

Weed Committee Report – GLA Board Meeting – 10-30-2017

The Weed Committee met on October 24th, 2017 at 6:30pm in the Goose Lake meeting room. In attendance were Joe Turk, John Yanites, Mike Dunbar, Phil Seedy and Tony Sartoris, all representing Goose Lake and Chris Cartwright from Rollins Aquatic.

Mike Dunbar and Phil Sheedy are members of the Fish Committee and were invited to the Weed Committee meeting keeping with the Weed Committee's long standing tradition of working with the Fish Committee.

Some basic views of the Weed Committee:

- The lakes are our #1 asset and are the only asset that directly and significantly affects our property values.
- The Aquatic Plant Control vendor will treat surface and emerging weeds located around property owner's boat docks/piers and affected usable beach areas.
- The weed program does not include removal of weeds along entire stretches of property.
- Our goal is to maintain a balance of clear waterways for navigation and enjoyment of the lake as well as habitat for aquatic life and the overall health of the lake.
- The Weed Committee will continue in expanding the growth of native aquatic plants and will only treat these plants if they interfere with use of the lake as described above.
- We will maintain a Fish Habitat in conjunction with input from the Fish Committee and Rollins Aquatic.

The meeting started promptly at 6:30 and lasted until about 9-9:30pm. The agenda was as follows:

1. Review end of year report (Attached pgsxx)
2. Discuss Recommendations for 2018.
3. Discuss plan for expansion of native aquatic plants.
4. Discuss effectiveness of bacteria program for muck mitigation.
5. Comments and questions.
6. Rollins is excused so WC can discuss further.
7. Further discussions and weed committee recommendations.

Rollins reviewed the end of year report, a copy of which is provided on pages xxx of this report. Regarding aquatic plant control the recommendations by Rollins were to spot treat 10 acres on Beaver and 12 acres on Lincoln and to either perform a full lake treatment on Goose or spot treat 15 acres. After much discussion about Goose Lake it was decided to increase the spot treatment by 50% and treat 15 acres on Goose. The last time we did a full lake treatment back in 2008 that treatment wiped out almost all of the aquatic plants for many years. Rollins felt that he could maintain control of the lake this year. The areas of concern brought to Rollins attention by Goose Lake residents were areas that we designated as a habitat preserve and were not treated.

We will have 10 acres treated on Beaver this year and Rollins is considering adding 3-4 acres of additional treatment if needed at no cost. Joe Turk suggested that Rollins provide this due to the ineffective treatments last year. In fairness to Rollins the rains early in the year and the late start due to cold water temperatures played a part in the ineffectiveness of the treatments, although the bump ups should have helped. We will report back when we have an answer.

Lincoln has actually performed well in the last three years so we will go a fourth year with no full lake treatment. Hopefully we can keep Lincoln in the maintenance stage moving forward.

Rollins also say an expansion of native species in all lakes and will not treat those aquatic plants unless they become a nuisance.

The costs of the two options are as follows:

Weed Budget	2018 -Rollins Bid-1 - GL (full), BL 10, LL 12.	2018 -Rollins Bid-2 - GL 15, BL 10, LL 12.
Lincoln	7295	7295
Goose	14409	8900
Beaver	6195	6195
Total Weed Control	27899	22390
LLE Contribution (15%LL)	1094.25	1094.25
Total after LLE Contribution	\$ 26,804.75	\$ 21,295.75

The weed committee unanimously agreed that the Bid #2 option is the way to go for the 2018 aquatic plant treatment. Per protocol set up by the prior boards we are previewing our motion at the October meeting and will make a motion at the November meeting. Our motion will read as follows:

Motion #1 - The Weed Committee makes a motion to contract with Rollins Aquatic for the 2018 season to treat 15 acres on Goose Lake, 10 acres on Beaver Lake and 12 acres on Lincoln Lake at a cost of \$22,390.

Muck Mitigation

The WC spent a lot of time discussing the muck mitigation program and we are looking to expand this program going forward. In 2017 Rollins Aquatic applied MD Pellets to the easternmost channel on Goose as well as the western half of Muskie Trail. Concurrently Joe Turk and John Yanites purchased MD Pellets at their own expense and spread the product in Beaver Lake near their properties. Joe Turk took detailed measurements of the area that he treated. A full report from Joe can be found on pages XXX of this document. Separately Chris Cartwright of Rollins Aquatic applied the treatment on Goose (see Figure 1 pg. x) and took measurements.

Interestingly the difference in the muck levels taken by Joe Turk and Rollins aquatic prior to the treatment compared to the measurements taken after the treatment showed a reduction in muck levels overall to be about 2". Attached to this document are the complete reports from Chris Cartwright of Rollins Aquatic and Joe Turk of Goose Lake Association.

