

# Miner Lake Association Fall 2019 Meeting

*August 31, 2019*

# Agenda

- ◆ Approve Minutes from Spring Meeting
- ◆ Treasurer Report
- ◆ Water Quality and Plant Report for 2018/19
- ◆ Monitoring and Plant Treatment for 2020
- ◆ Membership Topics and Q/A
- ◆ Election of Officers

# Treasurer Report

|                        |                  |                    |
|------------------------|------------------|--------------------|
| <b>Balance 5/25/19</b> |                  | <b>\$12,316.92</b> |
| <b>Deposits</b>        |                  | <b>\$750.00</b>    |
| <b>Expense Detail</b>  | <b>Postcards</b> | <b>(\$124.50)</b>  |
|                        | <b>Snacks</b>    | <b>(\$20.37)</b>   |
| <b>Expense Total</b>   |                  | <b>(\$144.87)</b>  |
| <b>Balance 8/31/19</b> |                  | <b>\$12,922.05</b> |

# Treasurer Report - Accounts

|                        |  |                    |
|------------------------|--|--------------------|
| <b>Sewer</b>           |  | <b>\$10.00</b>     |
| <b>East End</b>        |  | <b>\$1764.77</b>   |
| <b>General</b>         |  | <b>\$11,147.28</b> |
| <b>Balance 8/31/19</b> |  | <b>\$12,922.05</b> |

# Water Quality Report

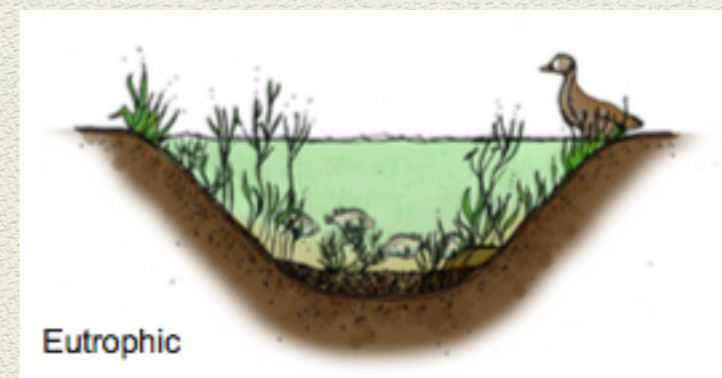
- ◆ Performed by ProgressiveAE
- ◆ Covers calendar year 2018 into 2019
- ◆ Will publish this presentation and the actual report to the Miner Lake website

