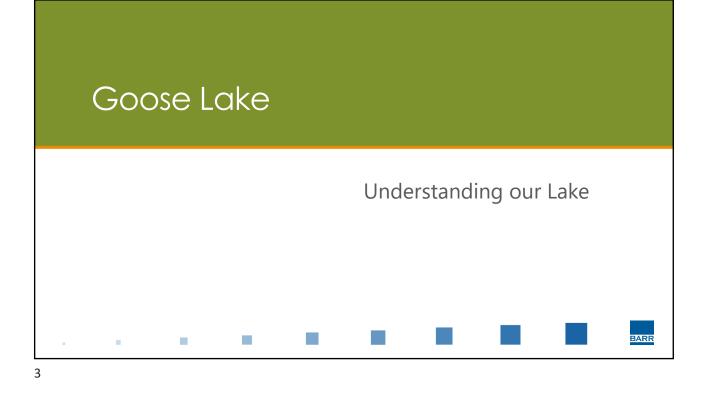
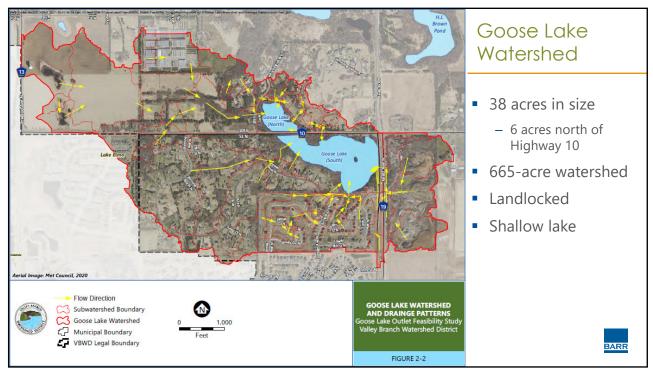


Presentation Objectives

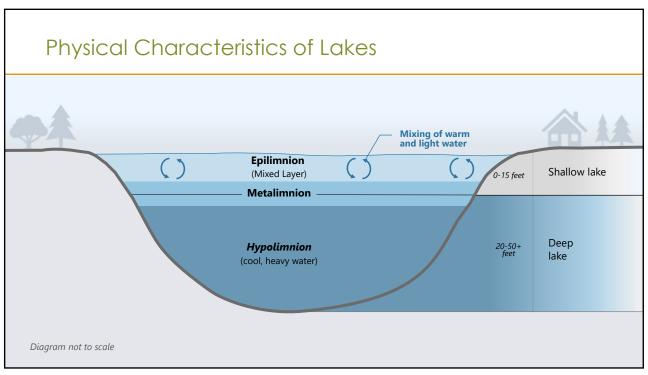
- Background on Goose Lake
 - Physical features
 - Water quality
- How lakes work: a primer on lake ecology (limnology)
 - Setting the stage for potential outcomes
 - Shallow versus deep lakes
- Setting Targets for Lake Enhancement
 - Setting reasonable expectations for your lake
 - What do you want from Goose Lake? What concerns about the lake do you have?
- Lake Management (Stakeholder Meeting #2)
 - Enhancing lakes for practical outcomes
 - Maximizing beneficial uses

