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CHARLES AOUACULTURE, LLC

15350 N US Highway 301 Citra, FL 32113

LAPR Office: 352-595-8863 Fish farm Office: 352-595-1700

Service Report

Date: August 28, 2023 **Biologist:** Doug Charles

Client: Palencia, Marsh Creek CDD Ratings: 1 – 10 (Best is 10)

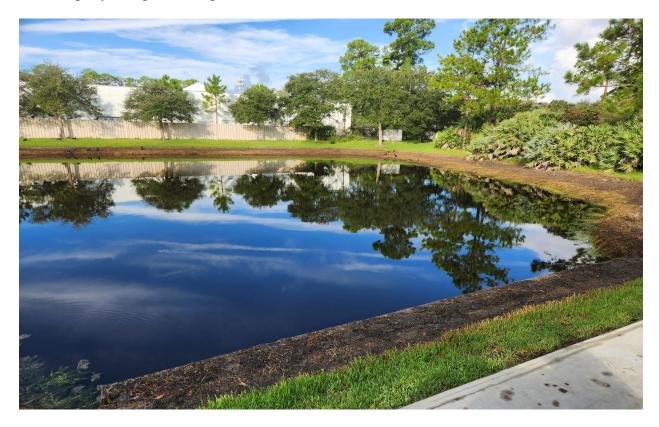
Waterways: 32 ponds Herbicides used: Schooner, copper sulfate,

Cutrine

Lake 1: Rated: 7

• Pond level is back to normal after clearing clogged fish barrier. Grass will grow back that were submerged.

• Spotty bacopa around perimeter.



Treatment: I hand raked some bacopa out of the pond.

Recommendations: Stock more grass carp.

Lake 2: Rated: 6

- This pond is directly connected to Lake 1 and was high before unclogging the fish barrier.
- Moderate bacopa around perimeter.



Treatment: I hand raked some bacopa.

Recommendations: I plan to stock grass carp this Fall to better control the bacopa.

Lake MUB-4: Rated: 8

- Minor floating debris that grass carp have removed.
- Minor alligatorweed around perimeter.



<u>Treatment</u>: I hand raked the alligatorweed and some of the floating debris.

Recommendations: None.

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Lake A South: Rated: 7

• Minimal shoreline grasses.

• Naiad growing in the shallows around the pond.



Treatment: I will treat the naiad once the irrigation has been restricted for 3 days.

Recommendations: I plan to stock more grass carp this Fall.

Lake E: Rated: 5

- Moderate grasses around perimeter.
- Heavy floating algae.
- Spotty naiad in cove area.



<u>Treatment</u>: I launched the airboat and treated the grasses, algae, and naiad. I also used the airboat to break up the decaying algae at the surface which has broken off the pond bottom in mats. <u>Recommendations</u>: I plan to stock more grass carp.

Lake SV3: Rated: 5

- Good kill on most of the shoreline grasses.
- Heavy algae bloom.



<u>Treatment</u>: I treated the algae by broadcasting algaecide and hand raked some of the dying floating grasses.

Recommendations: I would like boat access to this pond if possible.

Lake I-1: Rated: 9

• Good kill on shoreline grasses from last treatment.



<u>Treatment</u>: None needed. <u>Recommendations</u>: None.

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Lake V-2: Rated: 7

• Minor grasses around perimeter.

- Moderate dying spikerush and chara from previous treatment.
- Water level is low and fish barriers are off in preparation for the hurricane.



Treatment: I made sure barriers were off.

Recommendations: I plan to stock more grass carp this Fall.

Lake 6: Rated: 5

- Good kill on grasses, but spikerush is still heavy.
- Algae is growing on topped out spikerush.



Treatment: I need to restrict irrigation for 5 days so I can treat the spikerush.

Recommendations: I plan to stock grass carp in the winter.

Lake Y-2: Rated: 10

• Awesome condition.



<u>Treatment</u>: None needed. <u>Recommendations</u>: None.

Lake L: Rated: 10

• Excellent condition.



Treatment: None needed.

Recommendations: Keep a lookout for gators.

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Lake SV2B: Rated: 10

Minimal torpedo grass.

Beneficial grasses are doing well.



Treatment: None needed. **Recommendations:** None.