# Lake Classification

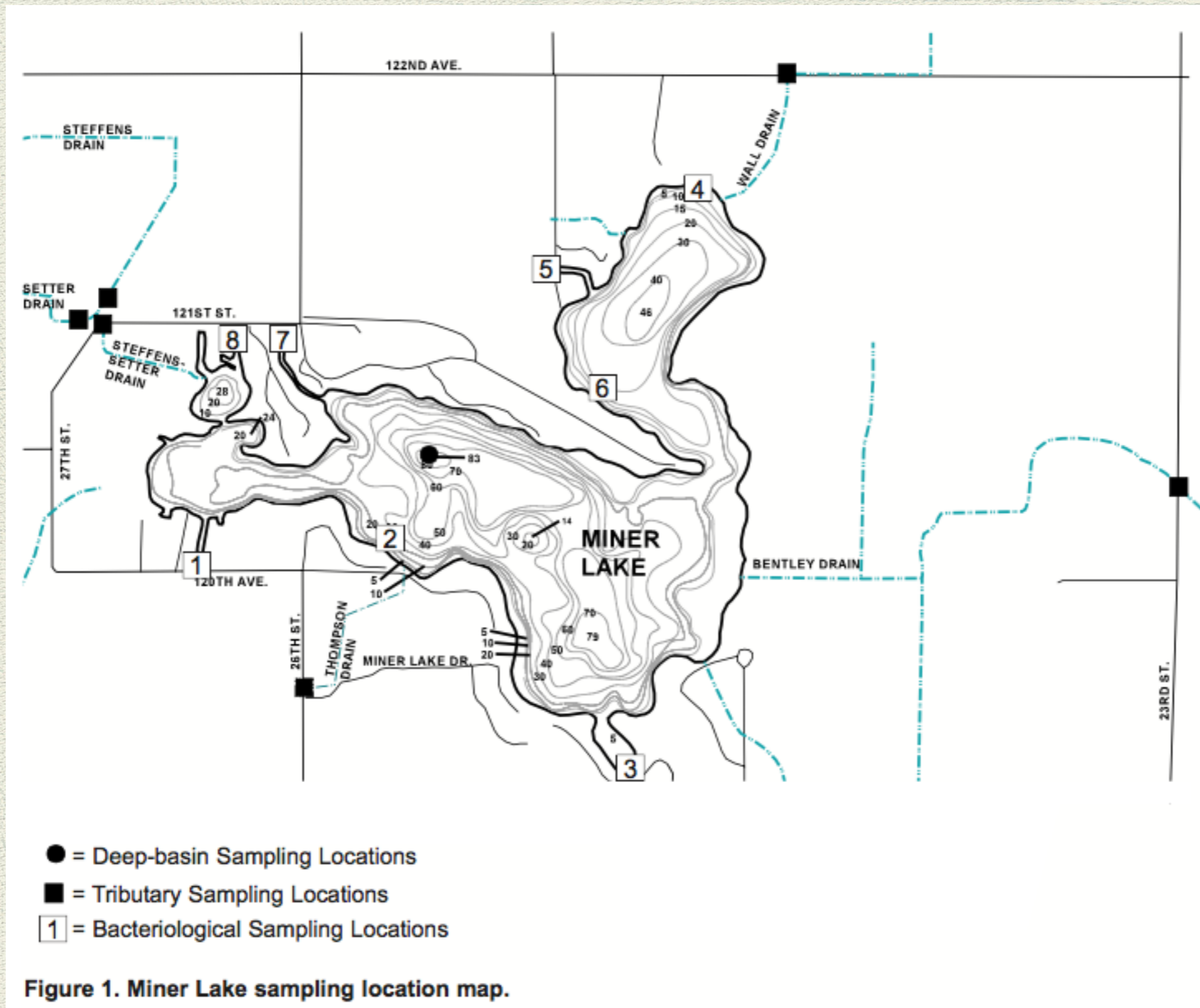
**Oligotrophic** lakes are generally deep and clear with little aquatic plant growth. These lakes maintain sufficient dissolved oxygen in the cool, deep bottom waters during late summer to support cold-water fish such as trout and whitefish.

**Eutrophic** lakes have poor clarity and support abundant aquatic plant growth. In deep eutrophic lakes, the cool bottom waters usually contain little or no dissolved oxygen. Therefore, these lakes can only support warm-water fish such as bass and pike.

Lakes that fall between the two extremes of oligotrophic and eutrophic are called **mesotrophic** lakes.

