



August 2, 2017

Lake of the Woods
Attn: Bob Richter

The following information is for your review regarding the aquatic management program for **Lake of the Woods for the 2018 season.**

The 2017 was successful yet challenging year in regards to exotic plant control. Sonar A.S. was applied to the whole lake for Eurasian watermilfoil control. This was the same treatment applied back in 2006 and it provided nearly 10 years of control. Hopefully we will see the same results. The recent introduction of Starry stonewort has created new challenges for management and it will likely be the primary target of management in the upcoming seasons. Eurasian watermilfoil and curlyleaf pondweed will be spot treated as needed.

Management program for 2018

Products to be applied: Sonar A.S., Navigate (granular 2,4-D), Sculpin, Renovate 3, Renovate OTF, Renovate Max G, Aquathol K, Hydrothol 191, Diquat, Clipper and non-water restrictive products such as Nautique, Komeen Crystals, Copper Sulfate, Cutrine-Plus, Cygnet Plus and shade as a tracer.

April/May: Survey of lake to determine any possible areas of Eurasian Watermilfoil growth. If any Eurasian Watermilfoil is found, it will be treated with Navigate (2,4-D), Renovate and/or Reward and Cutrine-Plus. ** Algae treatments will be performed on an as needed basis. Evaluations and spot weed treatments will be conducted as needed during June, July, and August.

Treatment areas will be based on a spring survey. Treatment cost will be presented to the association after the survey and treatment will take place once the association has given approval.

2018 unit cost per acre.

Navigate:	\$400.00
Renovate 3:	\$400.00
Renovate OTF:	\$485.00
Renovate Max G:	\$435.00
Sculpin:	\$385.00
Diquat:	\$240.00
Aquathol K/Hydrothol 191:	\$215.00
Algaecides:	\$50.00
Harvesting:	\$240.00 (per hr, \$4,000.00 min)
AVAS Survey	\$450.00

Water Quality Program:

The water quality program consists of two samples, occurring in the spring, and late summer each season. Parameter such as secchi disc, pH, D.O., conductivity, alkalinity and nutrient sampling of total nitrogen and total phosphorus give us the ability to monitor lake trends more efficiently. This information will enable us to include the trophic status of your lake. The program also tests your water for Fecal bacteria (E. Coli), in mid-summer which can determine the condition of your lake and if the water is safe for swimming. Reports will be issued annually in the fall.

Cost for Water Quality Program: \$610.00

Estimated cost of management program for 2018: \$18,500.00

Note: We estimate that the cost to monitor and treat your lake will fall within these ranges. Please note that the budget is an **estimate**. You will only be charged for the actual amount of control required, at the unit per acre prices listed above. Prior to each treatment and/or services performed by PLM Lake and Land Management will require prior approval by the Lake of the Woods Association. This protocol allows the Association to confirm budget/monies are being used efficiently and not exceeding recommendations.

I look forward to the challenge of controlling the algae and weed growth in **Lake of the Woods** and working with you next summer.

Information regarding proposed treatment dates will be mailed in early spring of 2018.

Sincerely,



Andy Tomaszewski, Ecologist
Southern Regional Manager
PLM Lake & Land Management