



3088 Hottis Rd. Hale, MI 48739 Hale: 989.728.2200 Clare: 989.386.0600 Fax: 989.516.5900

September 29, 2016

Henderson Lake
Bill Olsen – Primary Contact
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Lupton MI. 48635

Henderson Lake Property Owners:

It has been a pleasure managing Henderson Lake this summer. Every year seems to bring a unique set of challenges and we welcome the opportunity to meet these challenges every single year. We hope that you continue to feel that your lake was managed professionally, economically, and effectively.

As we wrap up the 2016 season, we are happy to give you a brief re-cap of the work that was performed on Henderson Lake by Savin Lake Services. This year, we treated Henderson Lake (4) times as follows:

On June 21st, 2016 Savin Lake Services conducted our initial application for non-native and exotic plant communities. Also during this treatment, we did an algae spray of the entire developed shoreline, treated native vegetation in the canal and around riparian owners' docks where needed, and a Bacterial Augmentation (Mukk Buster) treatment also took place at this time. Savin Lake Services treated 2.5 acres of Curly Leaf Pondweed with a couple plants of Eurasian Watermilfoil intermixed within the beds of Curly Leaf Pondweed. We treated 17 acres of the lake for algae, 7.5 acres of the lake for various pondweeds like Richardson's Pondweed, and Baby Pondweed. There was also 5 acres of the lake that received a Mukk Buster treatment.

On July 15th, 2016 Savin Lake Services conducted a vegetation survey of Henderson Lake. There was a lot of concern about the lack of native weeds in the lake. This survey was conducted using a high frequency sonar system to identify areas of the lake that vegetation was present, then we tossed a rake in those areas to determine which plant communities existed in those areas. It was found that the entire littoral zone (out to about the 15 ft. depth contour) contained native vegetation. Our findings lead us to theorize that the majority of the lake bottom has been covered in Chara, which has blanketed the bottom of the lake not allowing the native weed beds that used to exist to receive any sunlight and grow like they did in years past. Chara is one of the best plants a lake could have, it helps to clarify the water column, provides great shelter for smaller fish, and also is very desirable areas for fish to spawn in. There was a full report generated off this survey, if you would like a copy of the more detailed report, it is available to view on Henderson Lakes website HendersonLake.org, or please contact us, we would be happy to give you a copy.

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On July 26th, 2016 Savin Lake Services conducted our second herbicide application, algae spray, and Bacterial Augmentation treatment on Henderson Lake. This treatment consisted of 12.5 acres of herbicide control for various pondweeds like Richardson's Pondweed, Baby Pondweed, a few plants of Large leafed pondweed, and Bladderwort. We also treated 17 acres, the entire developed shoreline for algae with algaecides, and did another 5 acres of Mukk Buster application in the same area we treated during the June 21st treatment. It was agreed upon during our telephone conference call to use more Mukk Buster for this application.

On September 7th, 2016 Savin Lake Services conducted our final herbicide treatment, algae spray, and Bacterial Augmentation treatment for the year. This treatment consisted of an algae spray in the developed areas of the lake (17 acres), and 5 acres of herbicide treatment for Richardson's pondweed. Also during this time, we did the last Bacterial Augmentation treatment for the year in the same areas as we did earlier this year, as it requires 3 treatments per season for the greatest efficacy.

On September 15th, 2016 we returned to Henderson Lake to complete an Emergent treatment as we did not have ideal weather conditions for this application to take place during the September 7th application. During this application we treated lily pads, cattails, and phragmites. We treated 40 ft. X 40 ft. areas for these emergent plant communities around people's docks and swim areas.

On September 28th, 2016 Savin Lake Services sent our Aquatic Biologist out to Henderson Lake to do some Water Quality testing. During our telephone conference call with myself, Bill Olsen, and many other HLMC Members, it was decided that we would do some water quality studies to ensure the lake was in a healthy state. There were (3) sites that we obtained water samples from on the lake, with one of the sites being the deepest spot in the lake. These samples and sites were and will be analyzed for the following: Temperature, Dissolved oxygen, Total Alkalinity, Total Phosphorus, Total Nitrate Nitrogen, Conductivity, pH (surface only), Chlorophyll a (surface only), and a Secchi disk depth. After these samples are analyzed there will be a report generated and made available for the Henderson Lake Property Owners. This report usually is completed in December. You can obtain this report by contacting myself, Bill Olsen, or any members of the weed control committee. We plan to continue with the Water Quality testing through the 2017 season as it will give us a vast amount of information that we can use for a trending analysis.

Every treatment, survey, or water quality study that Savin Lake Services has performed, we have provided maps, or generated full reports on the work completed. All treatment maps and reports for 2015 and 2016 are available for you to view on your website HendersonLake.org.

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Please keep in mind that we are a fully integrated lakes management company offering solutions including but not limited to mechanical harvesting, herbicide control, dredging, bio-augmentation, and aeration. Savin Lake Services also offers a complete range of water quality testing, depth contour mapping, individual property solutions, and even aquatic plant density reporting.

We look forward to serving you in 2017. We plan to keep the same treatment plans for next year as we did this year. We see no reason to deviate from the current treatment plan. We feel this plan is the most effective and efficient way to keep Henderson Lake clean and desirable for use by the Henderson Lake residents. Until then; if you have any questions, comments, or require additional information, feel free to contact us.

Sincerely,

Paul Barber - Regional Lakes Manager

Savin Lake Services Inc.

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