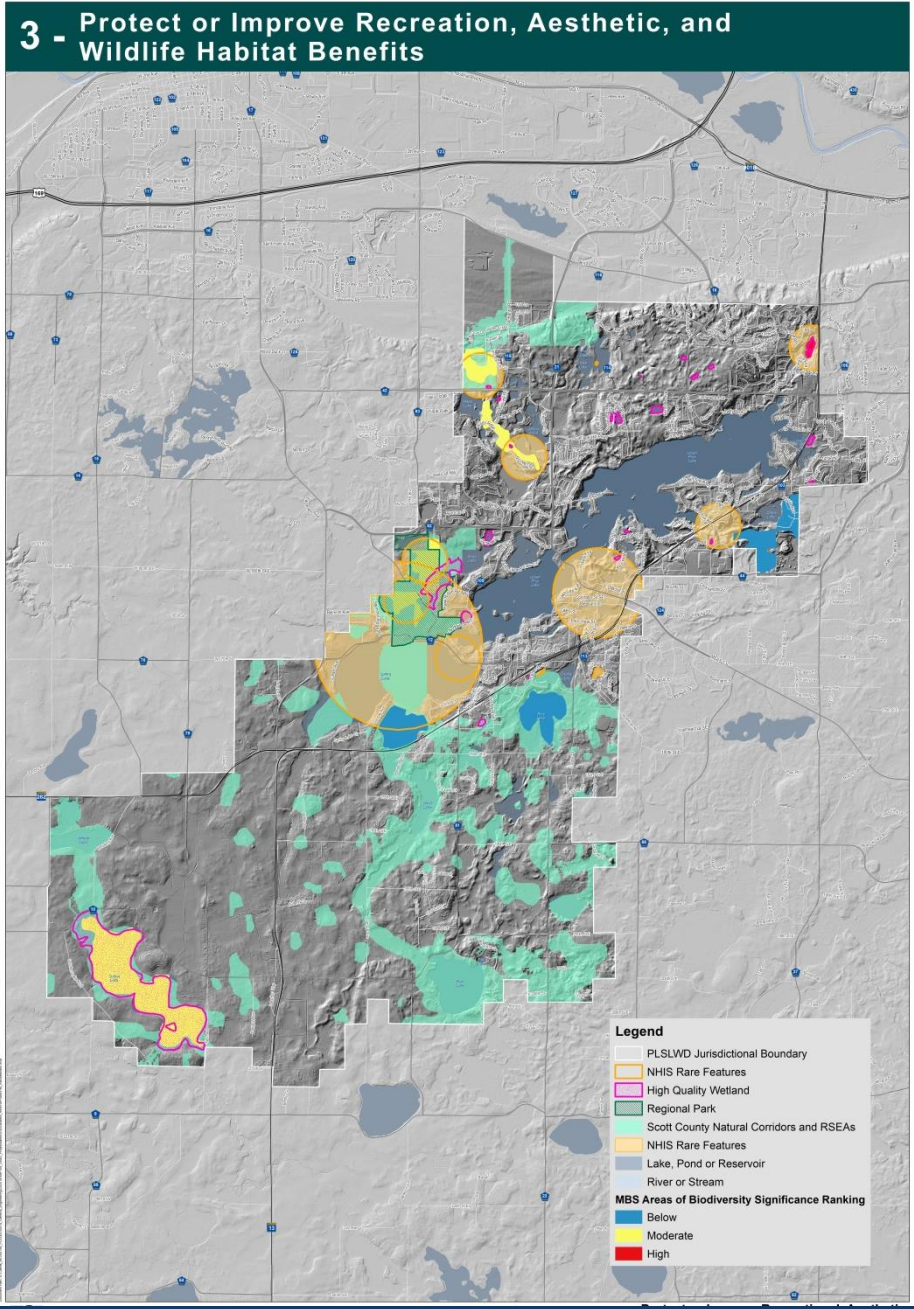
Protect or Improve Water Quality

- Impaired waters
- Lakes vulnerable to phosphorous addition
- Shoreland (1,000’ for lakes and wetlands & 300’ for streams)
- Altered watercourses
- Areas with high soil loss potential



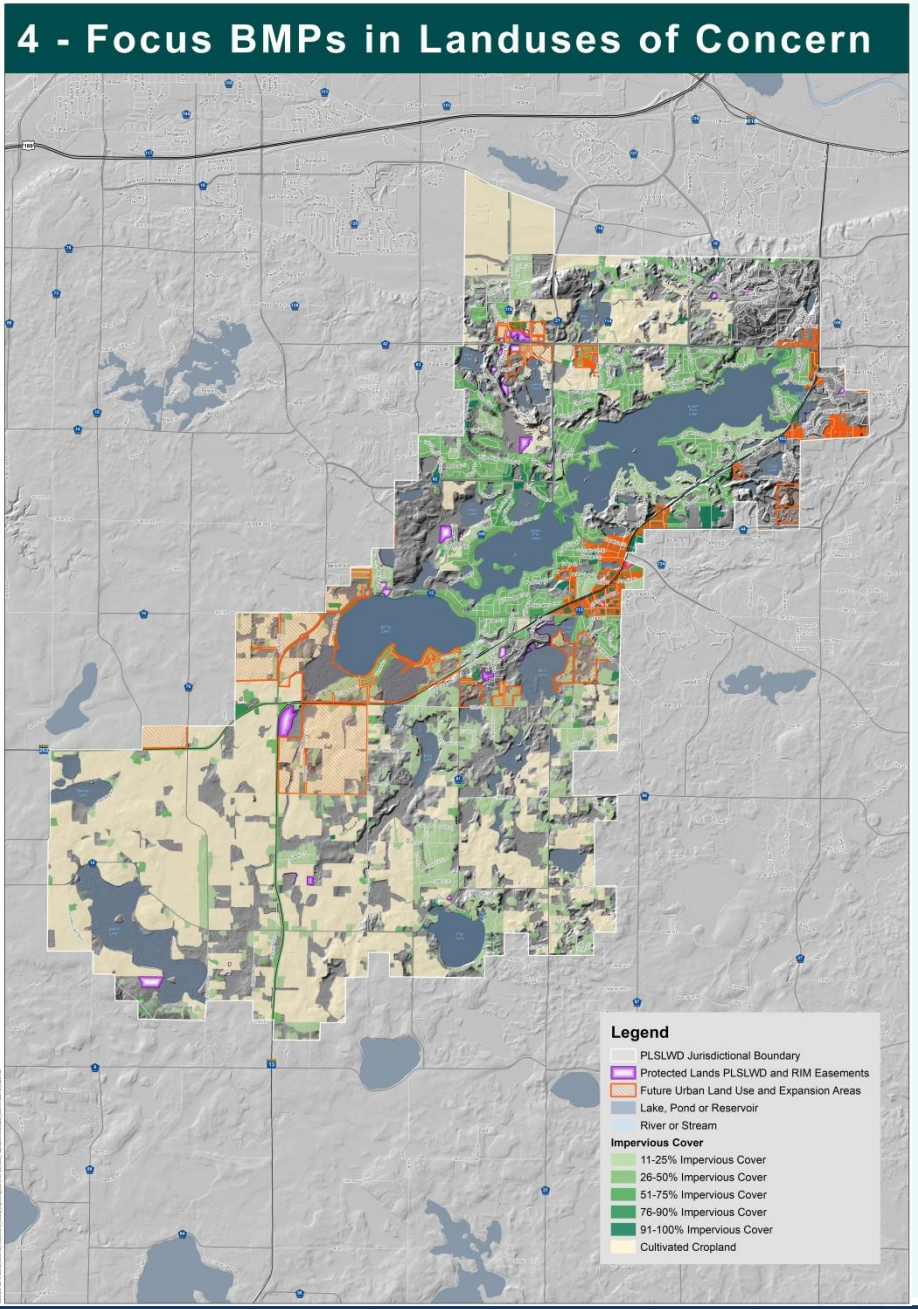
Reduce Flooding

- **Enhance Existing basins/wetlands for flood storage**
- **Scott County Regional Ponds**
- **Flood prone (floodplain) areas**



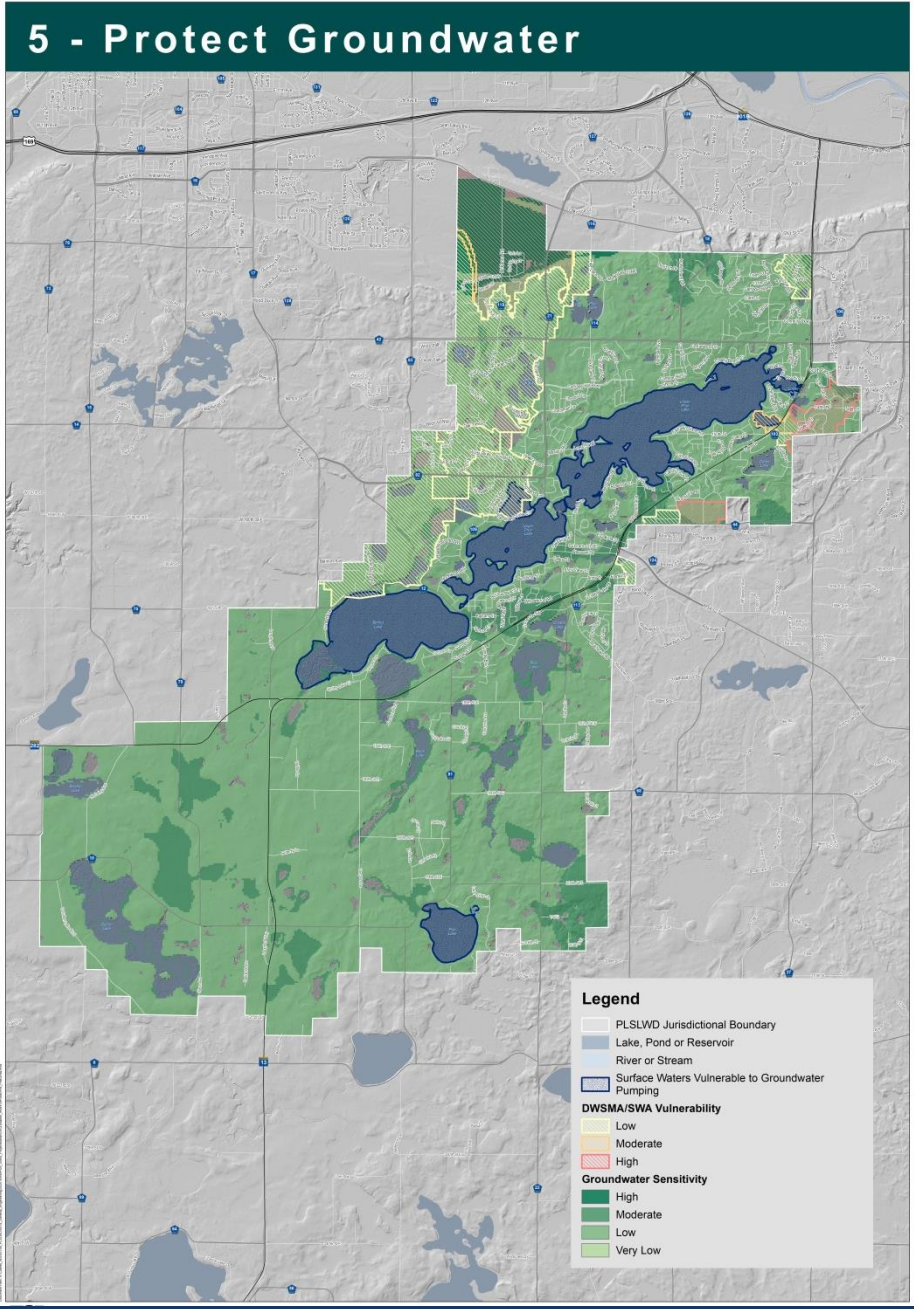
Protect or Improve Recreation, Aesthetic and Wildlife Benefits

