Agenda

1. What we know:
Skogman Lake Study
Water Quality Data
Skogman Shoreline

2. Knowing Your Shore:
Do I have a resource Concern?

3. Shoreline Restorations:
Complex Solution
Basic Solutions

4. Next Steps

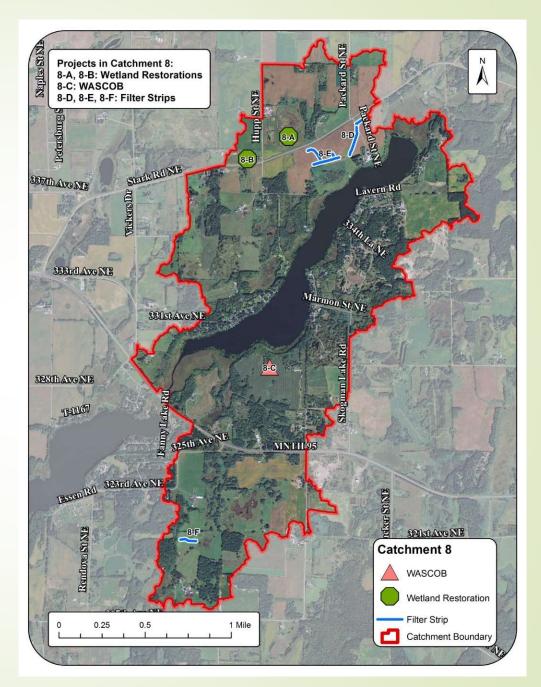




Skogman Lake Study

- 2014 Watershed report
- 2022 Shoreline Survey Update
- 2023 Nearshore and Rural Watershed Update

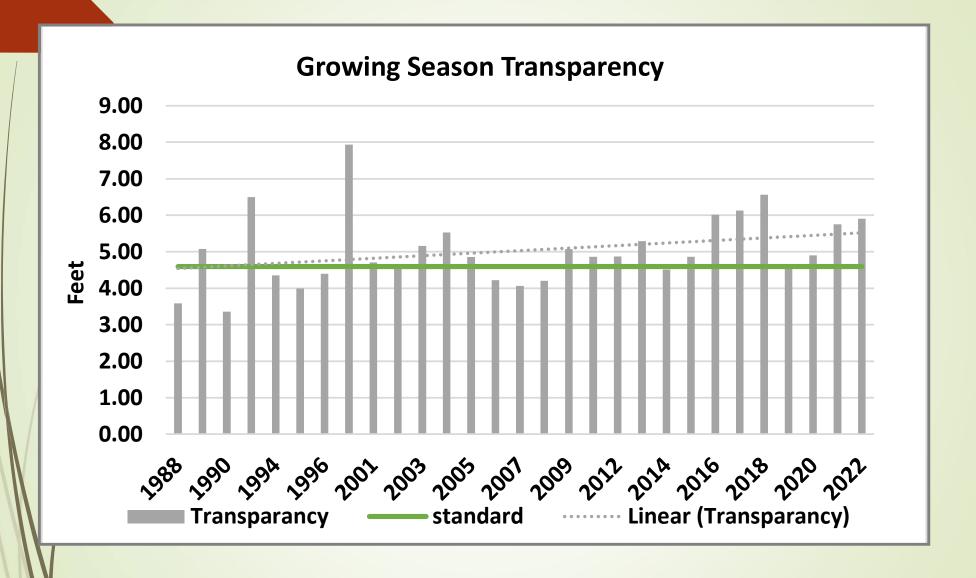
Township	Cambridge
MN Lake ID	3002200
# of Public Boat Access	1
	Eurasian Watermilfoil,
	Curly-leaf Pondweed,
Aquatic Invasive Species	purple loosestrife
Surface Area	228
Littoral Area (<15ft deep)	135
Maximum Depth	36
Lake Depth Classification	Deep
Lake Health Status	Impaired
SWCD Priority Lake	Yes