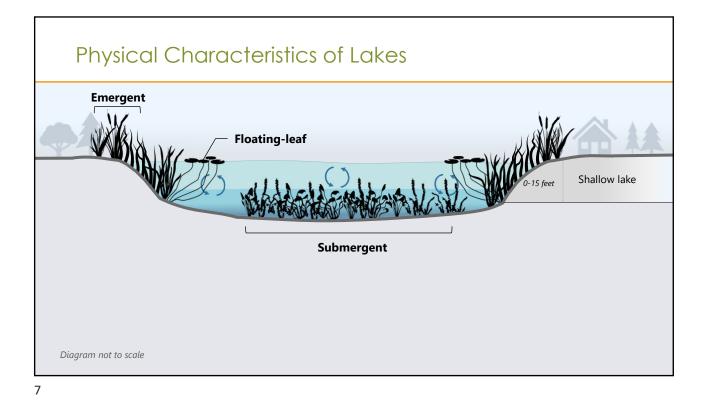
BARF

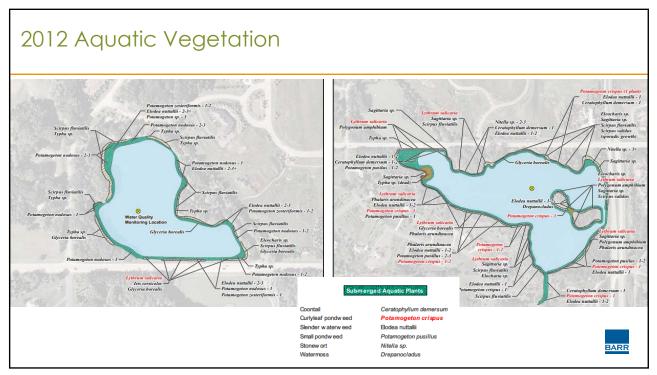




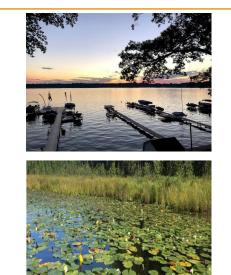








Deep versus Shallow Lakes



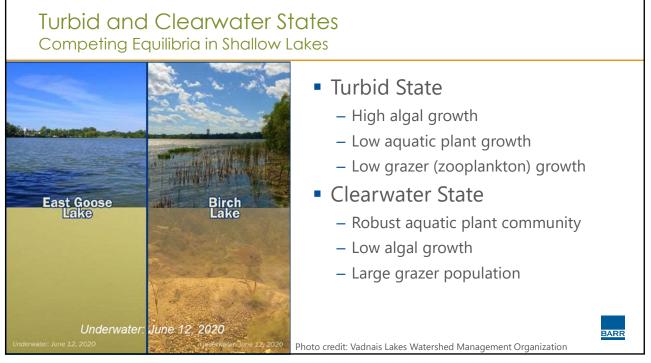
Deep Lakes

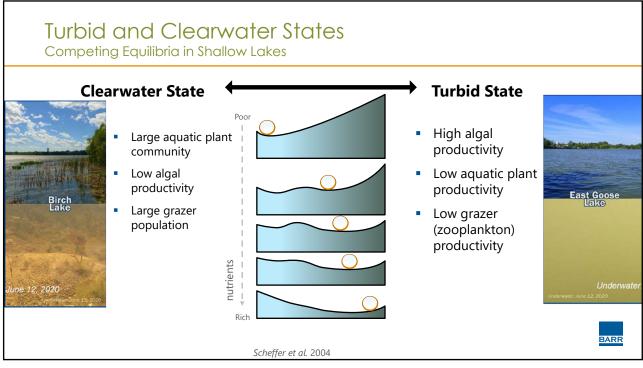
- Large open water area supporting recreational uses
- Aquatic vegetation limited to shallow (littoral) areas
- Often direct response to management actions