- Rare plants or animals
- Site of biodiversity significance
- Ecological corridors
- Scott County Natural Corridors
- Existing regional parks
- High quality wetlands



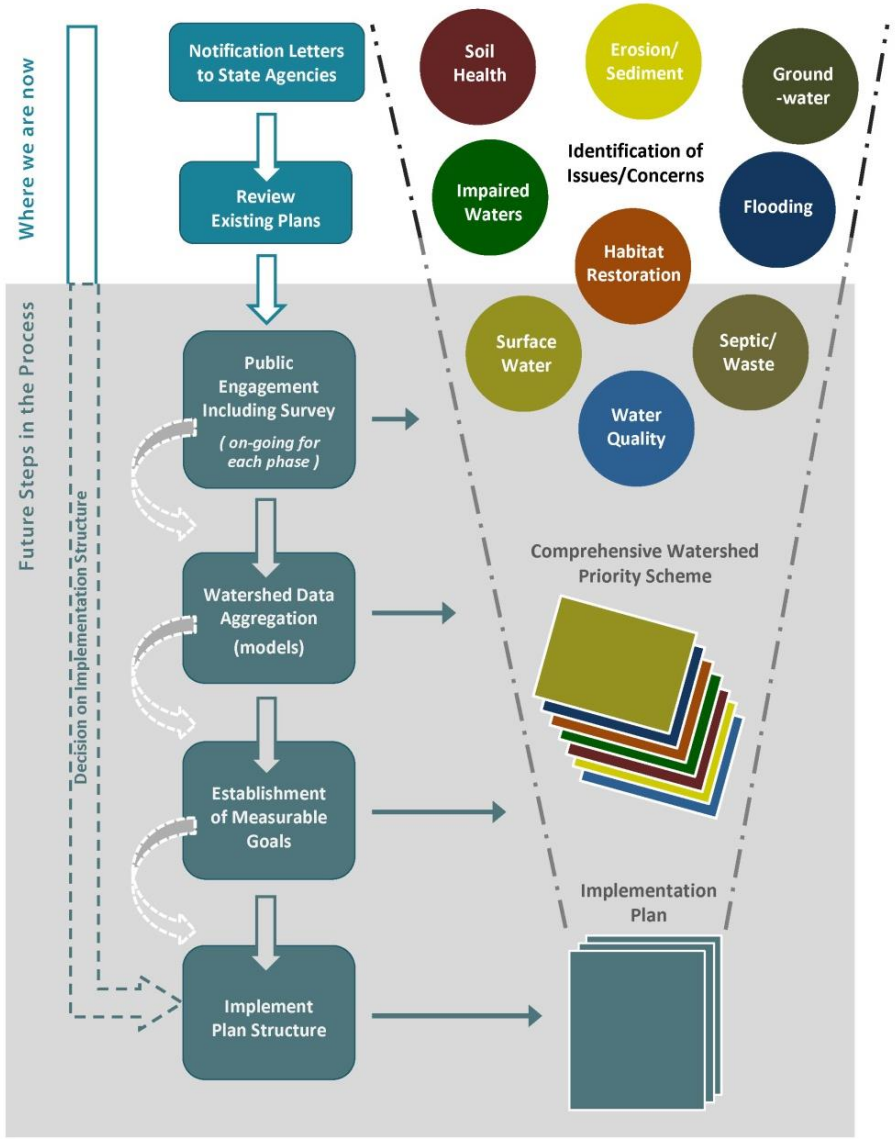
Focus BMPs in Landuses of Concern

- Vulnerable cultivated areas
- Protected lands (easements)
- Existing urban areas
- Cultivated cropland
- Future urban areas



Protect Groundwater

- **Drinking Water Supply Management Area (DWSMA) vulnerability & Drinking source water assessment**
- **Groundwater contamination susceptibility**
- **Areas with surface water-groundwater interactions**



Meetings

Board Workshops

- 4/10/18 – Plan Approach
- 8/1/18 – Prioritization Survey
- 10/24/18 – Issues/Mapping Exercise
- 12/19/18 – Measurable Goals
- March/April 2019 – Implementation Plan

TAC Meetings

- 8/16/18 – Issues, Prioritization Survey
- 10/18/18 – Issues/Mapping Exercise
- December 2018 – Measurable Goals

CAC Meetings

- 9/27/18 – Issues/Mapping Exercise
- 12/13/18 – Measurable Goals

FLC Meetings

- August 2018 – Issues/Survey to all Farmers

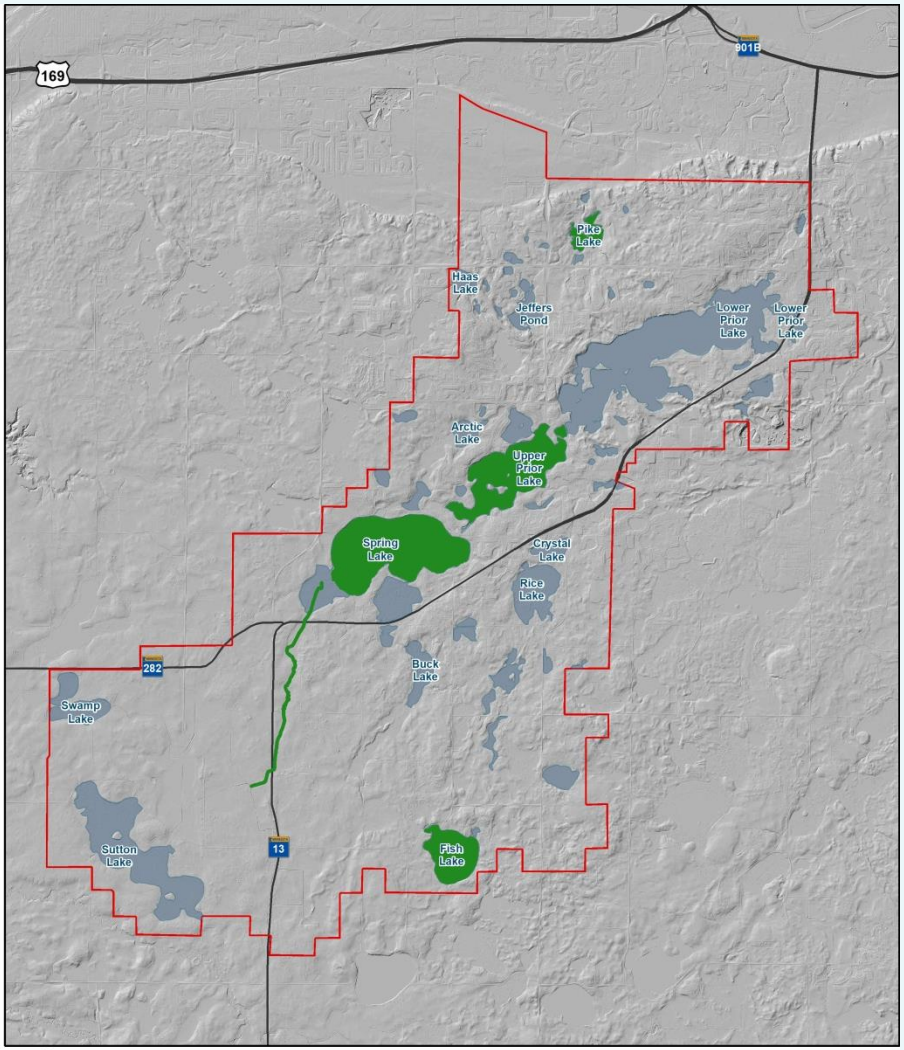
Public Meetings

- 10/4/18 – Project Kickoff
- Winter 2018/19 – Measurable Goals
- Spring 2019 – Draft Implementation Plan


• Contribute your thinking and experience
• Share Ideas without sharing perspectives
• Listen to understand
• Connect ideas
• Focus on what matters

Questions?

