

Lake Demontreville Olson Association 2017 Eurasian Watermilfoil treatment program

History:

Eurasian Water Milfoil (EWM), a non-native invasive aquatic plant, was discovered in Lake Demontreville in 2008. Small spot treatments were applied in 2009 and EWM was not found again until 2011. By 2014 it had spread to Lake Olson and increased in density on Lake Demontreville. Over the next several years, the LDO made many attempts to gather funding for EWM treatment, but was unsuccessful due to permitting and having matching funds available. The LDO obtained grant money in 2015 that was used along with LDO member dues for a mid-lake treatment providing seasonal relief to both lakes. The LDO was again able to obtain grant money in 2016 that was used along with LDO member dues for another mid-lake treatment which provided seasonal relief. In 2017, the LDO acquired grants and funding from several sources, including LDO member dues, and we created the treatment plan detailed below.

Organization support and funding:

- Washington County
- Valley Branch Watershed District
- MN DNR
- Washington County Conservation District
- City of Lake Elmo
- Barr Engineering
- PLM Lake and Land Management

2017 EWM Treatment plan:

Working with the DNR, Barr engineering and others, the LDO developed a plan to treat the EWM in the lakes in 2017 using 2,4-D with the following changes to the application method:

- Treat dockside with 2, 4-D at the same time as the mid-lake treatments
- Apply treatment at a temperature a few degrees higher than in the past

Treatment Application:

PLM provided the mid-lake and dockside treatment application on June 1st using three boats. One boat focused on applying the mid-lake treatment to the areas on the map, another applied a copper sulfate treatment dockside prior to the third boat providing the 2, 4-D dockside application. Two things to note:

- Unusually high water in the spring triggered a High Water No Wake from the City that was in effect prior to and during the June 1st treatment.
- Weather on the treatment day was gorgeous – a warm sunny day with no clouds and no wind.

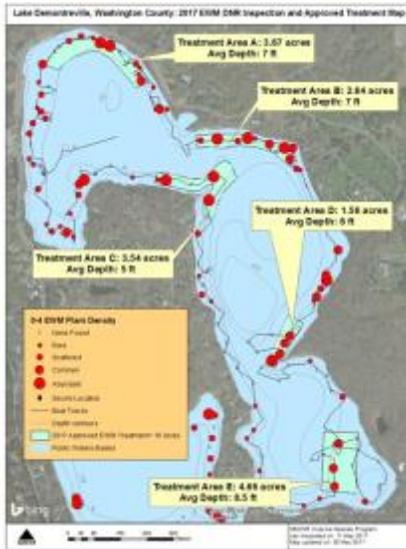
While we do not have any scientific data on the June 1st treatment, the following is a summary of observations on the lakes. These observations were confirmed on July 7th with a follow-up inspection from the DNR.

Results:

Current observations show heavy EWM KILL in treated areas and seasonal relief outside treatment areas. The DNR will only authorize treatment of 15% of the total littoral area of any lake which includes the dockside treatment areas. Those who treated dockside with the LDO this year helped by having more herbicide distributed throughout the lake. We thank the City of Lake Elmo, the Valley Branch Watershed District, Washington County and the DNR along with residents who participated in the LDO dockside treatment program for contributing to the cost of the mid-lake treatment. Treatment area maps as well as before and after photos of some of the treatment areas are on the following pages. When viewing the treatment maps, the Aqua colored areas are the DNR approved treatment sites and the red dots are EWM density. While hard to read, the shoreline distribution map does show the dockside areas that were treated with the mid-lake application. Other photos are before and after shots of a couple areas and the treatment application; they are all similar so I am only including a few.

Lake treatment areas for spring of 2017

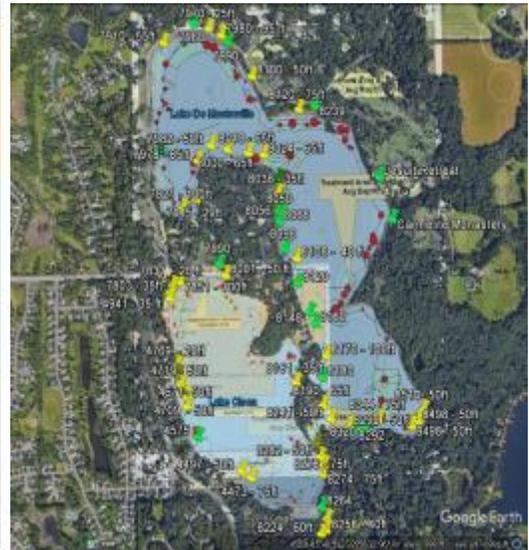
Demontreville Mid-Lake



Olson Mid-Lake



Shoreline treatment distribution



Demontreville Area B & E

June 1st

June 27th

June 1st

June 27th



Olson Area A & C

June 1st

June 27th

June 1st

June 27th



Lake treatment areas for spring of 2017 (continued)

PLM Preparation



PLM DNR inspection



PLM Mid-lake application



Copper Sulfate Treatment



Copper Sulfate Treatment



PLM Dockside 2, 4-D



Channel Algae June 1st



Channel Algae June 27th



Olson Blue Algae



I would like to thank everyone for your support. As can be seen in the photos, we had a very successful treatment this year. Not only did our treatment kill the EWM in the treatment areas, but it also knocked down EWM outside of the treatment areas. The copper sulfate treatment also helped reduce the excessive algae in the lakes, and the water is very clear this year for all residents to enjoy. Hope to see you on the lakes.

Link Lavey
LDO President
Link.lavey@gmail.com