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Service Report

Date: May 24, 2007

Biologist: Doug Charles

Client: Lake Asbury Municipal Service

Contact: Mr. Larry Pitts

Waterways: North and South Lake Asbury

Comments:

North Lake Asbury

The hydrilla has spread in all areas of the lake that have been infested before. The tubers have sprouted and grown at a tremendous rate. Please refer to the enclosed map that indicates where the hydrilla is now. The hydrilla is so heavy in the coves that boats will have difficulty getting through the hydrilla. The filamentous algae that had bloomed last month is still bad in areas, but as I indicated in our meeting, it will dissipate as the lake starts discharging again. As far as the hydrilla infestation, I recommend one of two options. The first option would be to treat the hydrilla with 235 gallons of Aquathol K (liquid). This is the same amount applied in February of 2006. The cost for this application was \$16,900. I would then recommend stocking 1000 triploid grass carp ASAP. I can get grass carp from Arkansas for \$4.00 per fish. I would need to order them well in advance. This cost would be \$4000.

The second option would be to conduct a major drawdown of the lake. This drawdown would expose and kill most of the hydrilla in the lake, since most

of the hydrilla is growing in the shallows. If the dead dry hydrilla could be raked out, a large amount of nutrients would be removed from the lake. We would still want to stock 1000 more grass carp as in the first option as soon as the drawdown is complete. In addition, during the drawdown we could fix the control structures and valves much more easily and for less money. I believe that the second option is the better option for the following reasons.

- 1) The cost to control the hydrilla is much less and possibly the only affordable option.
- 2) This method of hydrilla control has worked before.
- 3) The drawdown would tie up a lot of the nutrients and eliminate most of the algae.
- 4) The cost to fix the control structures will be less and drawing down the lake may be the only way to fix them.
- 5) If we do not fix the control structures now, the leaks could lead to a breach in the dam and unforeseeable problems with the dam.

There are disadvantages to the drawdown. The use of the lake would be limited at the worst time of the year. Also, we have been told by engineers that a major drawdown could compromise the integrity of the dam.

While I was on the lake I took three fecal coliform tests that I will have results next week. I will get you the results with their interpretation as soon as possible.

South Lake Asbury

Results from last months treatment on the lilies and bladderwort were very good. I knocked back the lilies and the bladderwort considerably. I treated the bladderwort again in the extreme southern tip and the southeast cove of the lake. All in all, the south lake is doing very well.

Notes: I look forward to hearing from you regarding the drawdown option.

Email with questions or comments.

Doug Charles