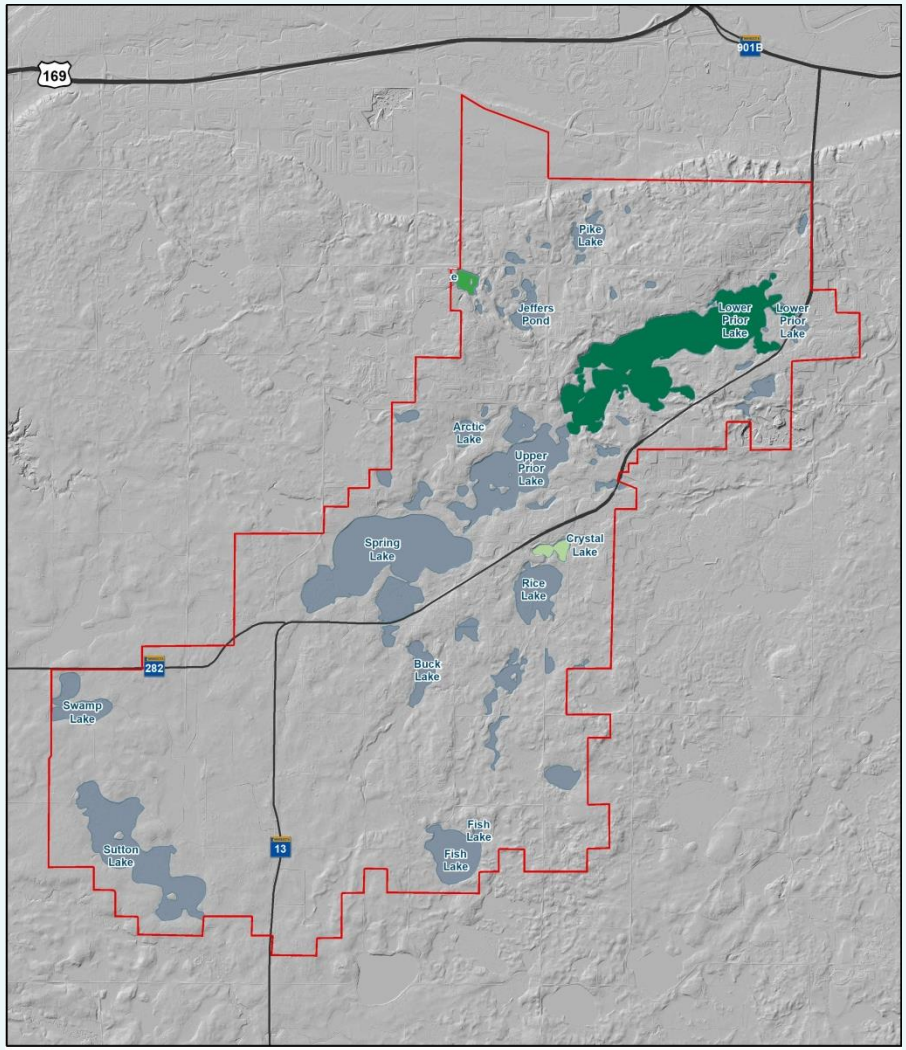
Protect or Improve Water Quality



PLSLWD Jurisdictional Boundary
Public Waters
Impaired Water Features

Protect or Improve Water Quality
Focus on Impaired Waters

Miles 0 1.5



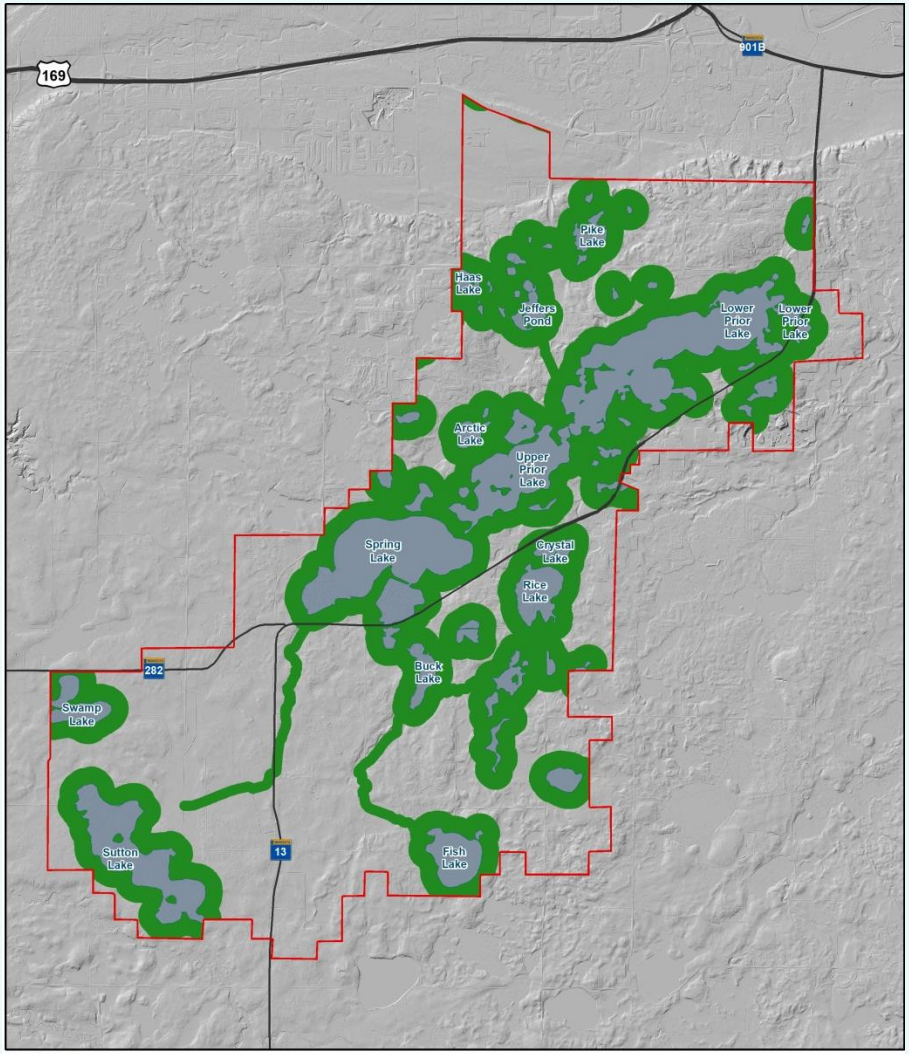
PLSLWD Jurisdictional Boundary
Public Waters

Phosphorus Sensitivity Class
High
Higher
Highest

Protect or Improve Water Quality
Protect Lakes Vulnerable to Phosphorus Addition

Miles 0 1.5

Protect or Improve Water Quality

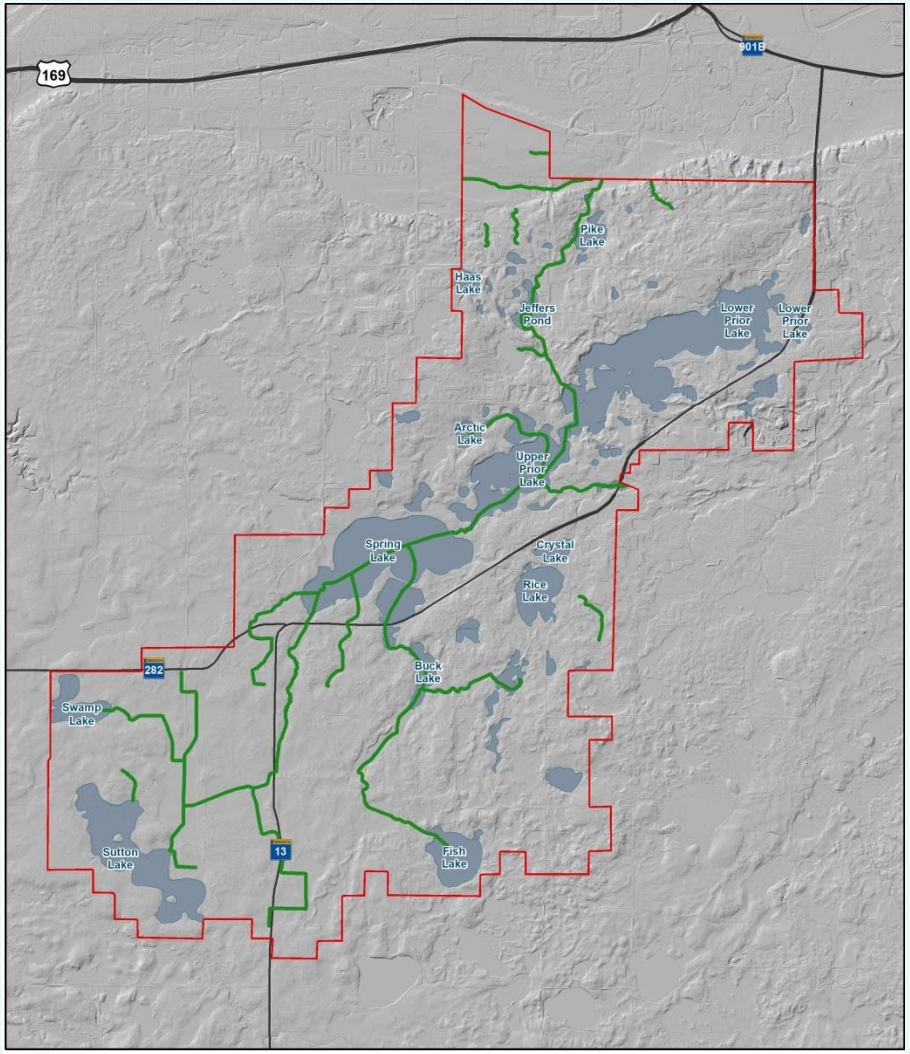


EOR water ecology community

PLSLWD Jurisdictional Boundary
Public Waters
PWI Shoreland

Protect or Improve Water Quality
Protect or Restore Shoreland

Miles
0 1.5



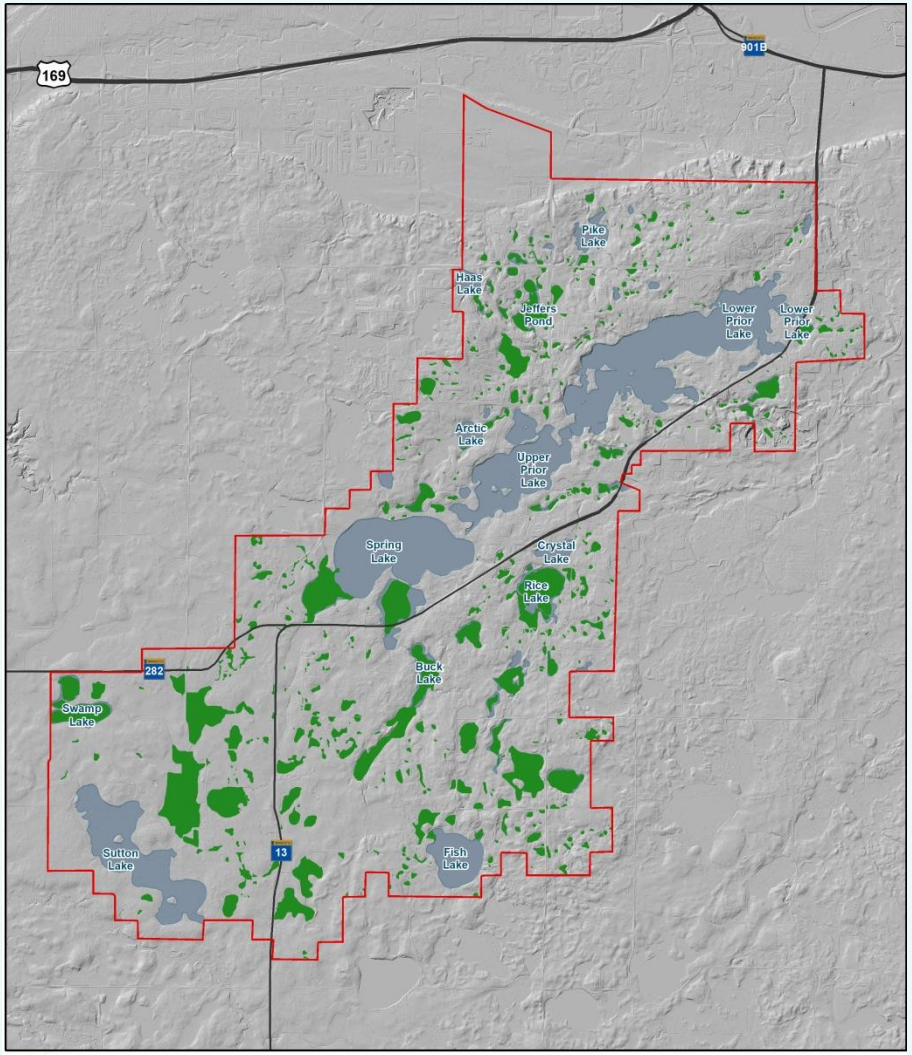
EOR water ecology community

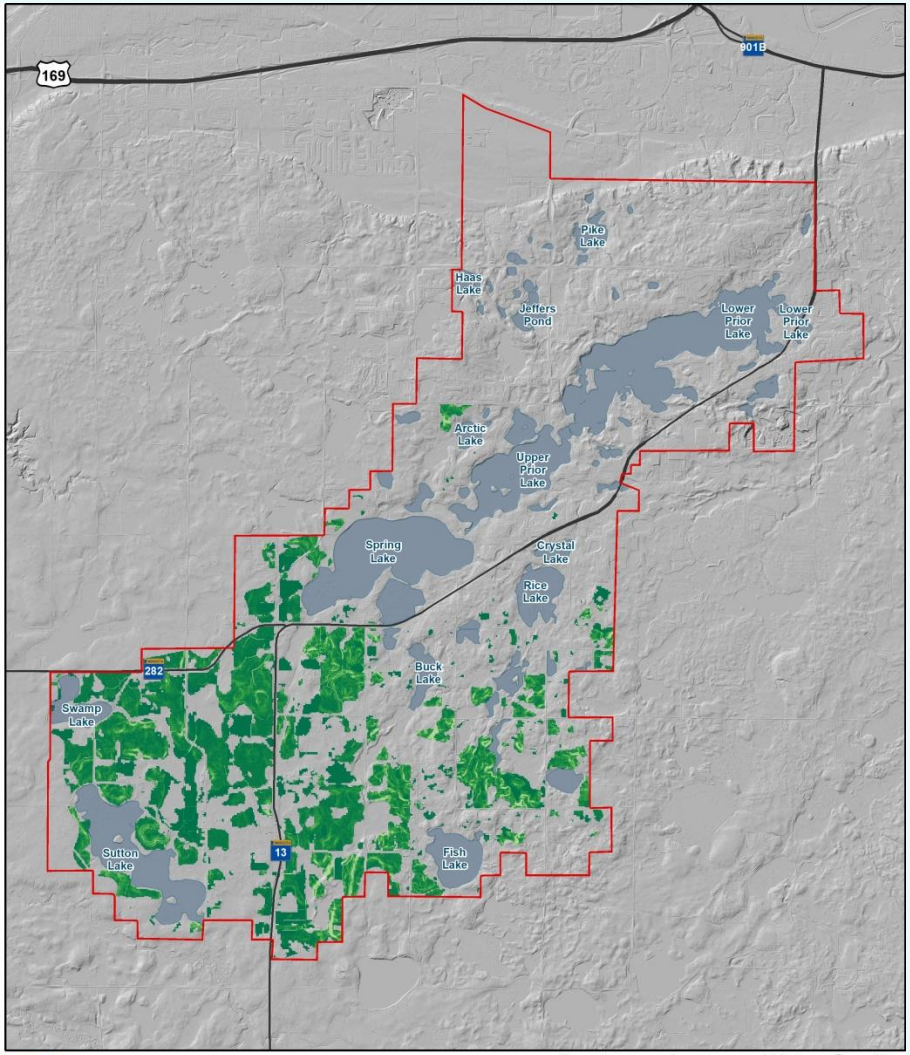
PLSLWD Jurisdictional Boundary
Public Waters
Altered Watercourses