The benefits of a long term, consistent muck mitigation program are:

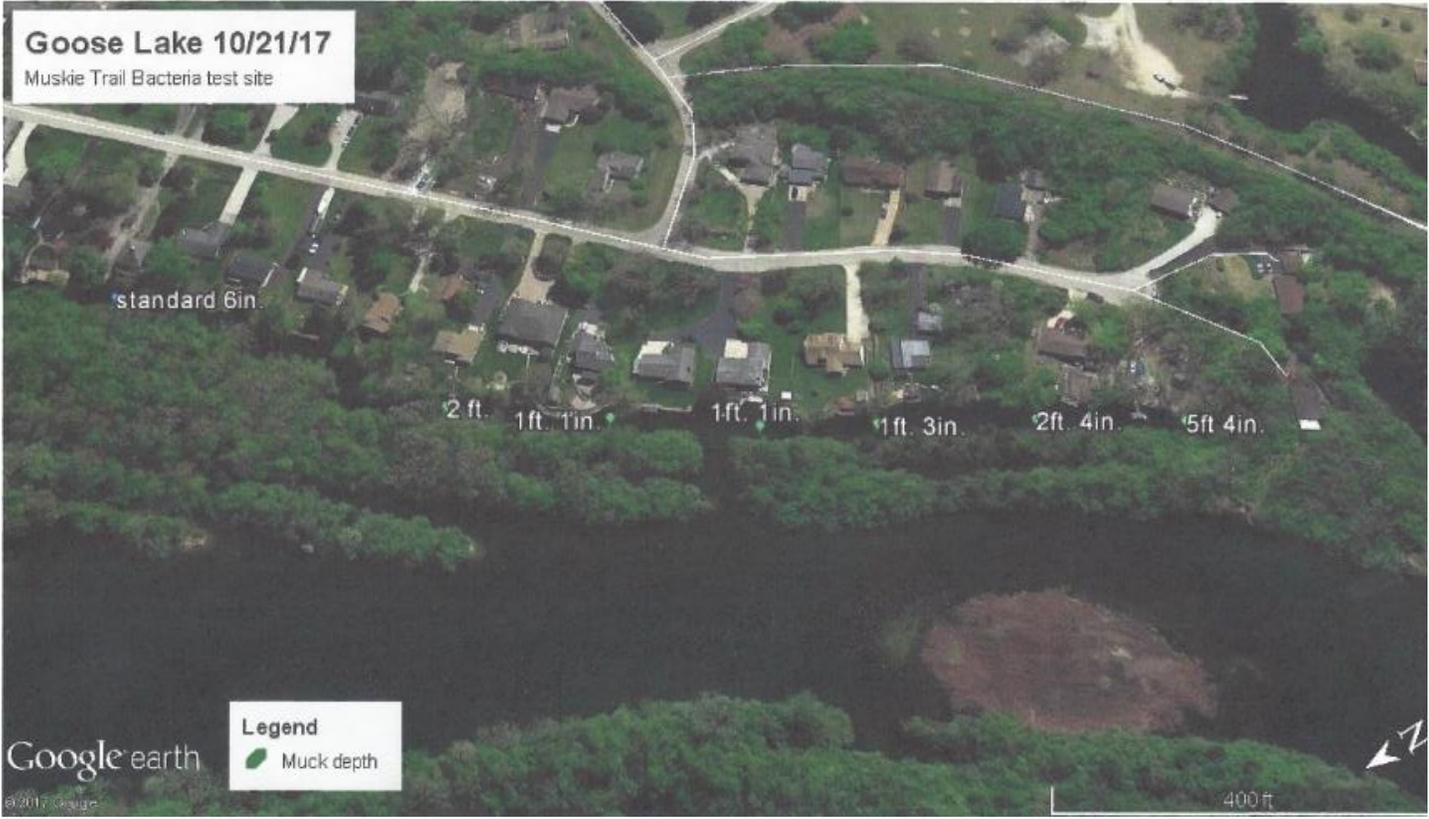
1. Removal of excess nutrients in the lake which add to excessive weed and algae growth and greater water clarity.
2. The cost of this muck mitigation program is a fraction of a program to dredge the lake of its muck.
3. Any pause to such a program wastes the dollars spent in prior years as the organic matter from the trees and bushes surrounding the lake will continue to add to the muck levels.
4. Consistent use should reduce the algae events we experience especially in the Goose Lake Finger Channels and should help reduce weed growth, resulting in costs savings to the weed control program.
5. The muck mitigation program, like the Aquatic Plant Control program, is forever and should be administered consistently over time with no breaks in treatment. Once we get ahead of the problem we need to maintain our gains to protect our lakes.
6. The Weed Committee unanimously agrees that this program should be expanded to include all shallow channels in our lakes.
7. For best results the WC agrees that we continue to have the treatments professionally applied by Rollins Aquatic Solutions.

The Weed Committee proposes to expand the muck treatment into all five finger channels and the entire Muskie Trail channel to the end of the island. See figures 1 and 2 attached. Our proposed expansion of the program will cost \$7,500

for 2018 compared to \$3,000 for 2017. Looking beyond to 2019 (figure 3) the treatment area will include the entire finger channel area , the channel leading to the finger channels, the transverse channel connecting the fingers, and Muskie Trail. We may look into other problematic areas of Beaver and Lincoln and will expand the program each year as needed. We feel that the program was successful this year and would like to continue the program for the next few years, taking measurements each year, in order to measure the effects of the treatments over time. The Weed Committee motion regarding the Muck Mitigation Program will be made at the November meeting as follows:

Motion #2 – The Weed Committee makes a motion to expand the Muck Mitigation program in 2018 to the five finger channels and Muskie Trail to the end of the island at a cost of \$7500, to be professionally applied by Rollins Aquatic Solutions.





Goose Lake 10/21/17

Bluegill Ct Bacteria test site





Figure 1 – Completed muck removal treatment area. (Above)



Figure 2 – Proposed 2018 muck removal treatment area. (Above)

