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Lake Apopka Restoration Project
Weekly Report
6/17/68 6/21/68

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Preparations were made this week to enact the various summer research project on Lake Apopka, based on the fact all five (5) of the student summer help has reported for work.

These summer research work projects consists of the following:

1. Nutrients leaching from groves study: a series of two wells will be placed on the North, South, East and West of shore of Lake Apopka in an attempt to determine this amount of nutrient leaching into Lake Apopka. This will be done by placing one well in the groves edge and one 10' from the shore line. The wells will be 1 1/2" in diameter with a 20" 90 mesh screen on the end. It will be driven to 1 1/2' below the upper most water table level. These wells will be sampled once per month by Lake Apopka work force.
2. Nutrients in rain waters: Rain samplers will be set out on North, South, East and West shore of Lake Apopka. Samples will be collected at least twice per month.
3. Updating biological work: Both bottom (macroscopic) and Plankton samples within lake and muck farm canals will be obtained at same stations as Florida State Board of Health 1965 report and 1967 work force stations.
4. Bottom mud-silt studies: duplicate with refinement in technique the 1967 bottom drying studies for verification of results.
5. Construct nutrient removal pilot plant on farming: This will be done to determine cost, feasibility and operation techniques of treating agriculture waste discharges prior to their being released into Lake Apopka. A scale model of the isolation levee (one mile dyke) will be constructed. Will continue nutrient removal pilot plant facility at the County Sewage Treatment Plant.

continued

6. Flocculation and Aeration studies of Bottom Silts: Lab studies to get feasibility and cost.
7. Aquatic Plant studies: On shore in 10' x 33" Plastic pools. Will raise plants under existing and restored conditions of Lake Apopka to determine if a certain plant will grow, Now and when restored.
8. Bottom dredging experiments: If funds become available.
9. Expanding sampling of farm discharges: Plan to sample those pumps that discharge directly into the Beauclair canal.

This work was started June 20, 1968 by the summer help added to the Lake Apopka work force. It is anticipated the wells, rain samplers, bottom drying and plants work should be constructed and in operation by July 19.

The Chairman and a portion of the Lake Apopka work force attended the Hyacinth control Society Annual Meeting held in Winter Park June 16 - 19, 1968. There were many interesting talks on all aspects of aquatic weed control. The Chairman and Mr. Ray Kaleel (Biologist with the Orange County Water Department) presented a paper entitled "Lake Apopka Aquatic Weeds". Copies will be distributed upon request.

The Lake Apopka work force checked various existing research projects on June 20, 1968 and found all to be in satisfactory condition.

G.W.S.

cc: Commissioner Paul Pickett
 Commissioner Sanford Padgett
 Commissioner Cliff Freeman
 Senator Robert Elrod
 Senator Kenneth Plante
 A.A. Sinclair
 V.D. Patton