



MUCK REDUCTION SUCCESS UTILIZING NATURALAKE MD PELLETS & BIOLOGICS



ROGER HINTZSCHE POND
AMBOY, IL 61310
2018-2019



P.O. BOX 738
YORKVILLE, IL 60560
WWW.TERRAPINAQUATICS.COM



INTRODUCTION

Our subject pond, located in Amboy, IL, is a 12 acre pond situated on a personal property and used mainly for recreation. The goal for this body of water was muck reduction in four different specified areas, to eliminated organic matter and regain depth in the specified areas.

Utilizing the Sludge Judge measuring device, muck measurements were taken in the Spring and post-application in the Fall for both the 2018 and 2019 seasons. We used a mapping system to plot our testing points to ensure accurate locations when performing the follow up testing in Fall.

TREATMENT PLAN

The focus for this pond was reducing the bottom layer of muck to regain depth in the designated areas, reduce the amount of available nutrients within the pond, and to improve the overall water quality of the pond. A customized management plan was created based on these goals, and included the use of a combination of MD Pellets, Pondzilla Pro and SeClear.



Our lovely assistant Bertha helping take muck measurements

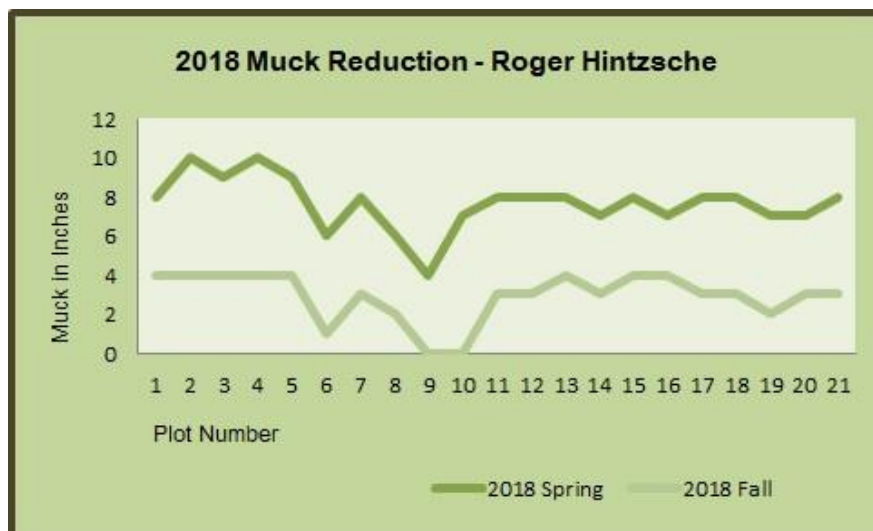
PRE-TREATMENT MEASUREMENTS – SPRING 2018

The areas of concentration for 2018 muck reduction were along the shorelines of the Southwest, Northeast and Southeast edges of the pond. An average of 8" of muck was present in these areas, ranging from 4" up to 10" in some spots.



POST-TREATMENT MEASUREMENTS – FALL 2018

Measurements were taken from the same locations to maintain accuracy regarding the amount of muck reduction. There was a significant drop in the amount of muck present after treatment, ranging from 0" (no detectable muck) to 4". The average of muck still present was down to an average of 3" across the treatment area, resulting in a 63% decrease of muck, and an average of 5" of depth regained.



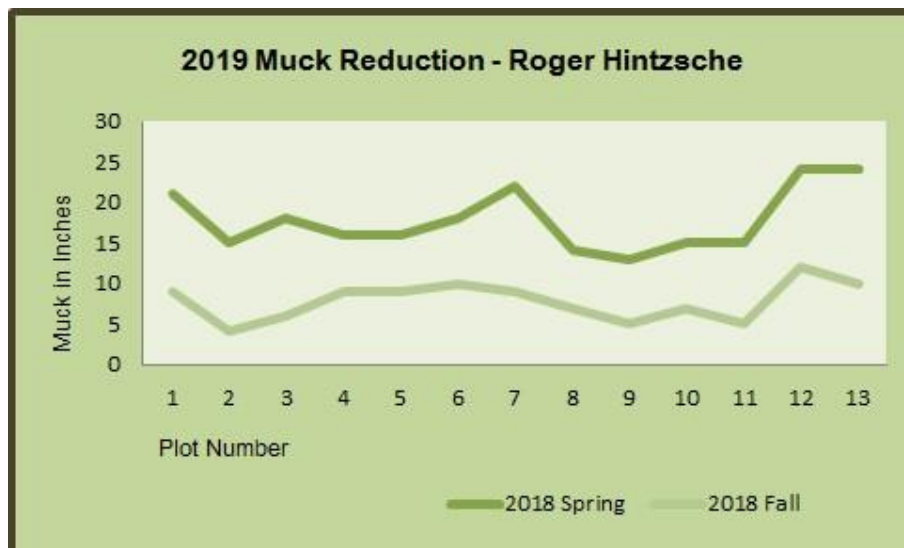
PRE-TREATMENT MEASUREMENTS – SPRING 2019

Our area of concentration for 2019 muck reduction was the northeast middle section of the pond. Pre-treatment measurements showed an average of 16” of muck, with a range of 13”-18” throughout the target area.



POST-TREATMENT MEASUREMENTS – FALL 2019

As in 2018, measurements were taken from the same locations to maintain accuracy for comparison. The overall average of muck post-treatment was 8” across the designated area, with readings between 4”-12”, resulting in a 50% average decrease of muck, and an average of 8” of depth regained.



CONCLUSION

Based on the post-treatment measurements for 2018 & 2019, we have experienced a great decrease of muck in the designated treatment areas, and by combining the MD Pellets with SeClear and Pondzilla Pro, we have seen an increase in the overall water quality at this property. We will continue to implement the MD Muck reduction program at this property, focusing on the middle section again for 2020.



Pond management and treatments performed by Tara Evans, Owner
Data analysis and report generated by Whitney Millikan, Aquatic Specialist