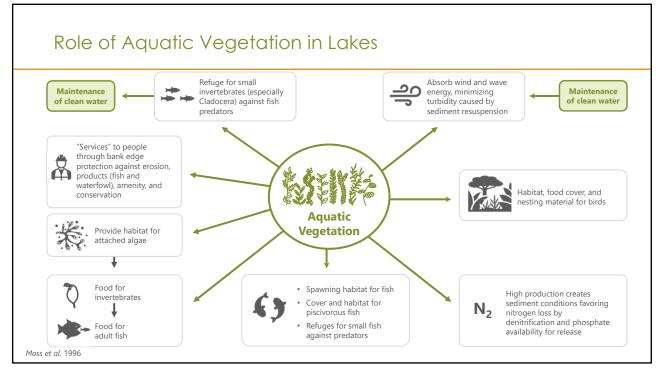
Shallow Lakes

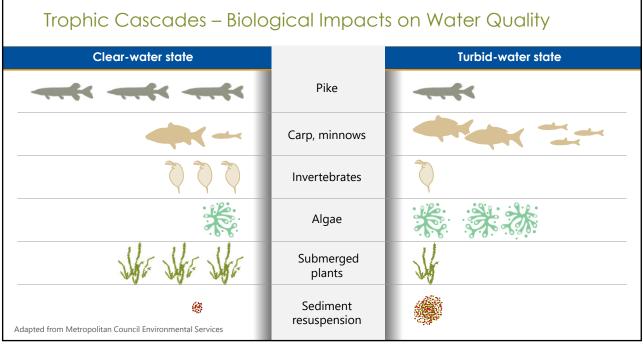
- Limited open water area supporting recreational uses
- Often aquatic plants throughout the lake
 - Often at or near the surface
- Often indirect response to management actions