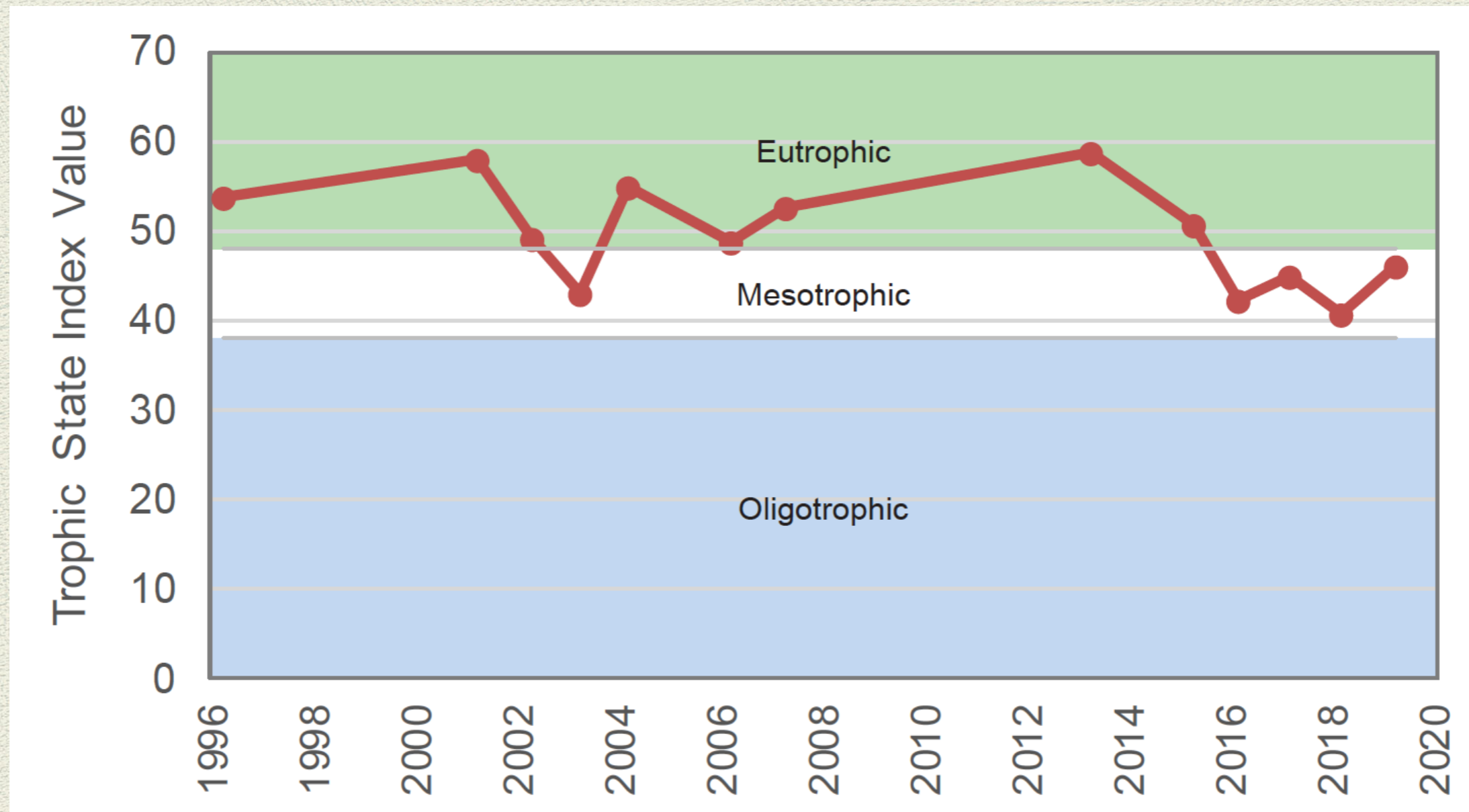


# Sample Locations



# Miner Lake - TSI Values

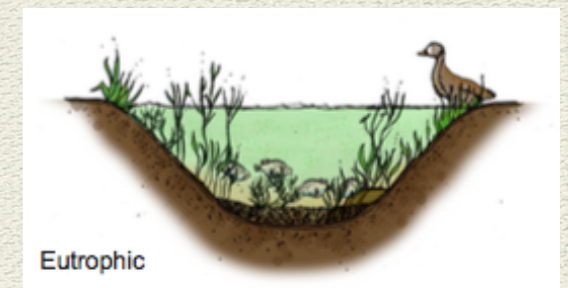
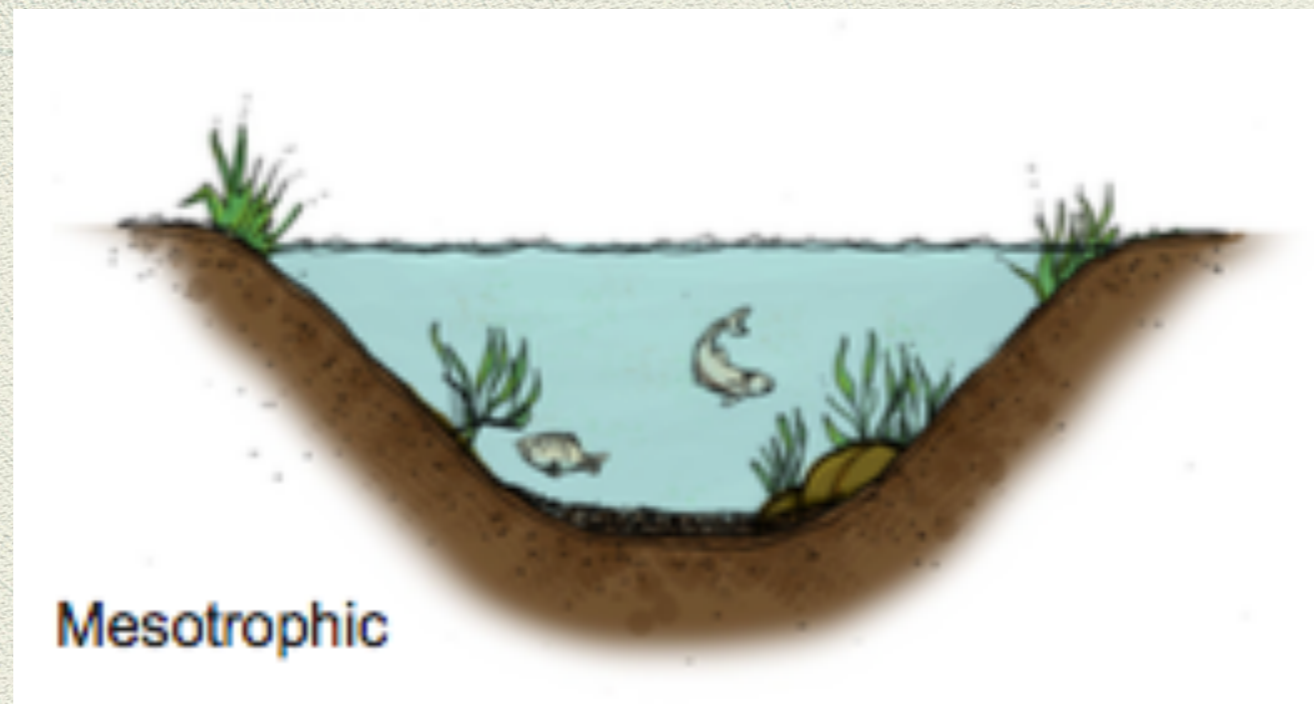
The average TSI values for Miner Lake based on **spring phosphorus** and **summer chlorophyll-a and Secchi transparency** data collected between 1996 and 2019 are:



# Miner Lake - 2019

Based on the data collected, Miner Lake is **moderately eutrophic** in that it periodically has **elevated total phosphorus levels** and **reduced Secchi transparency**.

**Algae growth** in the open waters of the lake is **generally moderate**.



# Water Quality Monitoring 2020

- ◆ Contract with ProgressiveAE continues
- ◆ Volunteer collection by Tom Slocum and Jack Pogodzinski for Cooperative Lakes Monitoring Program (CLMP)
  - 200+ Michigan lakes
  - Training for volunteers to monitor lakes
  - Testing supplies
  - Published results