Protect or Improve Water Quality
Restore Altered Drainage Systems

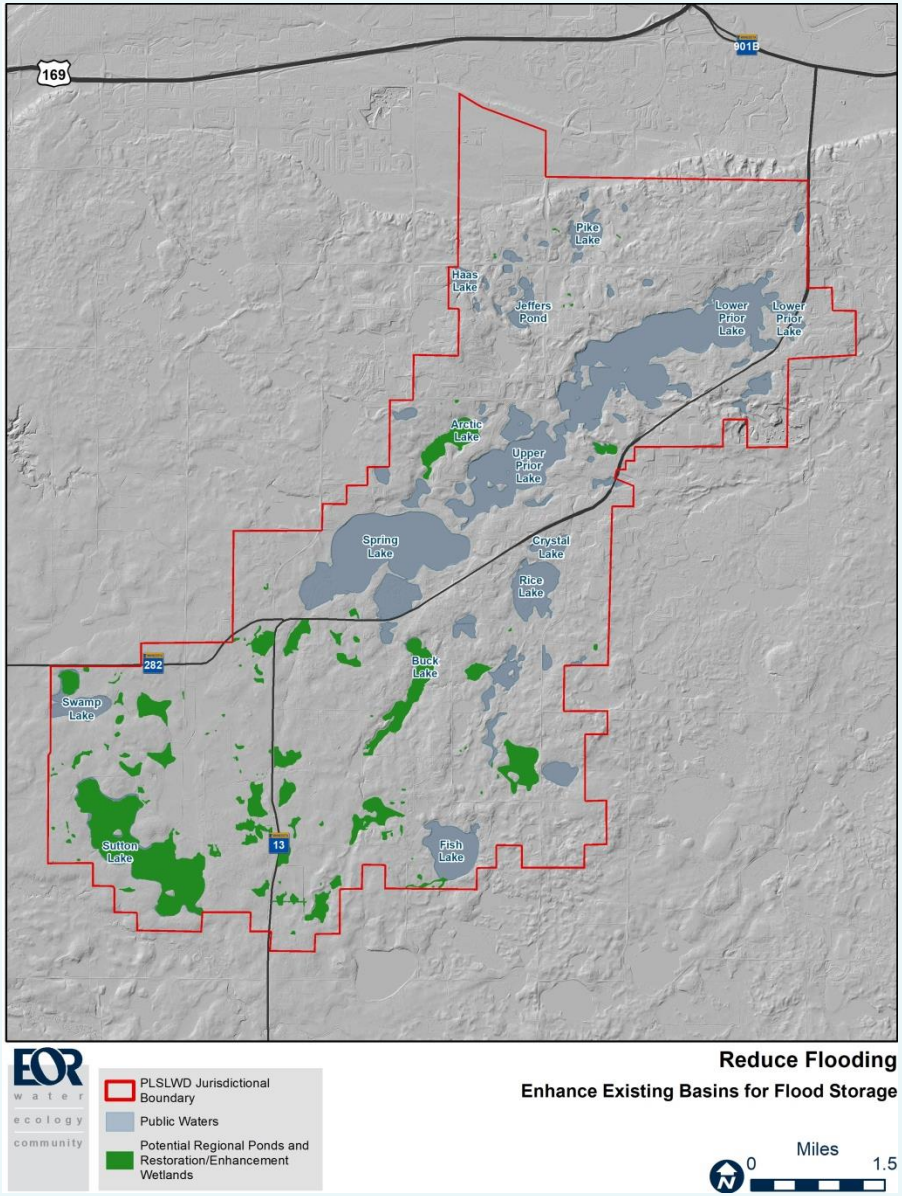
Miles
0 1.5

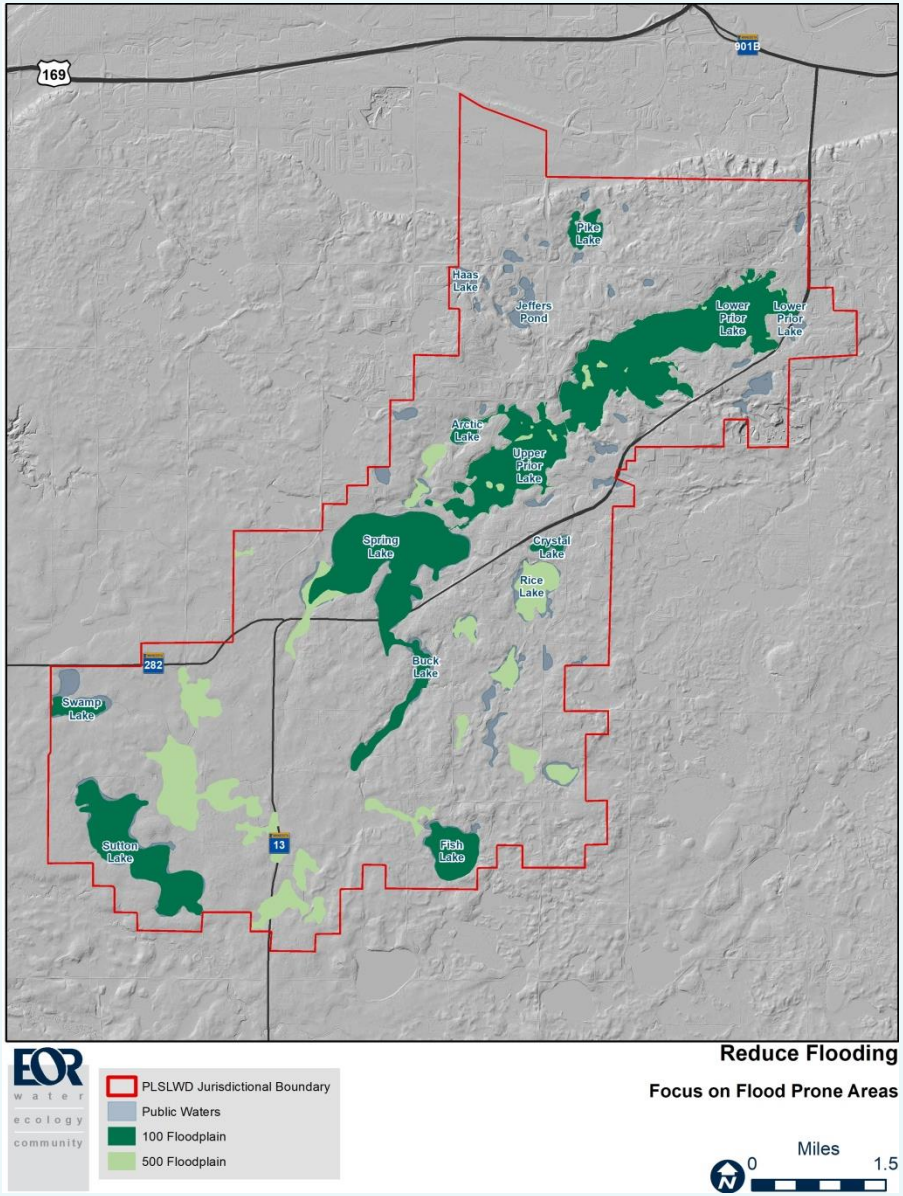
Protect or Improve Water Quality



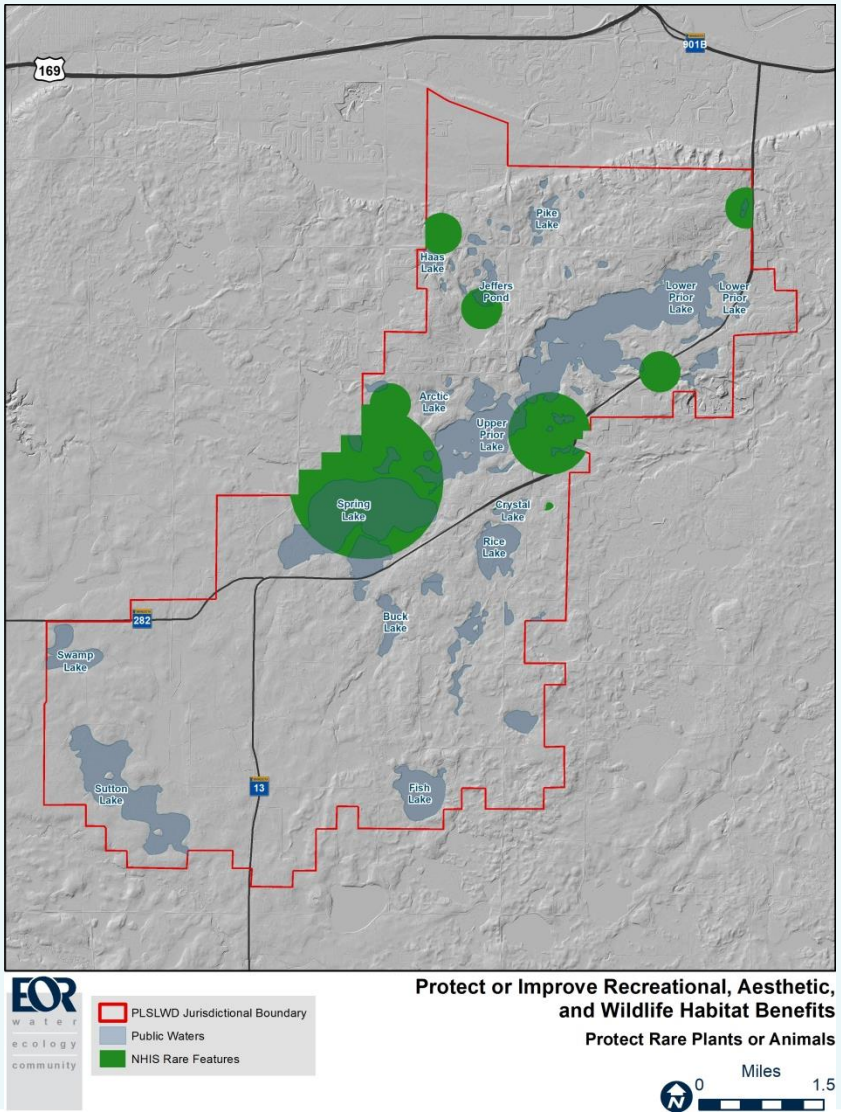