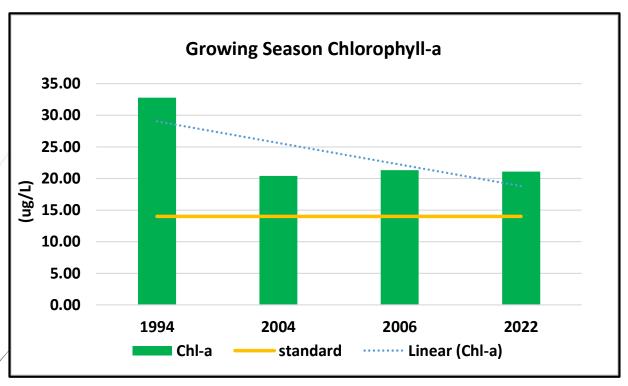


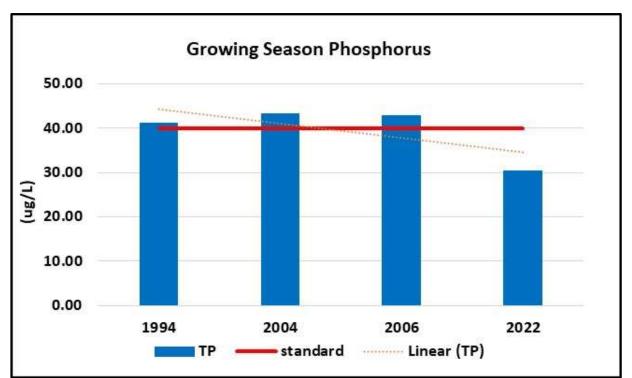
Water Quality Data

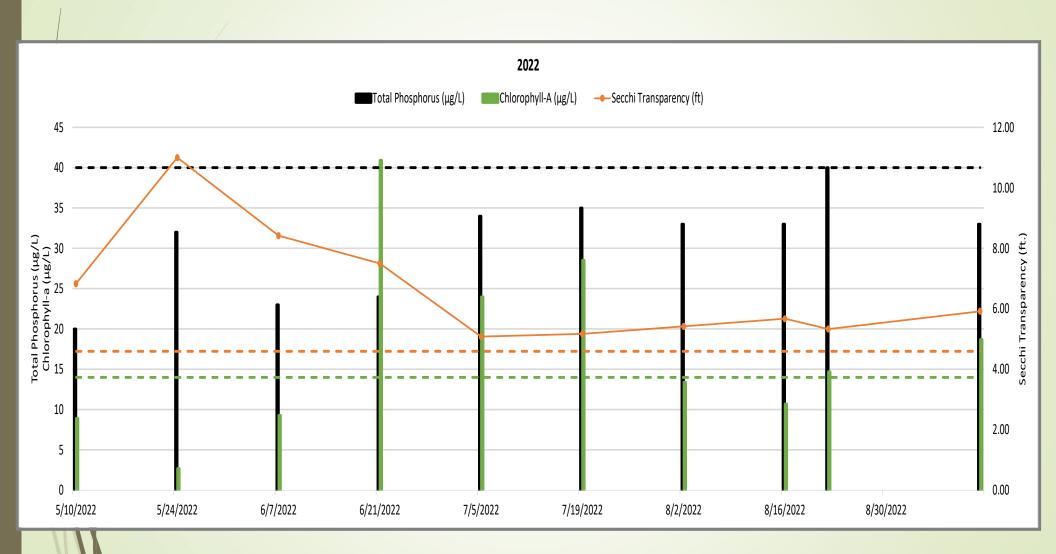
- Transparency data recorded since 1988
- 2022 Lake Monitoring: Phosphorus, Chlorophyll-a and Transparency 2x a Month
- 2022 Stream Monitoring: Phosphorus, sediment and transparency 8 times a growing season.
- 2023 Repeat

BIG THANKS TO LID Volunteers!!









Skogman Lake Shoreline Data

- 6.1 miles of shoreline.
- Plenty of RipRap (rock along shoreline)
- Manicured turf grass.
- Slope.
- Residential development.
- Shoreline erosion
- Runoff concerns
- An estimated 3,467 linear feet were identified as potential restoration locations.