BARR

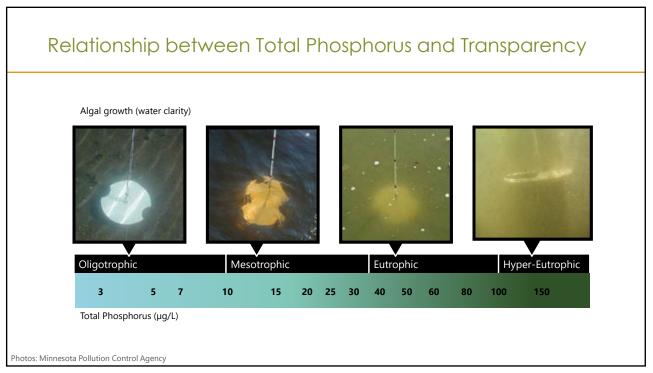






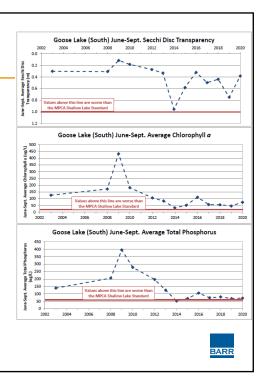


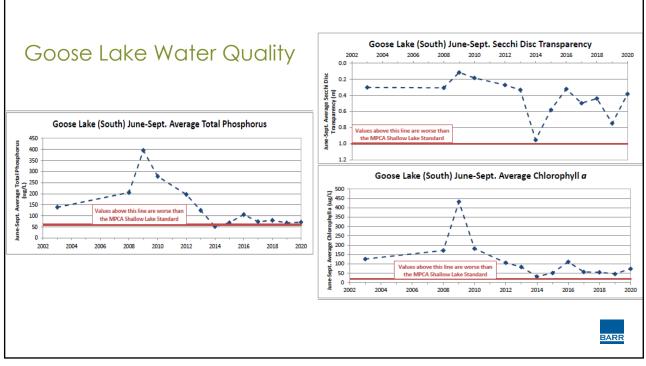


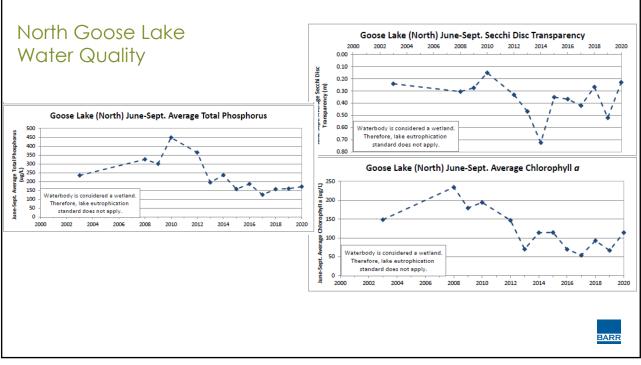


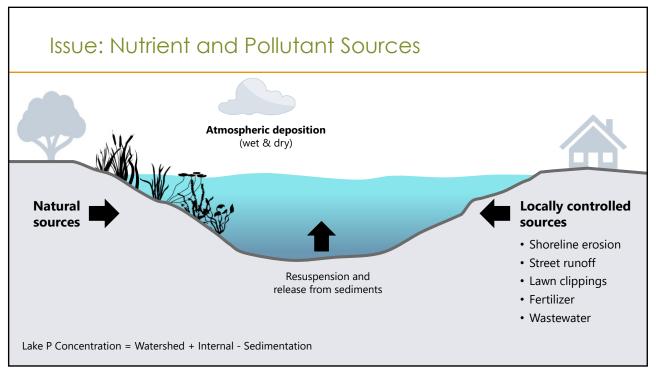
Water Quality Targets	
Parameter	North Central Hardwood Forest
Total Phosphorus (µg/L)	Deep: 40 Shallow: 60
Chlorophyll-a (µg/L)	Deep: 14 Shallow: 20
Secchi Depth (meters)	Deep: 1.4 Shallow: 1

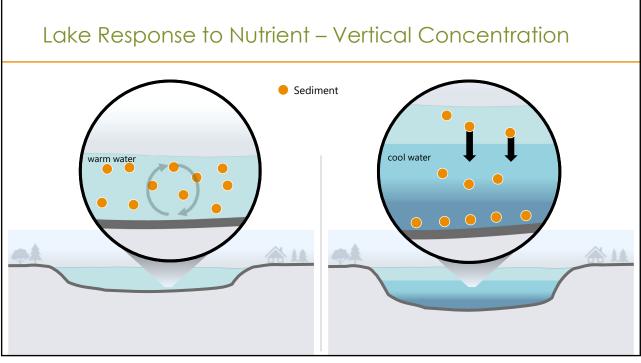
-A shallow lake is defined as having a maximum depth less than 15 feet or with 80% or more of the lake area shallow enough to support emergent and submerged rooted aquatic plants.



