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(R-3) PROJECT REFERENCE NORTHERN PALM BEACH COUNTY IMPROVEMENT DISTRICT UNIT 18 IBIS GCC LAKE 5 v3

By Elroy Timmer

Aquatic Vegetation Control, Inc. Senior Scientist



Project Description

Owner: Northern Palm Beach County Improvement District
Contracting Agency: Northern Palm Beach County Improvement District
Project Location: NPBCID Unit 18 Ibis Golf and Country Club, Lake 10/13
Project Size: Lake 5 was 15 acres.
Project Purpose: Reduce the muck bottom, increase the lake's holding capacity, improve aesthetics and lower the trophic state index.

Materials:

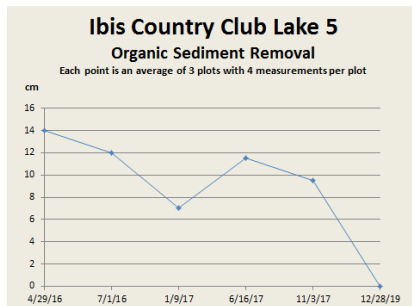
Aquatic Vegetation Control, Inc. set up a 200 gallon Bio-Generator on shore of the lake. The delivery pump and internal aerator were put online to aid in the augmentation process.

Methods:

AVC installed the Bio-Zyme product in the 200 gallon tank and distributed the finished product in the 15 acre treatment area weekly for a period of thirteen months.

Results:

The treatment prescription was to apply 200 gallons of incubated Bio-Zyme per week to the 15 acre trial area. This continues today. The bottom organic sediments were reduced from 14 cm to 0 cm in a period of forty months. On 12/14/2019 the total phosphorous was 0.010. The initial phosphorous was 0.13. This is an excellent improvement for a lake that borders a golf course. This muck took longer to disintegrate than in most lakes. We believe that was due to the large amount of copper that had been used in that lake. Copper inhibits bacteria from reproducing.





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