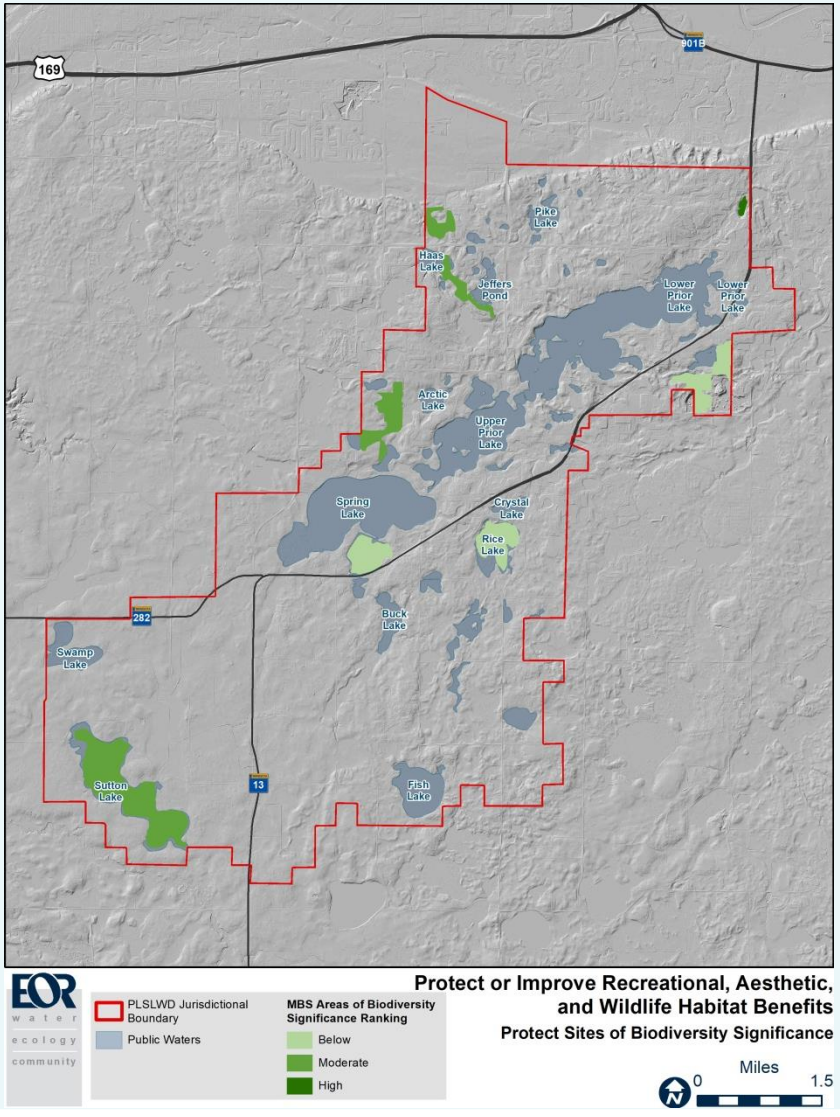
Reduce Flooding



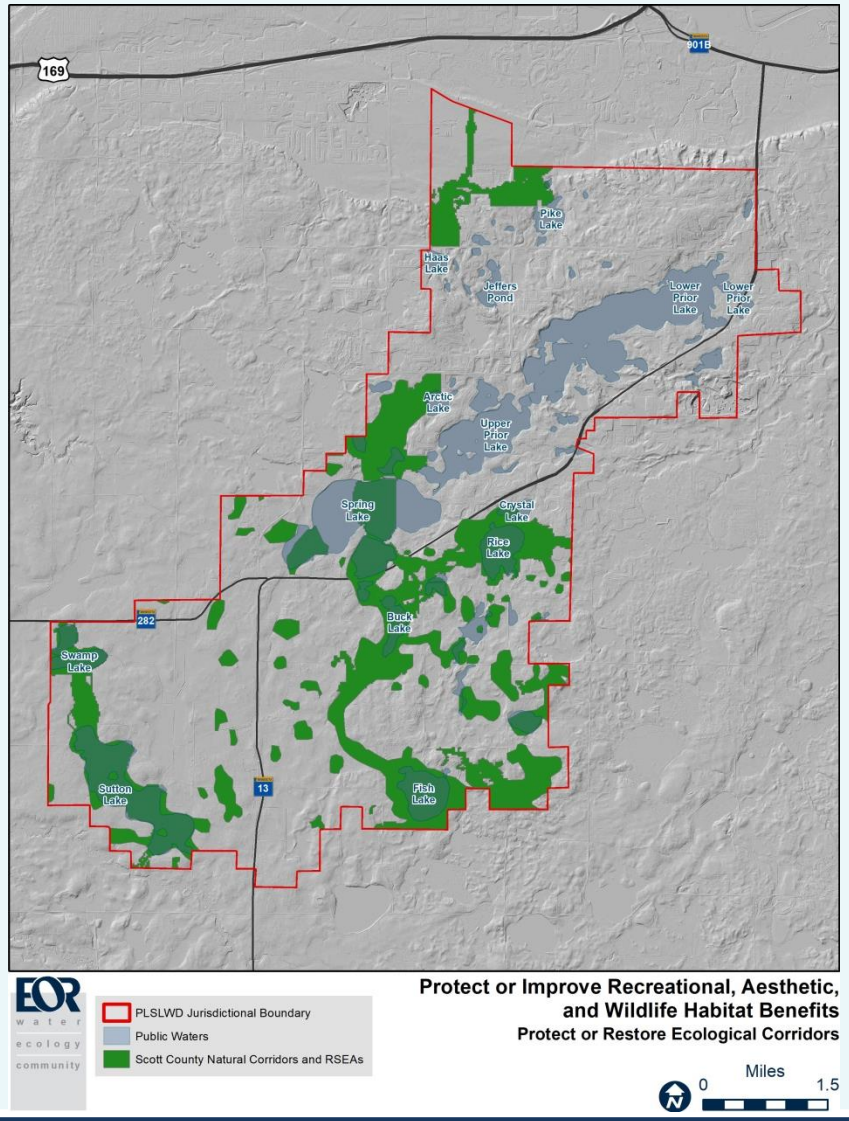


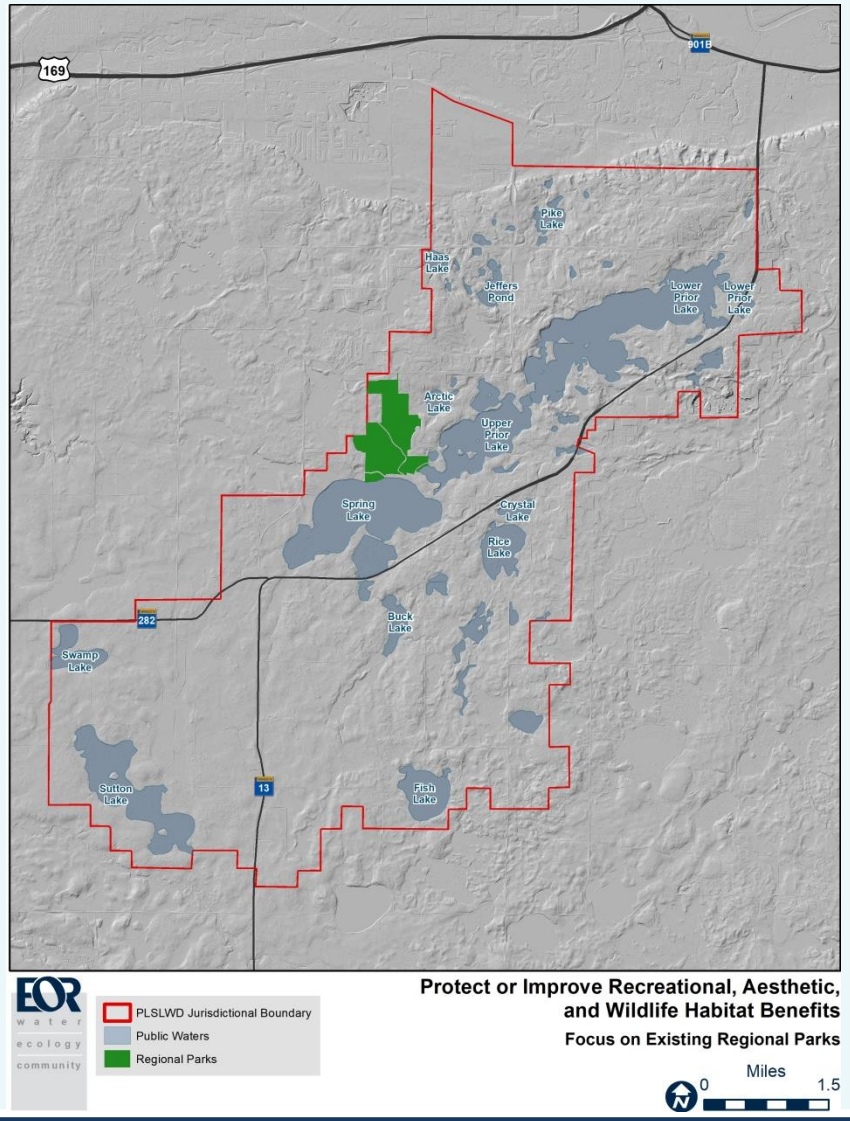
Protect or Improve Recreational, Aesthetic, and Wildlife Habitat Benefits