<http://www.micorps.net/lakeoverview.html>

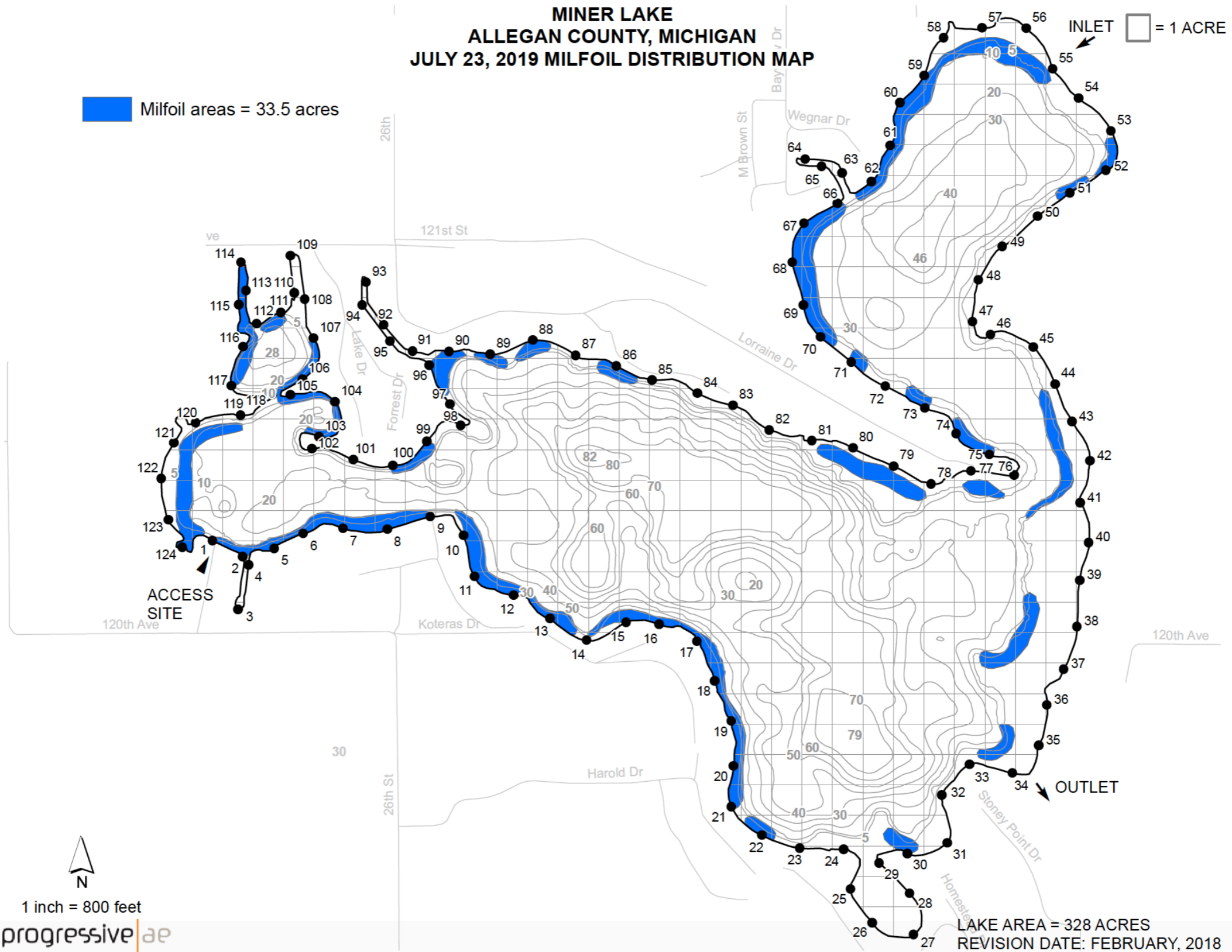
# Water Quality Monitoring 2020

- ◆ CLMP Year 1 (2020) includes:
  - Secchi Disk Transparency (9+ times / summer)
  - Spring Phosphorus
  - Summer Phosphorus
- ◆ CLMP Year 2 (2021) inc Year 1 plus optional:
  - Chlorophyll
  - Dissolved Oxygen and Temperature
  - Exotic Plant Watch
  - Aquatic Plant Mapping
  - Shoreline Habitat Assessment

