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[www.lakeproinc.com](http://www.lakeproinc.com)

Van Etten Lake, Iosco County

September 10, 2022

## 2022 Lake Management Report

2022 was the first year of the current Special Assessment District (SAD) for Van Etten Lake. Oscoda Township retained LakePro as the lake manager. Our lake management strategy was a continuation of our overall plan for the lake. The main goals were:

1. Locate and aggressively treat any Eurasian Milfoil
2. Locate and treat any other invasive species, such as Curly-Leaf Pondweed
3. Promote native plant growth, while keeping it below nuisance levels
4. Keep cyanobacteria blooms under control

In the spring, LakePro solicited bids for the herbicide treatments and Clarke Aquatics was awarded the contract. Clarke had previously been awarded the contract in 2021.

During surveys, LakePro utilizes BioBase software to record vegetation densities to better allow us to make a treatment plan. We mark locations using a GPS and make notes for each waypoint. BioBase creates a “heat map” of the lake and we compare that to our waypoints and notes in order to complete our recommendation as well as work with the applicator.

The following is a summary of lake management activities that took place in 2022:

**June 2<sup>nd</sup>**

### **Lake Vegetation Survey #1**

LakePro surveyed the aquatic plants in the lake. During this survey we did not find any Eurasian Milfoil but did find a small patch of curly-leaf pondweed in the Loud Dr. south area. Native plant growth was present in a few shoreline areas of the lake including Loud Dr. middle and north, F-41 south, W Shore Dr., and Lakeview Dr. This survey was earlier than the last couple years. Growth was just beginning and had not yet reached the surface. Based on the results of this survey, we designed a custom treatment plan for review and approval from the Weed Committee.

**June 29<sup>th</sup>**

### **Herbicide Treatment #1**

Clarke applied herbicides at several locations around the lake for algae curly-leaf and native plants. The treatment included 46.2 acres with contact herbicides and algicides. The total cost of the treatment was \$14,694.50. LakePro was also on the lake to ensure the treatment took place according to the plan and the lake was postings were done correctly the day before.

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**August 2<sup>nd</sup> Lake Vegetation Survey #2**

LakePro surveyed the aquatic plants in the lake. Our first objective was to check the previous treatment areas, and the treatment was successful in controlling the native plants and curly-leaf pondweed. We looked for any invasive species, but did not find any in the lake. We then noted all the new areas of native plant and algae growth that were at or approaching nuisance conditions. These new areas included Ratliff Beach, and Loud Dr. Middle. Based on the results of this survey, we designed a custom treatment plan for review and approval by the Weed Committee.

**August 11<sup>th</sup> Herbicide Treatment #2**

Clarke applied herbicides at several locations around the lake for algae and native plants. The treatment included 18.5 acres with contact herbicides and algicides. It also included SeClear in 75.0 acres of shoreline. The total cost of the treatment was \$26,176.00. LakePro was also on the lake to ensure the treatment took place according to the plan and the lake was postings were done correctly the day before.





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## Summary

2022 marked another year without Eurasian Milfoil in the lake. This allowed LakePro and Clarke to focus on the small area of Curly-leaf, nuisance native plants, and algae.

For the first survey, LakePro surveyed the littoral zone of the lake and did not find any invasive Eurasian Milfoil. We did find one patch of Curly-leaf. We marked the areas of Curly-leaf, nuisance algae, and native plants for treatment. With approval, Clarke came out and treated 46.2 acres for those plants.

The second survey determined the first treatment to be quite successful. Areas in need of nuisance plant control was reduced and allowed us to recommend the application of SeClear. The second treatment included 18.5 acres of contact herbicides for nuisance plants and SeClear to the entire developed shoreline of the lake, 75.0 acres, which is maximum area we were allowed by the ANC permit. SeClear was specifically selected for use due to another active ingredient in the formulation which binds phosphorus particles in the water. This provides the immediate effect of reducing the available nutrient in the waterbody. The goal for reducing that nutrient was to prevent or delay the cyanobacteria bloom that occurs in the lake annually.

The 2022 lake management was successful. We met the primary goals of monitoring for Eurasian Milfoil, watching for other invasive species, and suppressing nuisance plants. The earlier start this year allowed us to get ahead of any big pondweed blooms. The later SeClear application may have also helped in reducing the cyanobacteria bloom compared to 2021.

The aquatic plant management on Van Etten Lake is progressing efficiently, but is not complete. Continuing your efforts is vital to keeping the lake in the great condition we saw this summer. We must diligently search for new introductions of invasive species and continuing to manage native plant growth below nuisance levels to continue to make boating, swimming, and fishing better for everyone on the lake.

Thanks for another great summer on your lake,

Tyson Wood

Lake Manager – LakePro, Inc.

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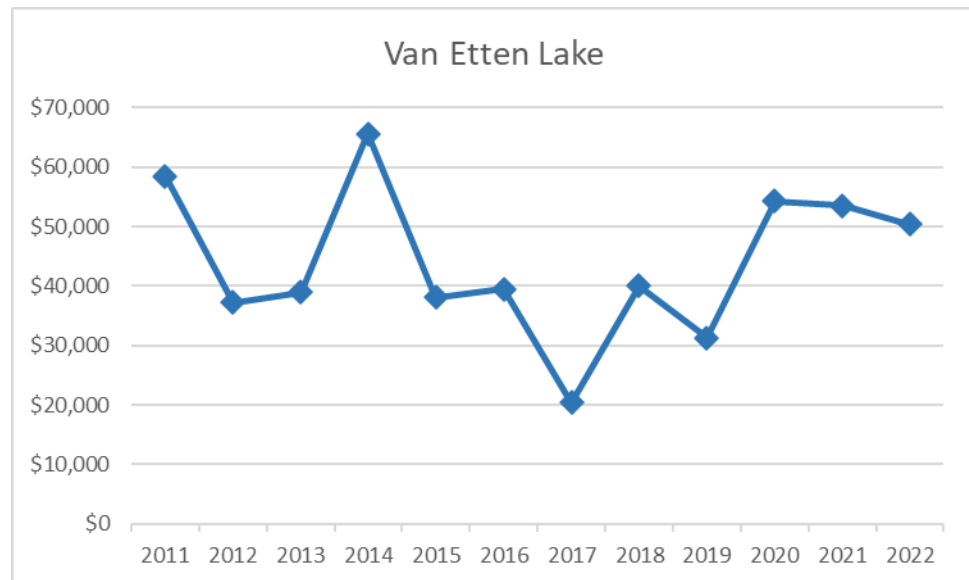
## 2022 Lake Management Expenditures

LakePro, Inc.	Lake Management Consulting	\$ 8,000.00
EGLE	Aquatic Nuisance Control Permit	\$ 1,500.00
Clarke Aquatics	Treatment #1	\$14,694.50
Clarke Aquatics	Treatment #2	\$26,176.00

**2022 Lake Management Total: \$50,370.50**

## Historical Lake Management Expenditures

2022	\$50,370.50
2021	\$54,967.50
2020	\$54,292.50
2019	\$31,315.00
2018	\$40,030.00
2017	\$20,404.00
2016	\$39,510.00
2015	\$38,120.00
2014	\$65,601.92
2013	\$38,897.50
2012	\$37,254.50
2011	\$58,475.25



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