



On-Site Lake Evaluation Record

Lake Name: Cedar Lake

County: Van Buren

State: MI

Evaluated by: Nate Karsten

Date: 5/11/16

Evaluations Performed

Aquatic Vegetation Evaluation

- Aquatic vegetation survey
- Aquatic vegetation brief check

Vegetation evaluation methods

- Visual evaluation
- Sample collection with rake
- Sonar profiling
- GPS-mapped sample locations

Water quality sampling

- On-site (Temperature, DO, Secchi disk)
- Water samples collected for _____ analysis

GPS data collection

- Depth survey
- Shoreline mapping
- Reference point location

Other _____

Overall Condition of Lake

- excellent (no problems or developing problems noted)
- very good (no immediate action required)
- fair (management required soon)
- poor (management needed as soon as possible)
- very poor (management action past due—IMMEDIATE response required)

Problems Noted

Excessive growth of exotic plants (mark locations on map)

- Eurasian watermilfoil
- curlyleaf pondweed
- other _____
- Excessive growth of native plants (note plant species and mark locations on map)
- Excessive filamentous algae growth (mark location on map)
- Poor water clarity
- Blue-green algal blooms

RECOMMENDATIONS

- X Herbicide application (mark locations on map)
Need for herbicide treatments is: urgent, x serious, moderate, slight

- X Algaecide application (mark locations on map)
Need for algae treatments is: urgent, serious, moderate, x slight

- Harvesting (mark locations on map)
Need for harvesting is: urgent, serious, moderate, slight

- Shoreline stabilization (mark locations on map)
Need for shoreline stabilization is: urgent, serious, moderate, slight



- Erosion control (mark locations on map)
Need for erosion control is: urgent, serious, moderate, slight

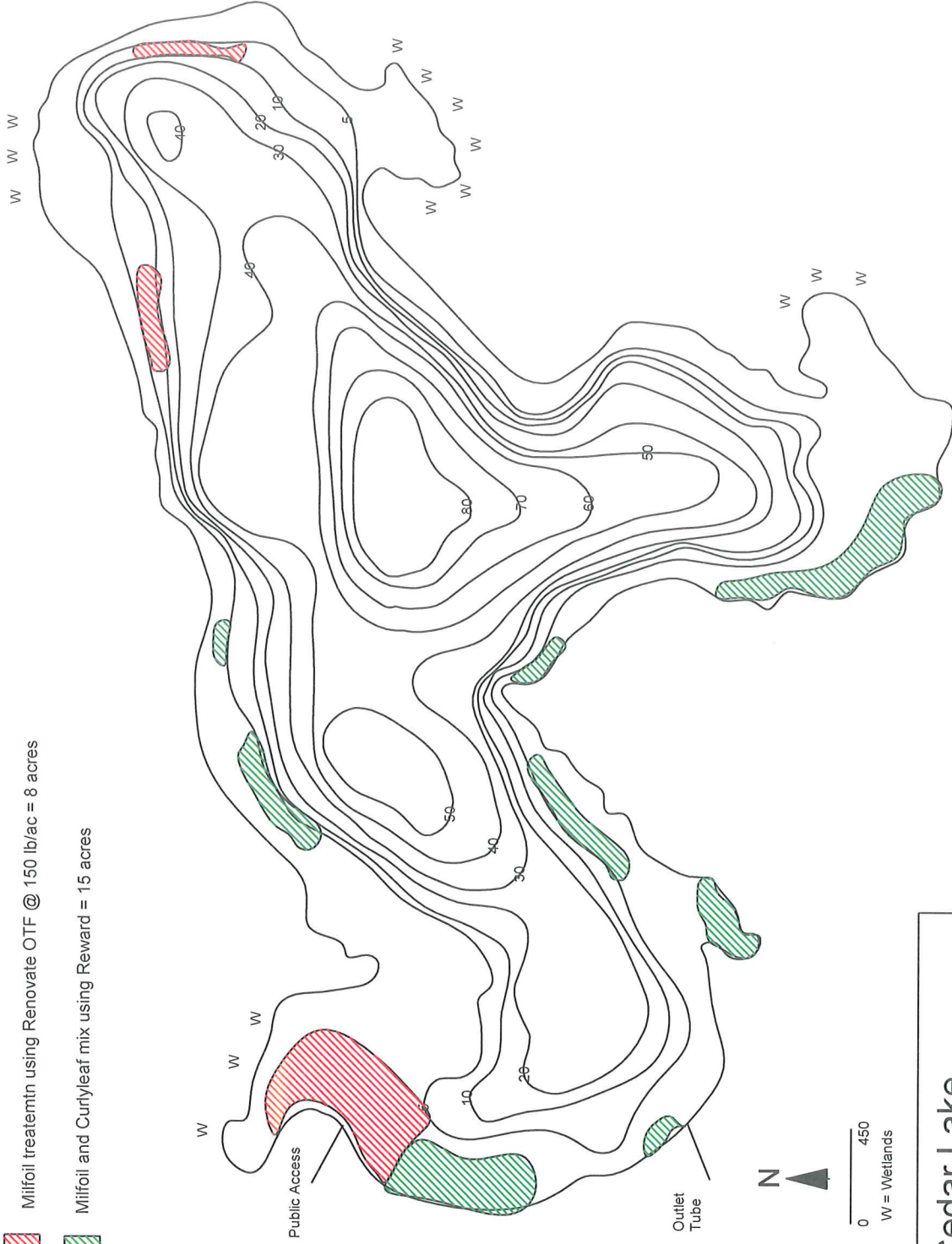
- Other _____

NOTES

The overall condition of Cedar Lake is fair. A mix of exotic species (Curlyleaf and Eurasian watermilfoil) were found in specific areas of the lake. The heaviest growth was found in the area around the public access. For the dense areas, we recommend using Renovate OTF since it has the ability to control the root system. For the smaller, sparse areas of near shore mixed growth, we are recommending Reward since it can control both species.

For the remainder of the year we will continue to evaluate milfoil on the lake ~every three weeks. If any new growth or regrowth is found it will be addressed as needed. Given the distribution of milfoil on the lake, it may be a possibility that the use of Sonar may be needed in the future to help reset milfoil to the low levels.

-  Milfoil treatment using Renovate OTF @ 150 lb/ac = 8 acres
-  Milfoil and Curlyleaf mix using Reward = 15 acres



Cedar Lake
269 Surface Acres
VanBuren County Porter Township
T4S, R13W, Sect 27, 28, 33
<small>Professional Lake Management, P.O. Box 132, Caledonia, MI 49316 Phone (800) 382-4434</small>