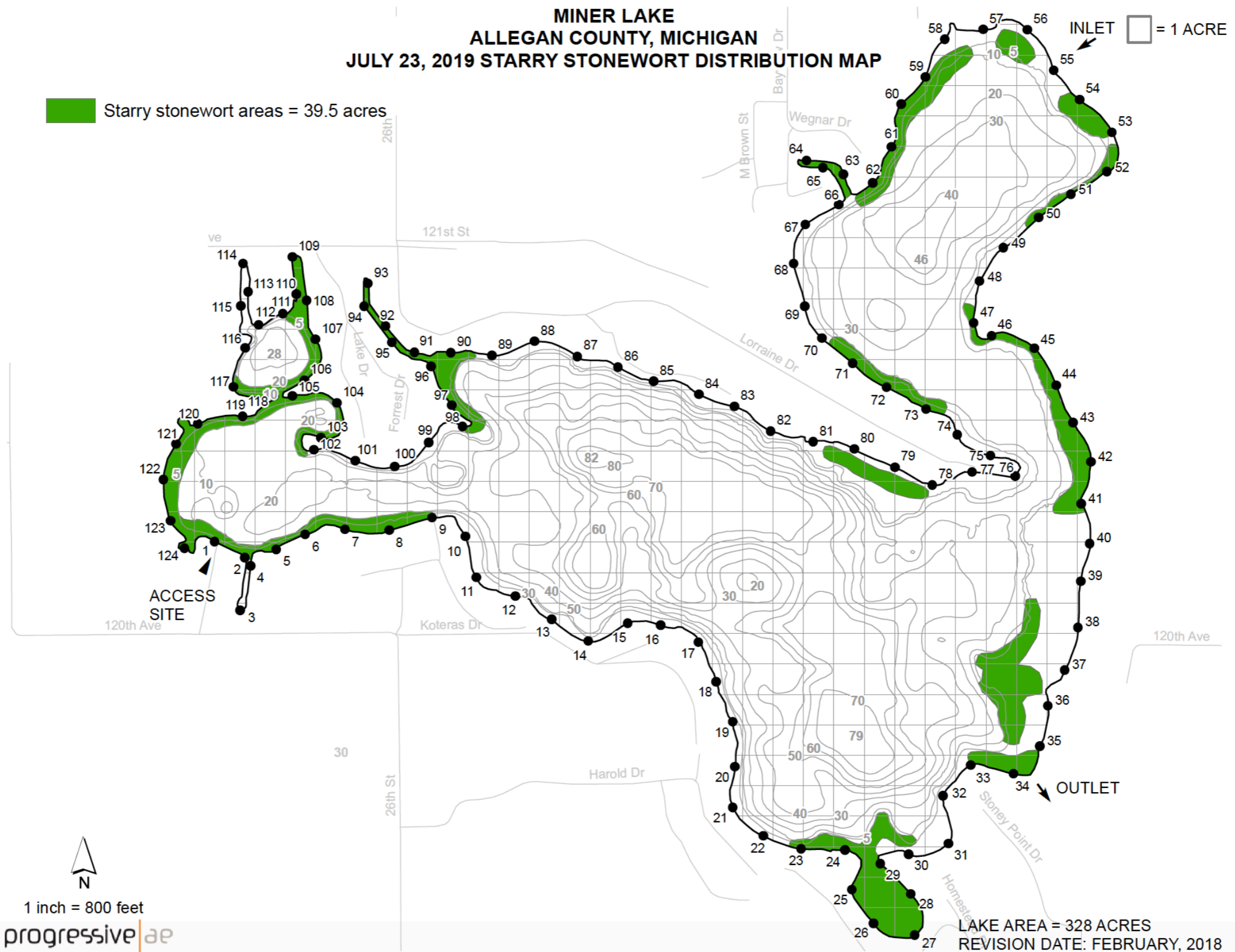
# Milfoil - 2019

## MINER LAKE ALLEGAN COUNTY, MICHIGAN JULY 23, 2019 MILFOIL DISTRIBUTION MAP

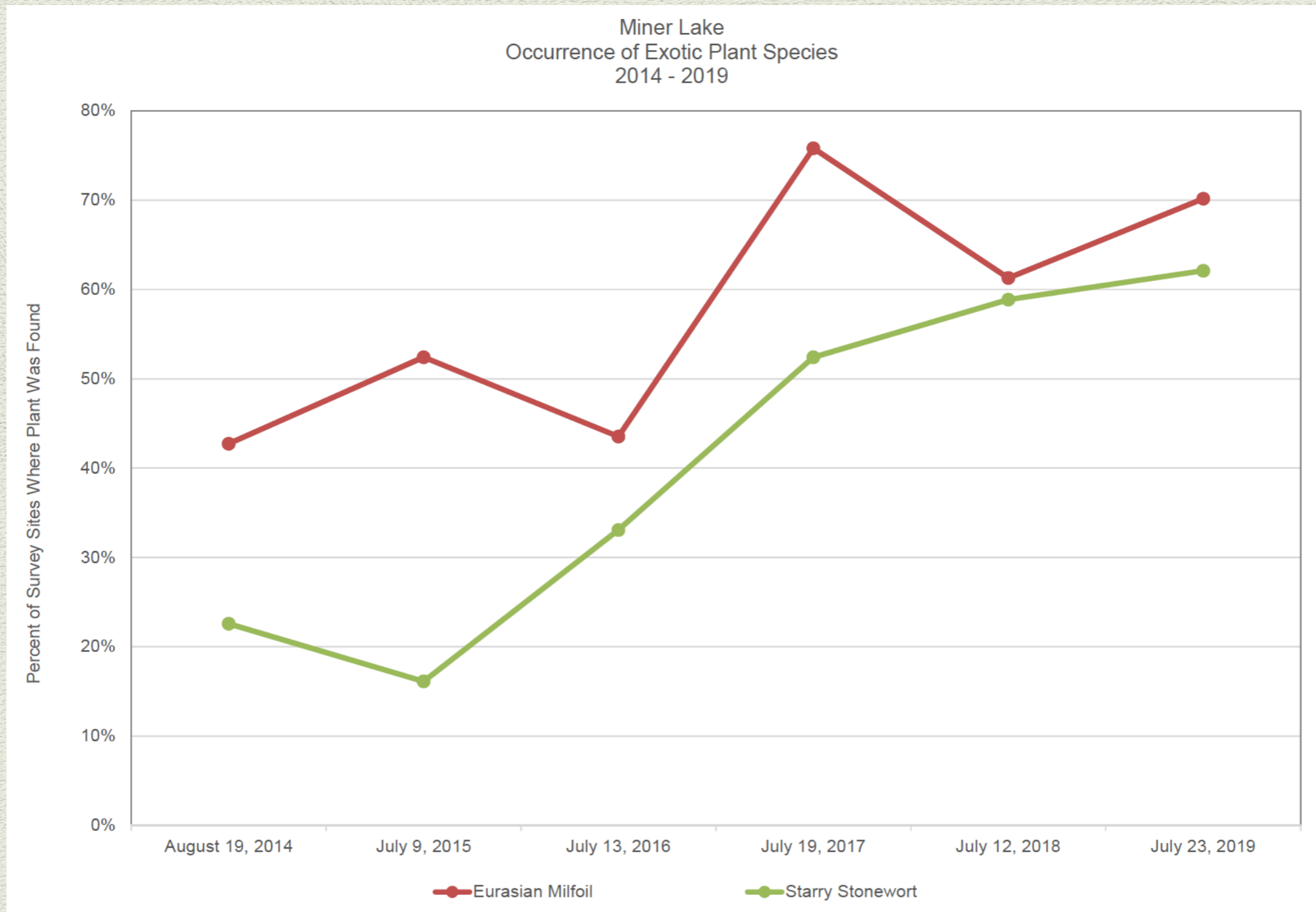
Milfoil areas = 33.5 acres



# Starry Stonewort - 2019



# Invasive Plant Monitoring 2014-19



# Invasive Plant Control - 2020

- ◆ Miner Lake Improvement Board Approved:
- ◆ Application for permit to treat invasive in 2020
- ◆ Progressive A/E mapping for treatment in 2020
- ◆ Quote from PLM for treatment plan
- ◆ Information meeting Spring 2020 (likely Memorial Day weekend) to present treatment plan and anticipated timing

# Member Topics and Q/A

- ◆ Boating Practices and Safety
- ◆ Water Level
- ◆ Gas Project
- ◆ Seawalls and Shore Improvement
- ◆ Sewer
- ◆ Others?

# Boating Practices and Safety

- ◆ Resident concern about perceived increase in un-safe boating practices
- ◆ Communication to residents - reminder about proper safety
- ◆ Conversation with Allegan Co. Marine Patrol

# Election of Officers

- ◆ Positions requiring a vote
  - ◆ Vice President - Currently Tom Slocum
  - ◆ Asst. Secretary/Treasurer - Joyce Merrill
- ◆ 2-year term expires Fall 2021
- ◆ Call for nominations
- ◆ Vote

Thank You for Attending

Happy Labor Day!