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Naturalake Biosciences Case Study 2020

Cypress Pond

INITIAL SURVEY

The Lake Doctors, Inc. was contacted in order to conduct a survey of the stormwater ponds in the Cypress Pond Community in Wilmington, NC. Upon my inspection, I found that one of the stormwater ponds had a severe infestation of alligator weed, torpedo grass and primrose willow which had created a vegetative/muck mat that spanned the ponds surface in its' entirety.

The outfall structure was completely occluded with muck and vegetation as well. The severity of the situation made it difficult to ascertain that a pond was even there. At the time of the survey, There was little to no storage capacity and the stormwater pond was unable to function as designed.



TREATMENT PLAN

It was determined that using an integrated water management program was the best approach for the community to restore aesthetics and function to the property. Due to the abundance of growth, the pond was broken up into sections. The first step was utilizing an EPA approved herbicide along with Naturalake's AquaSticker to obtain a quick kill of the large mass of vegetation. Then, Naturalake's Nature's Blend and PondZilla Pro were used to speed up the breakdown process by spraying over the surface of the dead vegetation. After the initial vegetation layer was degraded, a large root/muck mass was visible on the ponds' surface. Utilizing Naturalake's MuckBiotics, the remaining accumulated organic matter was digested.

TREATMENT SUMMARY

4 treatments, 30 days apart - initial target: torpedo grass and alligator weed

1. AquaSticker + herbicide
2. AquaSticker + herbicide +PondZilla Pro
3. PondZilla Pro + Nature's Blend at 3 lb/acre + MuckBiotics at 40 lb/acre
4. PondZilla Pro + MuckBiotics at 40 lb/acre

RESULTS

- Increased storage volume
- A functioning stormwater pond
- Cost savings
- A solution to a problem

Although this project is not complete, I am confident that Naturalake Biosciences products were vital in restoring the water resource and continue to aid in its improvement and maintenance.