Identifying Resource Concerns:

Impervious surface

- Driveways
- Roofs
- Patios
- Walkways



Stormwater Runoff













Identifying Resource Concerns

Slope to the lake:

- Moderate Slope
- Steep Slope
- Manicured Lawn









Identifying Resource Concerns:

HILL EROSION:

- Gullies
- Bare soil

Identifying Resource Concerns:

Shoreline Erosion:

- Vertical banks
- Bare soil
- Maintained lawn
- Undercutting







Solutions to the Issue

Complex Shoreline Restoration:

- Severe erosion
- Difficult site access
- Large drainage area





Solutions to the Issue

- **■**Complex Shoreline Restoration:
- Certified engineered designs
- Surveying
- Permitting
- Heavy equipment contractor









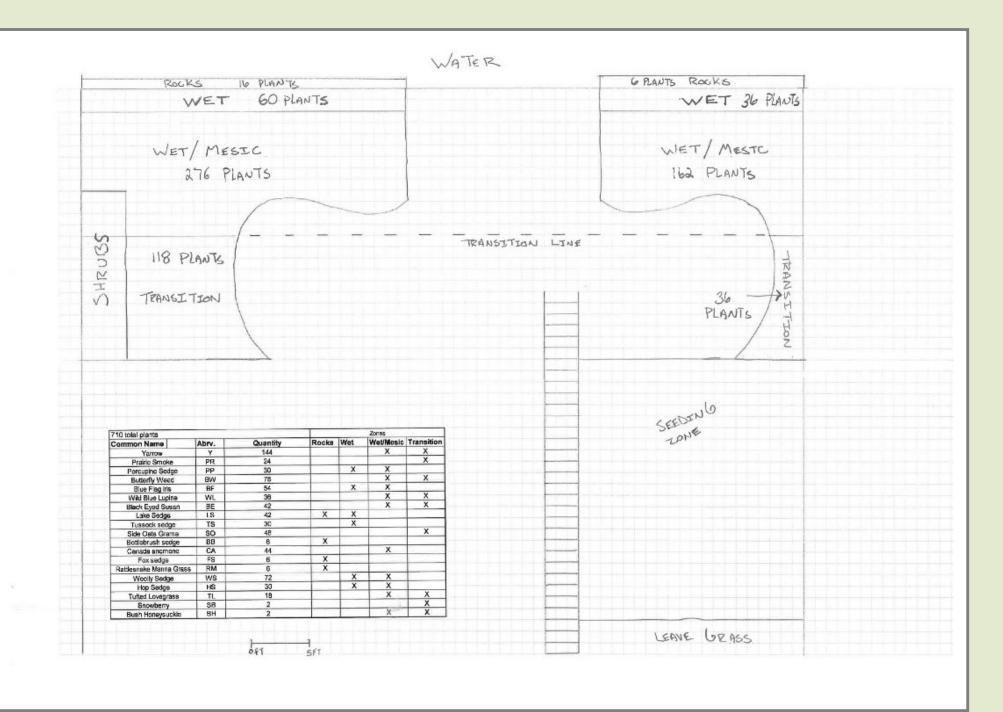
Solutions to the Issue:

Basic Shoreline Restoration:

- Mild to medium erosion
- Easy site access
- Small drainage area









Plant Material List

Landowner: Address: Phone:

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Print Form

< Back

Project Name:	Wilke	Total Plan	is:	348	Est Planting Date: TBD		Subtotal:								
Project Contact:	Todd Kulaf	Total Containers:		58			İ	Bloom Time and Color							
		Plant Type	Soil Type _	Sun Expost	Height	Size (#/traj 🕌	of plants requeste	March	April	May	June	July	August	September	Octob
Aquilegia canadensis	Columbine	Forbs	M, D	F-S	1-3*	plug	18								
Asolepias incamata	Swamp Milkweed	Forbs	V,M	F	3-4*	plug	24								
Asclepias tuberosa	Butterfly Weed	Forbs	M,D	F,P	1.5-2'	plug	18								
Carex pellita	Woolly Sedge	Sedges	W,M	F,P	1.5-2'	plug	66								200
Carex sprengelii	Long Beaked Sedge	Sedges	W-D	P,S	1-2'	plug	66								
Carex vulpinoidea	Brown Fox Sedge	Sedges	W,M	F,P	3,	plug	66								
Eupatorium maculatum	Joe Pye Weed	Forbs	W, M	F	4-62	plug	18								-
Eupatorium perfoliatum	Boneset	Forbs	V,M	F,P	3-4*	plug	18						10. 3		1
lris veriscolor	Blue Flag Iris	Forbs	W,M	F.P	2-3'	plug	18								
Polemonium reptans	Jacob's Ladder	Forbs	W-D	F,P,S	t	plug	18								
Zizia aurea	Golden Alexanders	Forbs	W-D	F,P	3'	plug	18	:					9.	2	102