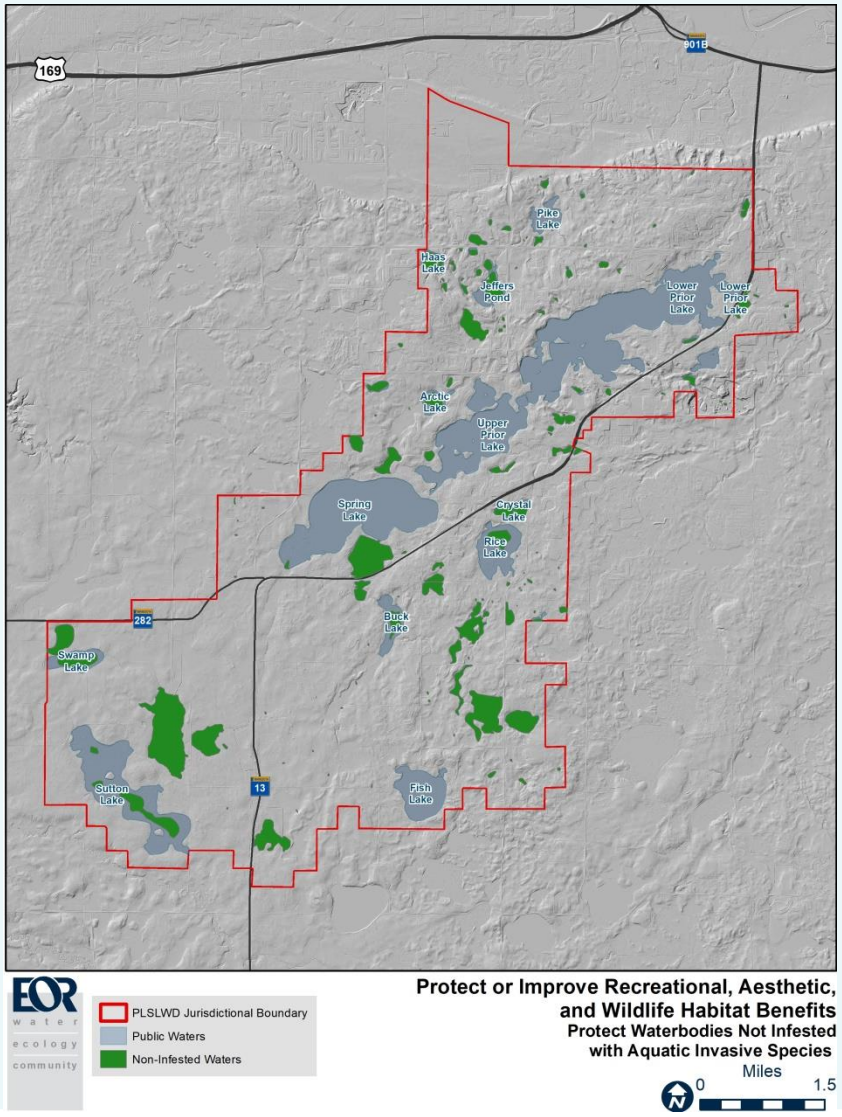


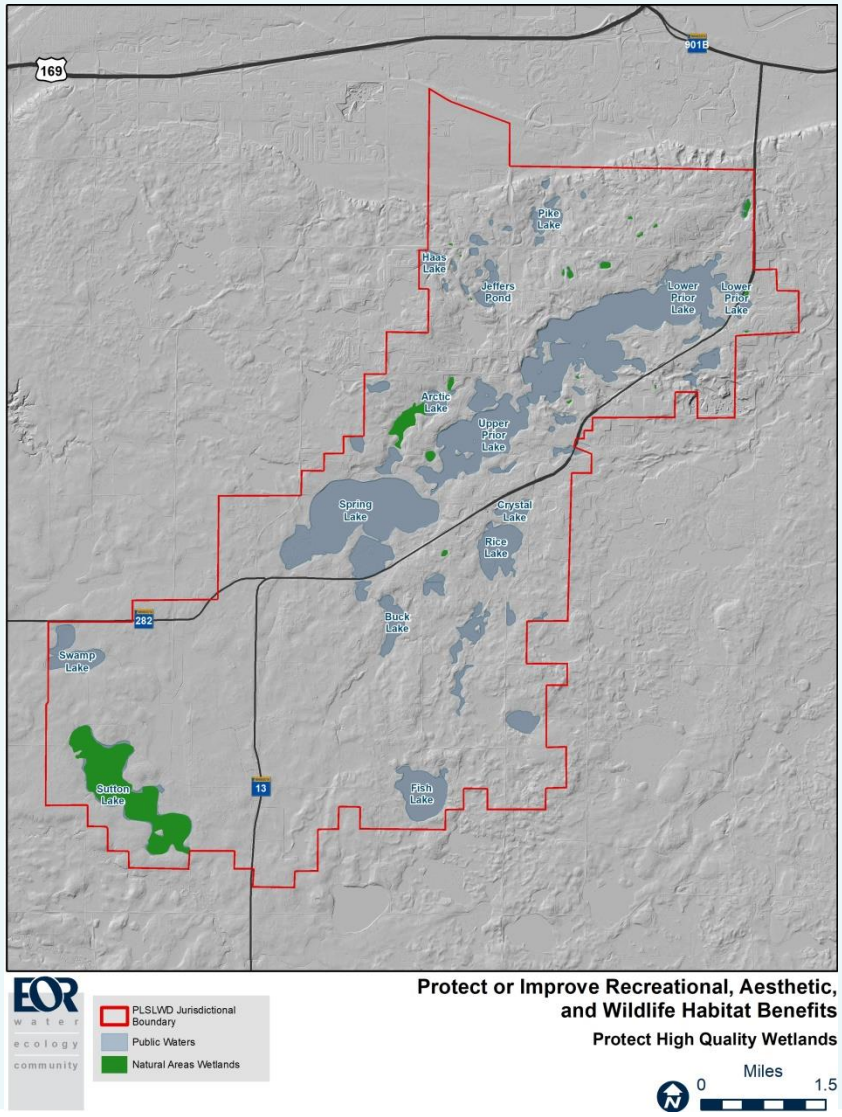
Protect or Improve Recreational, Aesthetic, and Wildlife Habitat Benefits



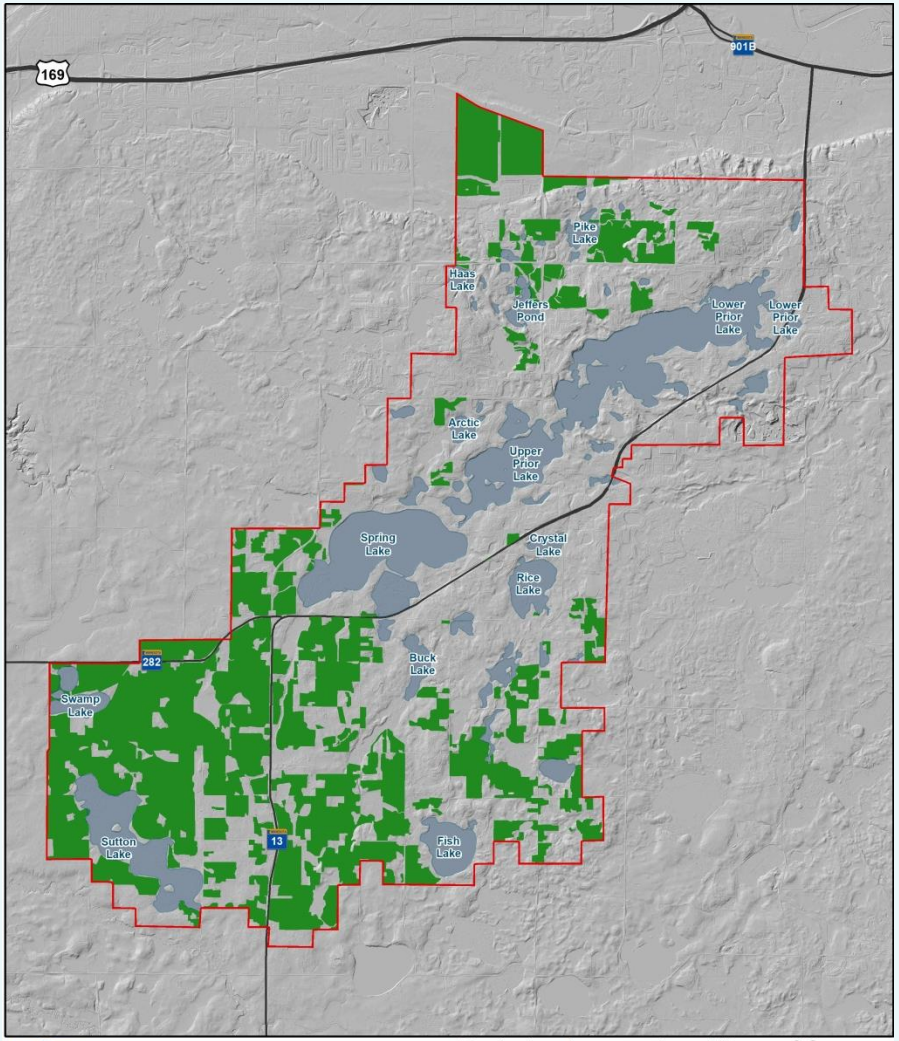


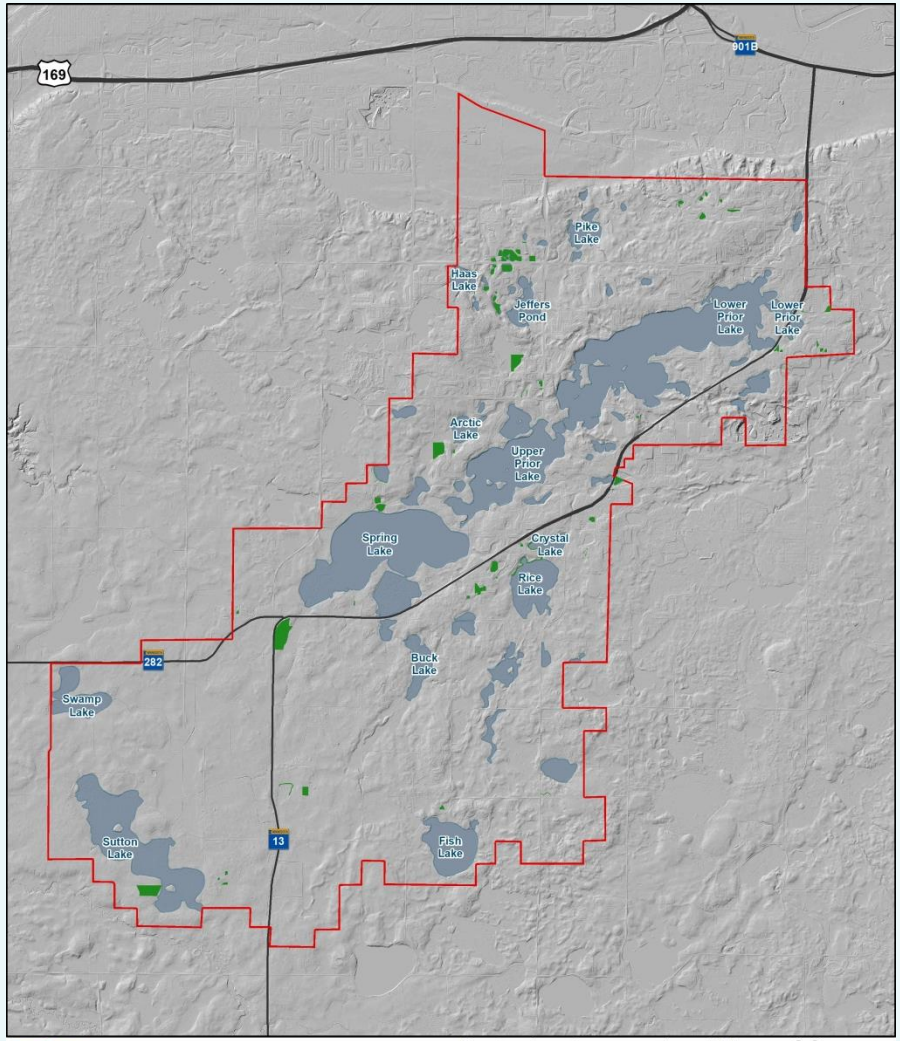
Protect or Improve Recreational, Aesthetic, and Wildlife Habitat Benefits