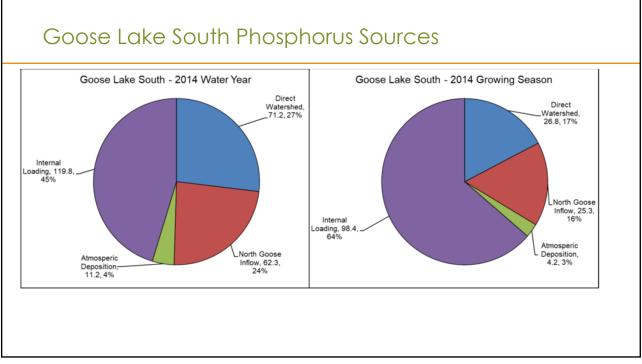


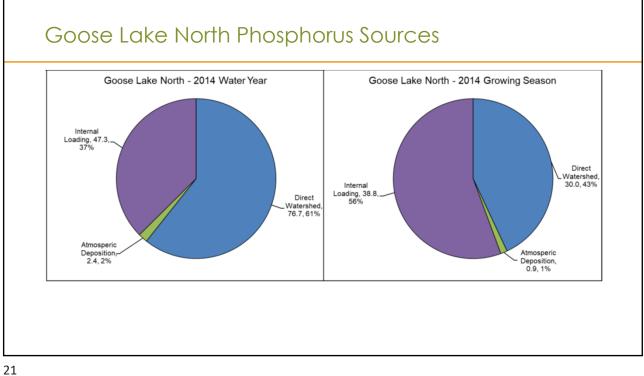






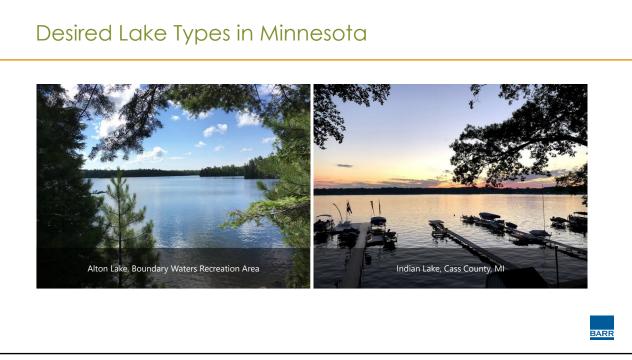


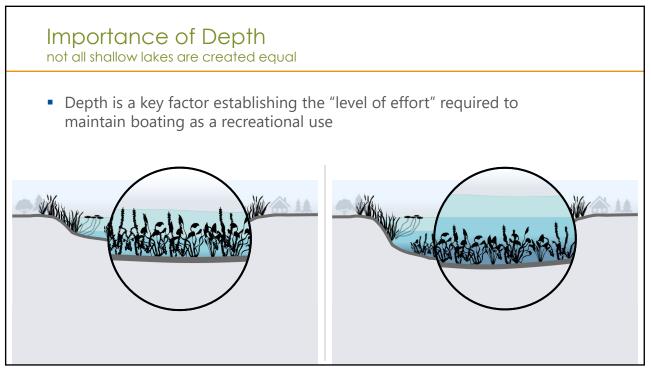


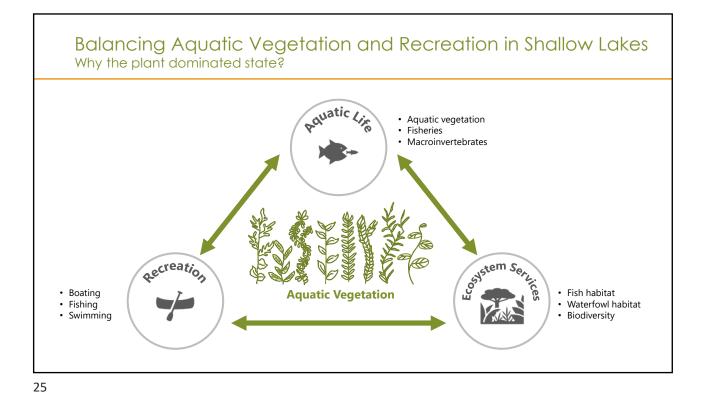




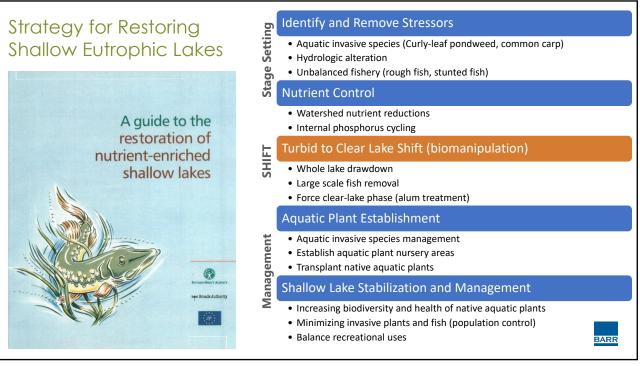


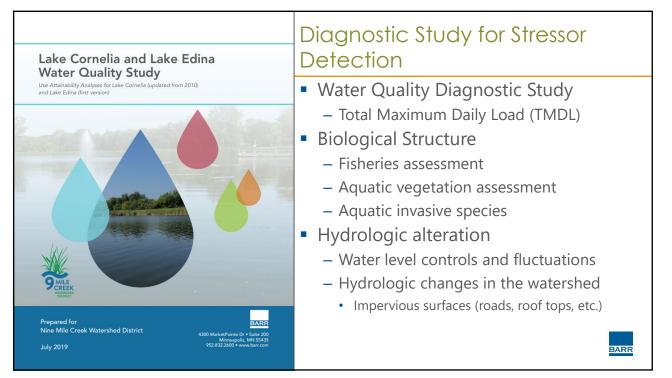




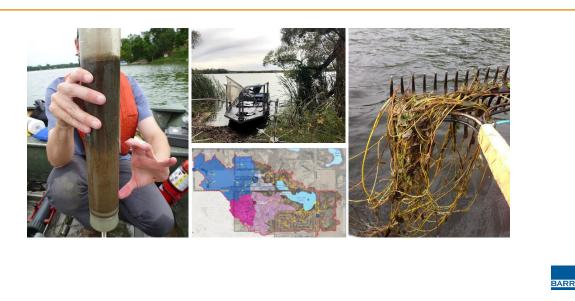








Diagnostic Study



29

<section-header><section-header><section-header><text><text><section-header><list-item><list-item><section-header>