Blue Flag Iris

Golden Alexanders Long Beaked Sedge swamp Milkweed

jacob's Ladder













Joe Pye Weed

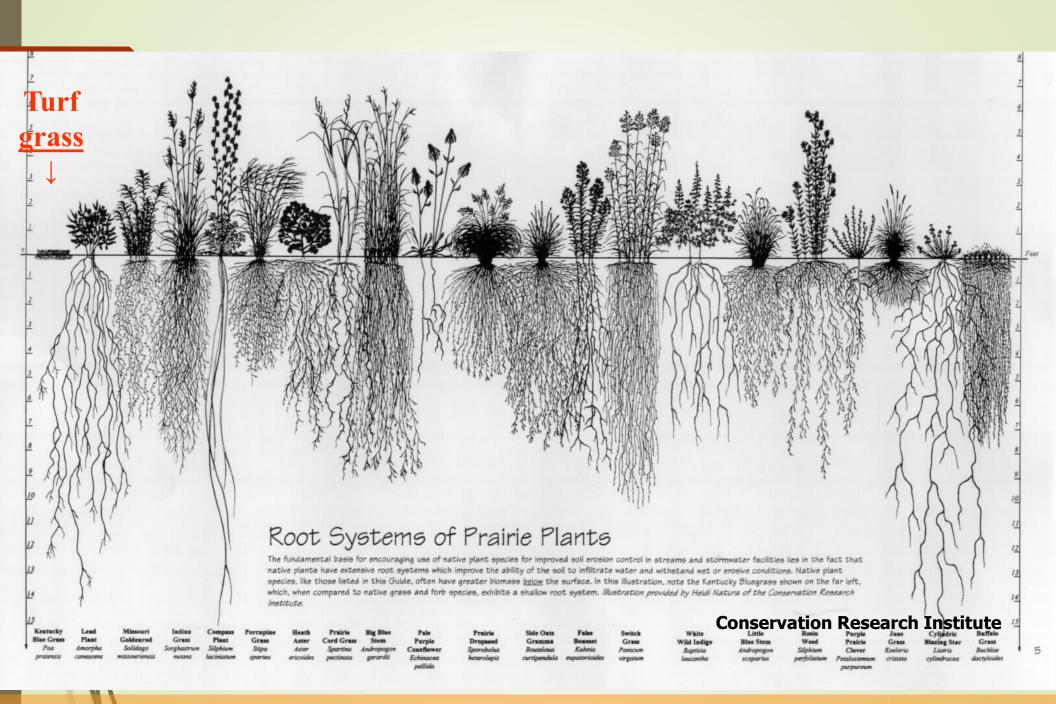
Butterfly Weed

Jacobs Ladder

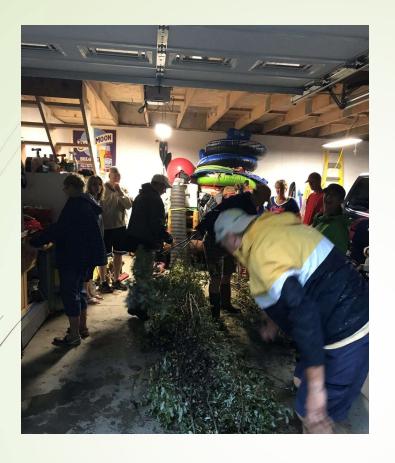
Fox sedge

Woolly Sedge

Columbine

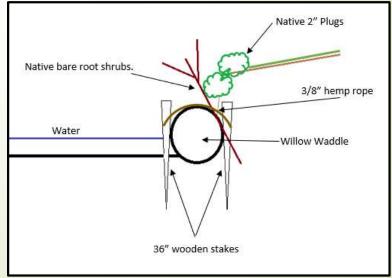


Deep-rooted Native Plants





Willow Bundles

















Shoreline Restoration



Shoreline Restoration



Shoreline Restoration



Rain Garden

Next Steps!

- Call the SWCD!
- Identify potential issues
- Brain storm ideas
- Research plants
- Talk with neighbors
- Draw plan
- Get to work!

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Email: tkulaf@isantiswcd.org