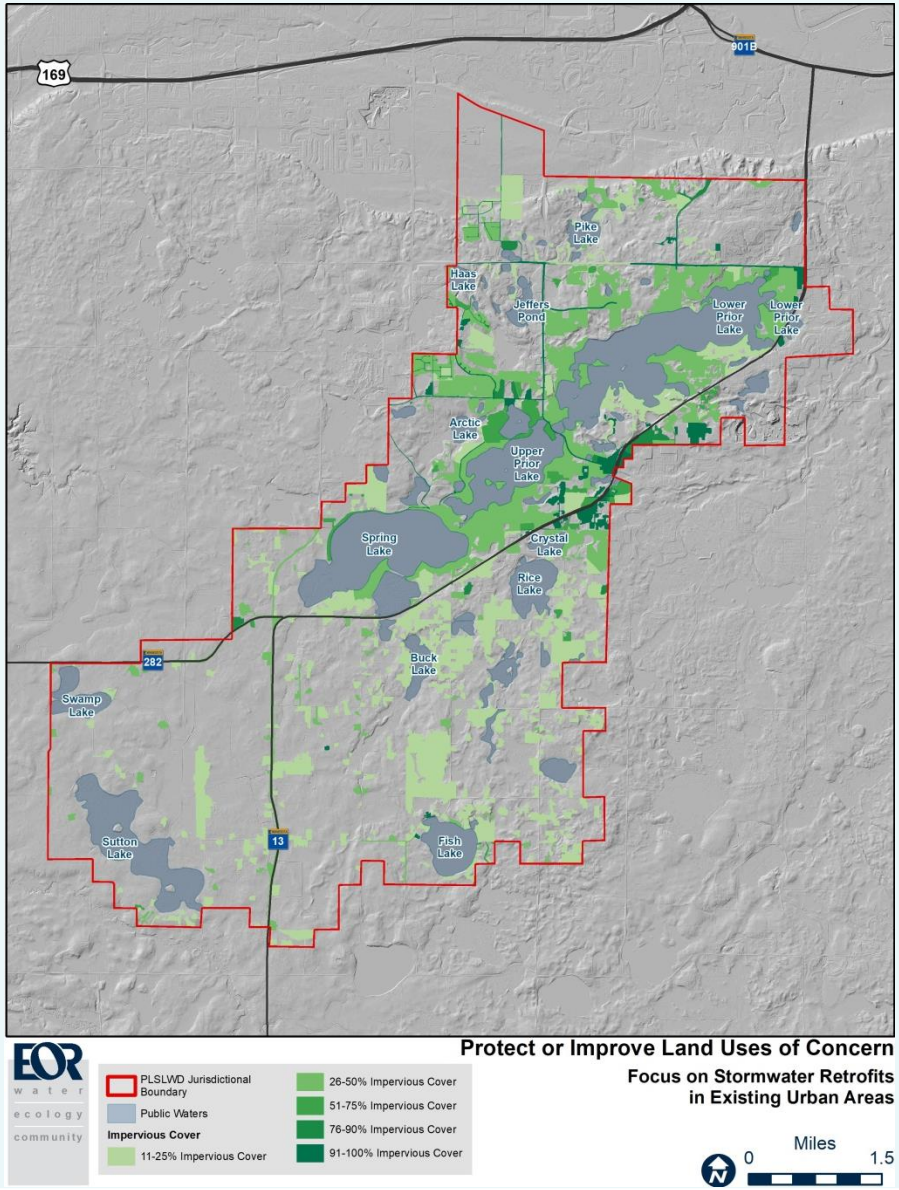


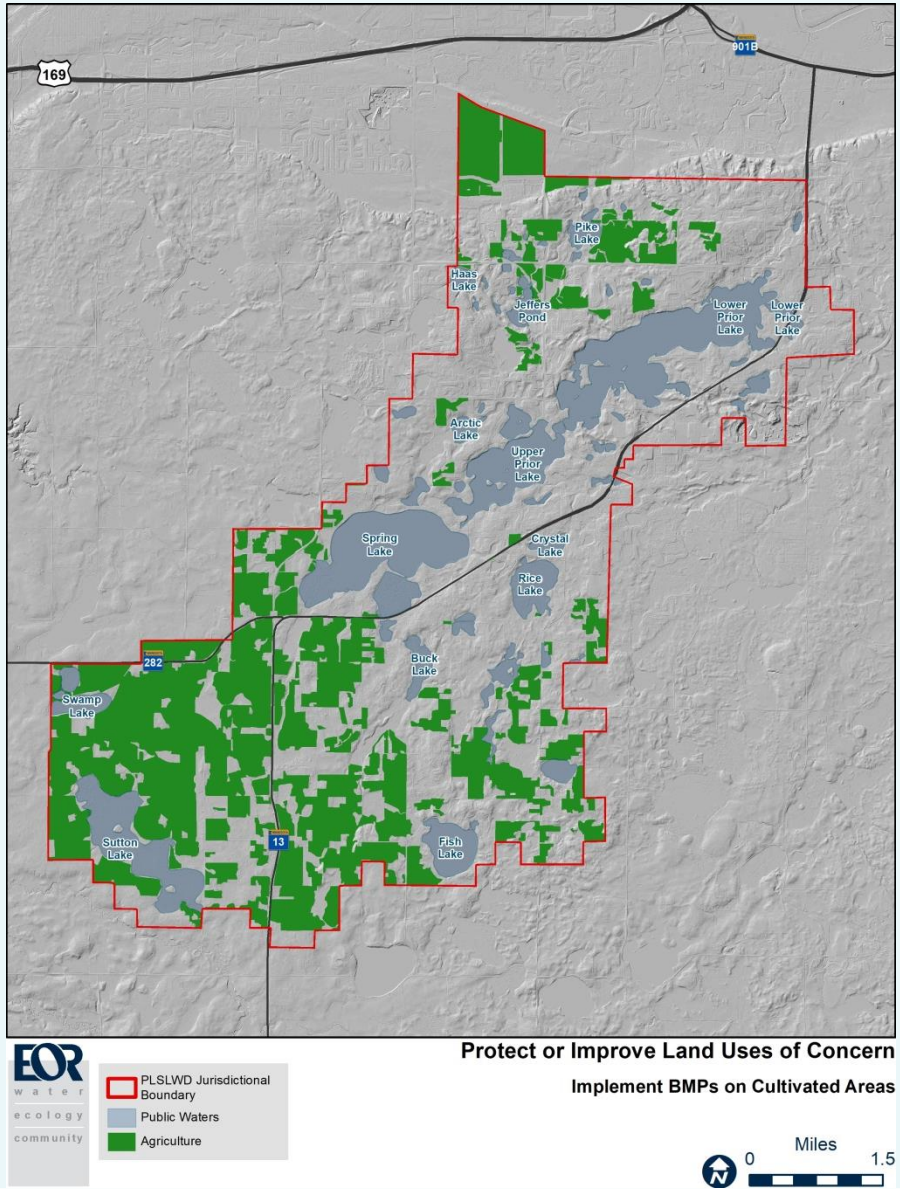
Protect or Improve Land Uses of Concern



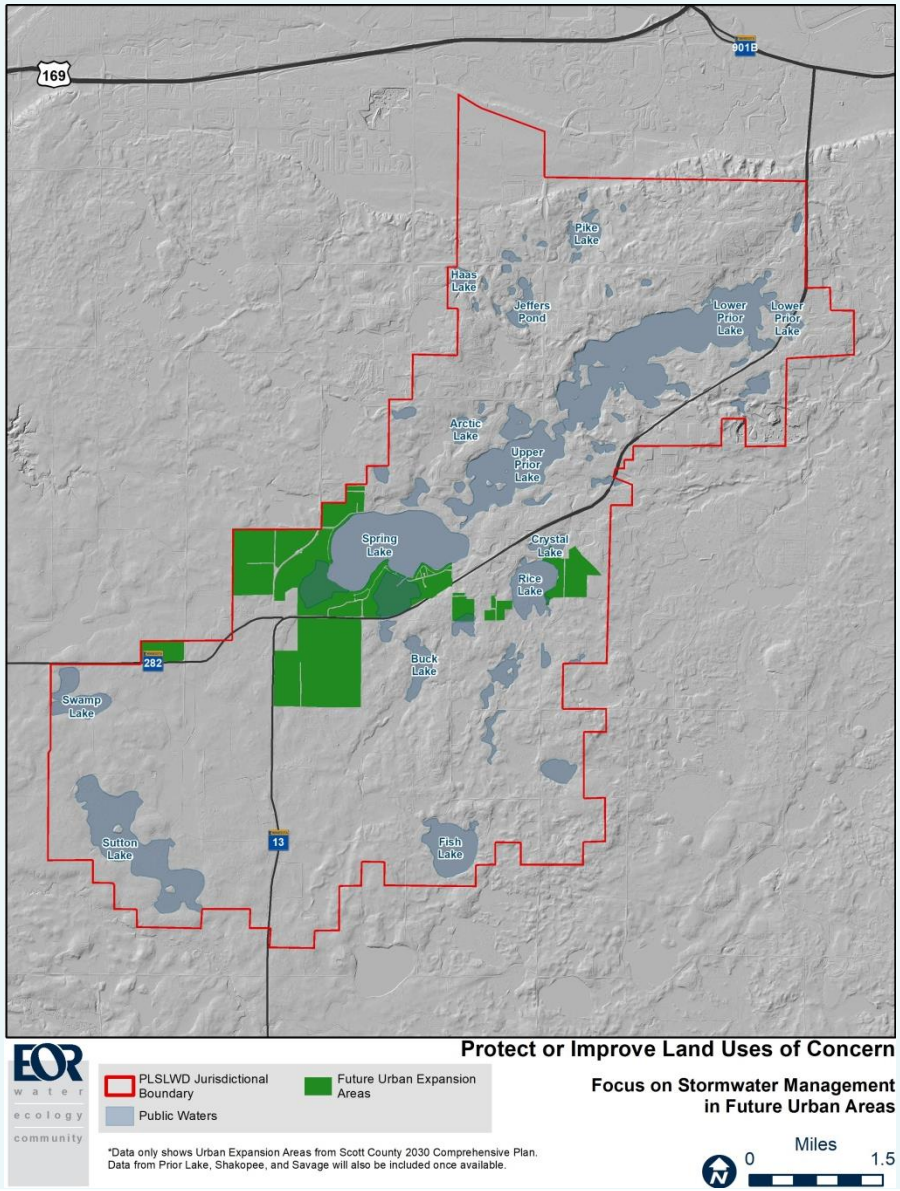


Protect or Improve Land Uses of Concern

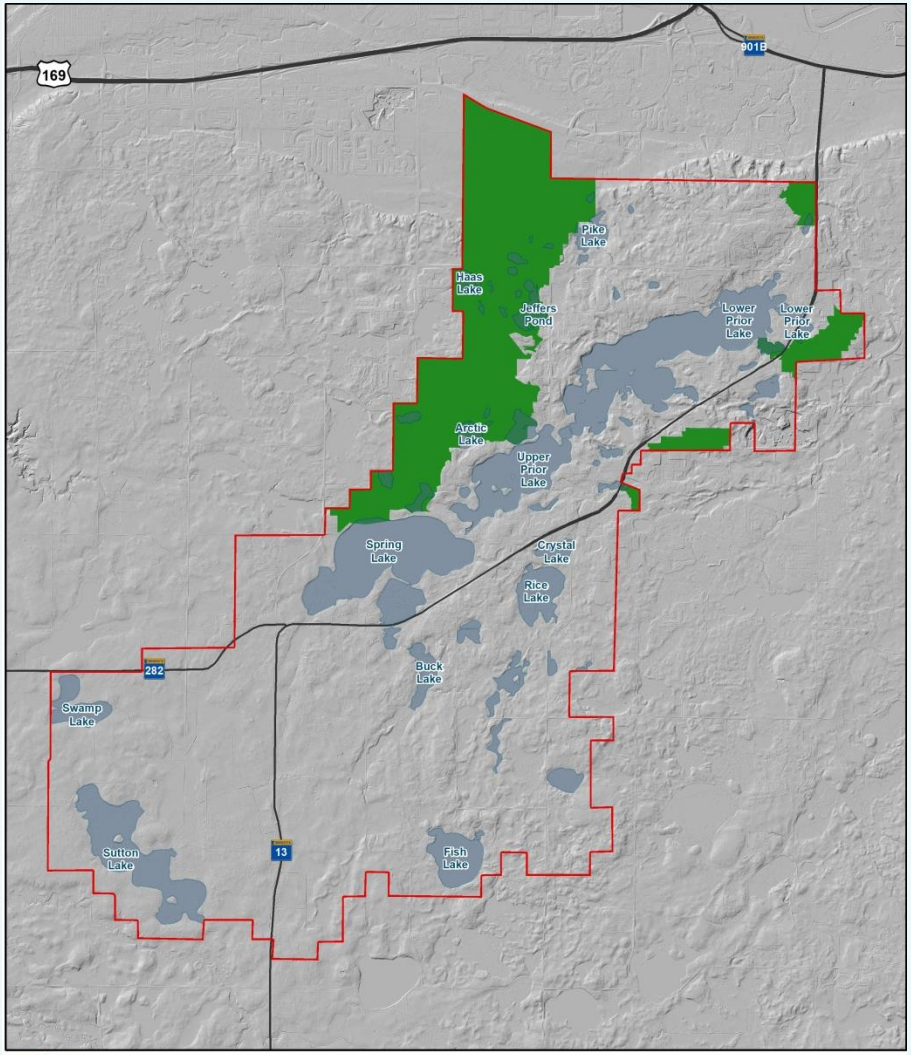




Focus BMPs on Landuses of Concern



Protect Groundwater



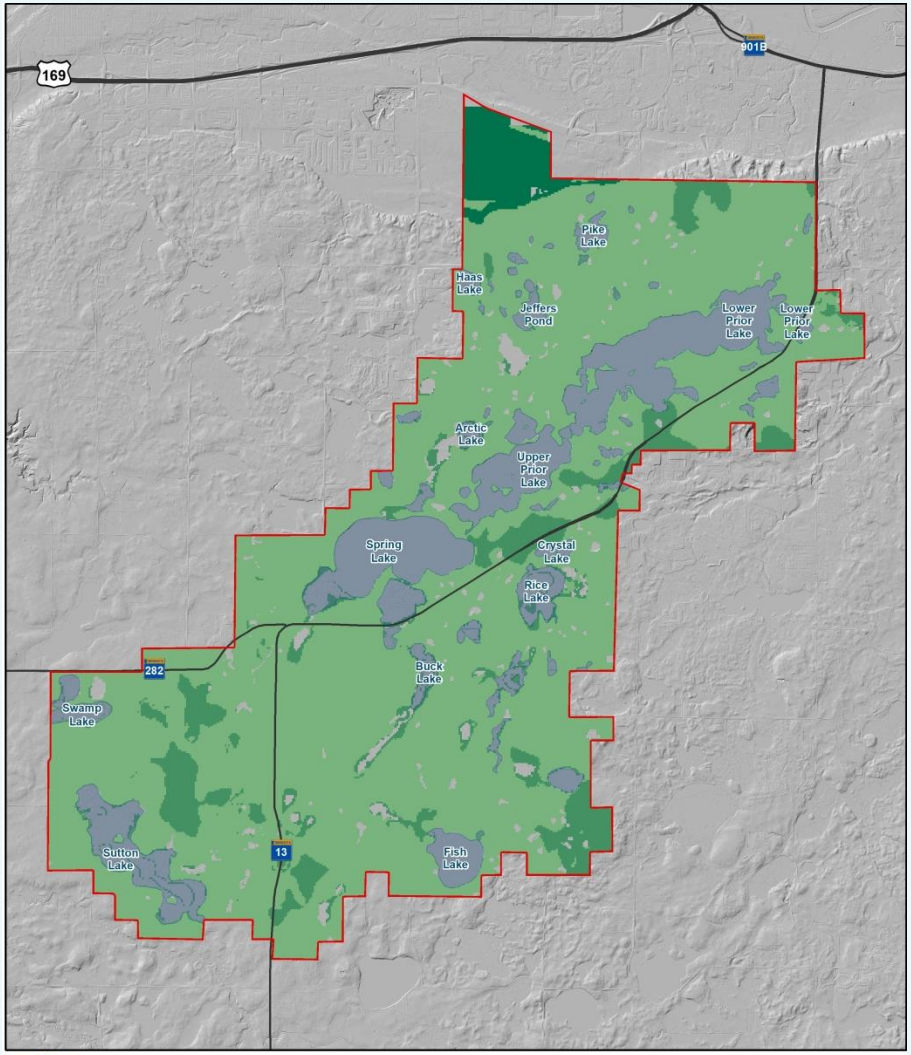
EOR water ecology community

PLSLWD Jurisdictional Boundary
Public Waters
Drinking Water Supply Management Areas

Protect Groundwater

Focus on Drinking Water Supply Management Area (DWSMA) Vulnerability & Drinking Source Water Assessment Areas (SWA)

Miles 0 1.5



EOR water ecology community

PLSLWD Jurisdictional Boundary
