



Willow Lake Project Overview

Willow Lake is an 8 acre lake at the center of the Parkview Hills Community in Kalamazoo Michigan. Like many small lakes in developed areas, Willow Lake is receiving more nutrients than it can handle leading to excessive weed and algae growth.

In fact, the lake was in such poor condition by the Spring of 2007 that the Community Board had began investigating the possibility of a major dredging of the lake. Faced with a high six figure expenditure for the dredging project, Parkview Hills decided to look for alternative treatment methods.

After careful review, the board decided to move forward with a chemical treatment option and the installation of a Clean-Flo System for Willow Lake at a fraction of the cost of dredging.

Treatment Approach

- ▶ **Clean-Flo System installed on June 18, 2007**
- ▶ **One-time chemical treatment for milfoil and algae on June 27, 2007**
- ▶ **Introduction of Clean-Flo Bacteria and Enzyme treatment on July 16, 2007**
- ▶ **Manual cutting and removal program for lily pads.**

Lake Savers performed all of the work except the chemical treatment for milfoil. The purpose of the chemical treatment was to give the Clean-Flo System a “running start” at reducing weed and algae growth.

The Chemical Application company stated that they thought that 3 -4 additional treatments would be necessary for weeds and algae “no matter what kind of aeration system was installed in the lake”

No further chemical treatments were necessary in 2007 and none are scheduled for 2008.

How well is the Clean-Flo System working?

- ▶ **No re-growth of milfoil.**
- ▶ **Elimination of the filamentous algae problem**
- ▶ **Clear evidence of muck and dead plant reduction due to increased biological action.**
- ▶ **Improved habitat for fish and waterfowl.**
- ▶ **No need for further chemical treatment.**

See the pictures on the following two pages for more of the story...

Lake Savers, LLC Management Strategies for Healthier Lakes

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Willow Lake on June 18, 2007 Before Clean-Flo System Installation



Willow Lake on June 23, 2007 5 days After Clean-Flo System Installation and BEFORE One-Time Chemical Treatment





Willow Lake – Picture of a Clean-Flo Diffuser in Action. 12 Diffusers in Total are in operation in the Lake



Evidence of rapid Decomposition of Organic Material – Dead Plants and Muck

Willow Lake Bottom Picture July 15, 2007 (*Bottom area near Diffusers*)



Willow Lake Bottom Pictures July 15, 2007 (*Area Not Yet Impacted By the System*)