Public Waters

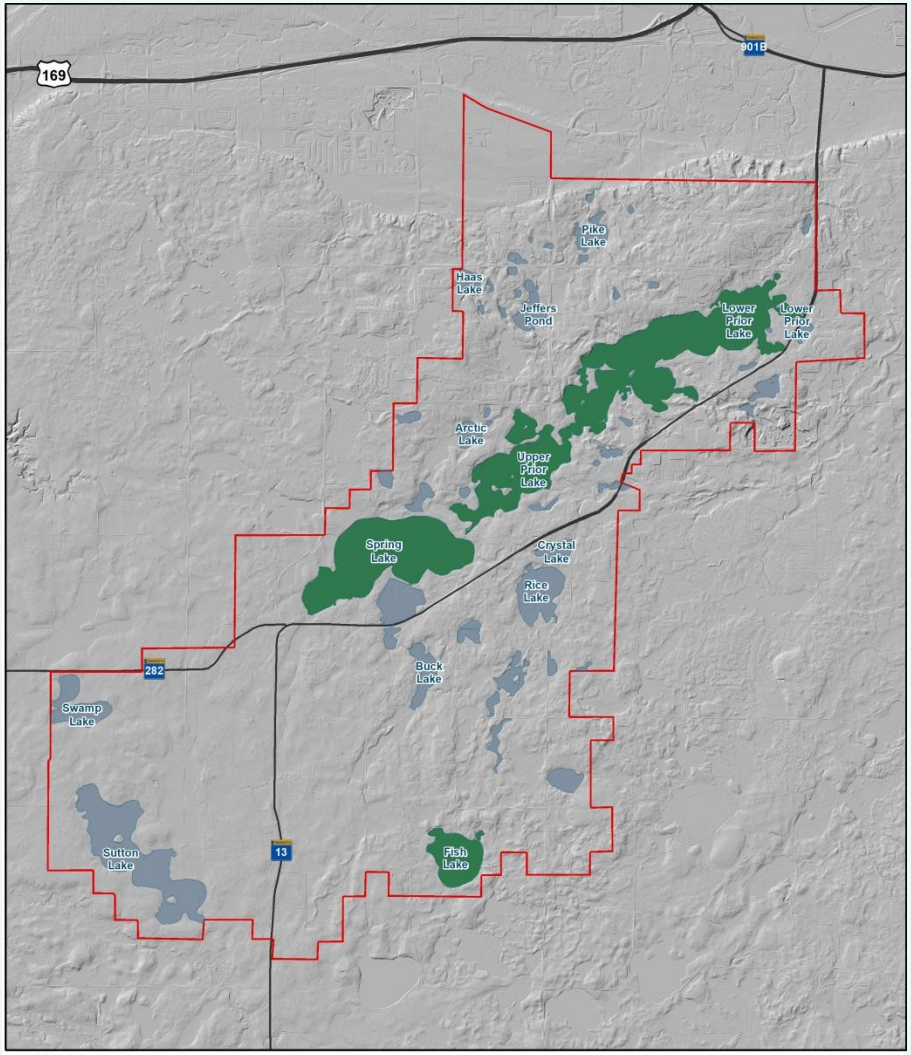
Groundwater Sensitivity
High
Moderate
Low

Protect Groundwater

Focus on Groundwater Contamination Susceptibility

Miles 0 1.5

Protect Groundwater



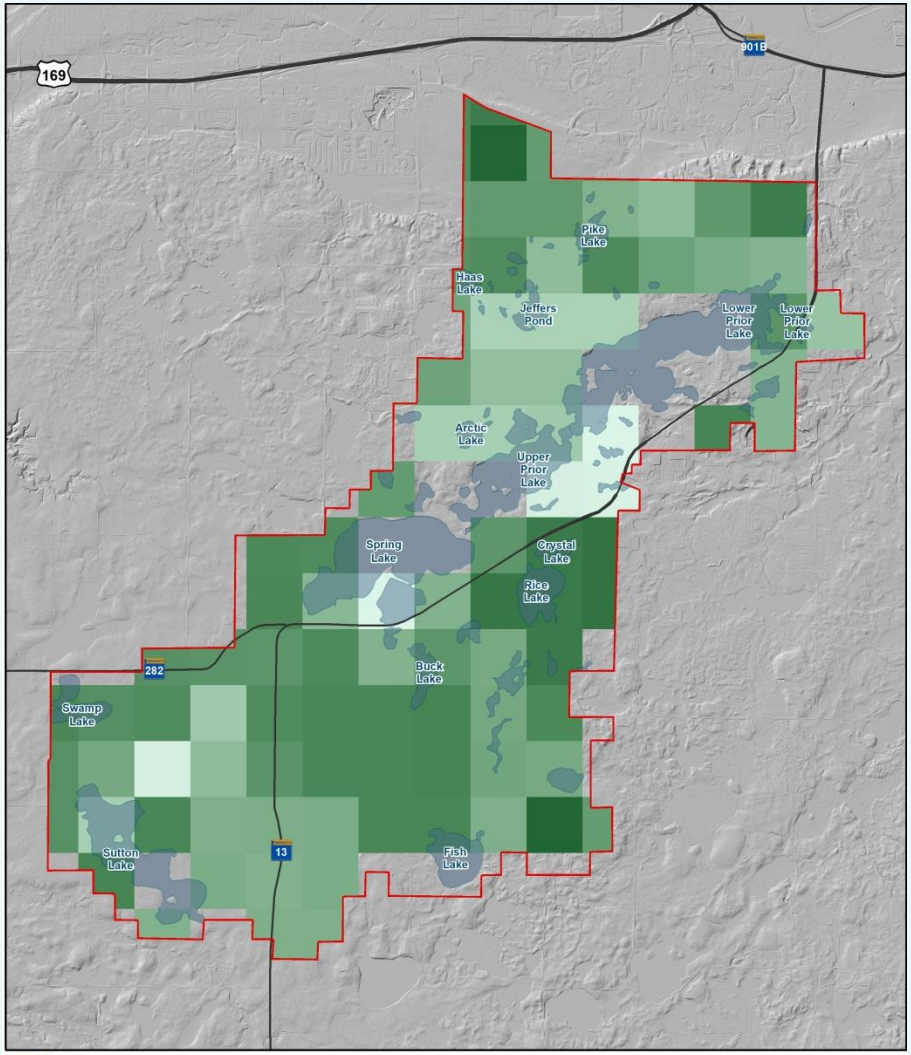
EOR water ecology community

PLSLWD Jurisdictional Boundary
Public Waters
Surface Waters Vulnerable to Groundwater Pumping

Protect Groundwater

Focus on Vulnerable Surface Water - Groundwater Interactions

Miles 0 1.5



EOR water ecology community

PLSLWD Jurisdictional Boundary
Public Waters

Mean Groundwater Recharge (1996-2010)
High : 8.4 in/yr
Low : 2.5 in/yr

Protect Groundwater

Protect Areas with High Groundwater Recharge

Miles 0 1.5