# PRESIDENT'S LETTER

As the Co-operative Year in ABC Harbour drew into the Harvest Moon, we had a large project that will impact every resident. As noted in the December Newsletter, the GHCA Board of Directors approved the Capital Plan for the maintenance and lifetime upkeep of the Harbour Centre and its equipment, consisting of 12 interconnected ponds and our canal.

Our objective, with these solutions, is to achieve a sustainable informed GHCA activity by providing incremental updates each month on each area of responsibility. For the Harbour Centre, we will be using the Capital Plan as our guide, and will be providing updates on the progress of the Capital Plan in each issue of our Newsletter and how it impacts the community as a whole.

This month, in addition to the Harbour Centre updates we will dive a bit into the Pond & Forbury project. This is a large, 12-year project that impacts our ponds, our canal, our Forbury Park, and our Harbour Centre. It is important that we all know the operational impacts. Your objectives have to be met, and we have to be able to plan for the risks of doing nothing and the plan to mitigate the risks.

Bob Pierce – President GHCA

# INFRASTRUCTURE

## Overview

Our Environmental ponds and canal, stretches within Grand Harbor and Oak Harbor are part of a working landscape. They serve two primary functions: flood control and water quality improvement. Our ponds are part of a chain of ponds that drain the surrounding watershed, and our canal connects our ponds to the Forbury Park system of organic matter from overgrowth of aquatic plants, algae and bacteria, due to nutrient pollution from fertilizers, pet waste, and stormwater runoff. It is critical to maintain these assets to meet the City of Florida and Forbury Park documents to meet strict environmental and safety standards.

Our ponds are unique in the ponds will sustain a biomass or accounting to remove organic matter, oil, and metal to achieve specific, measured depths. Pond dredging is a necessary part of pond maintenance, but it is a complex and environmentally sensitive process. They need to be deeper to be effective, but deeper ponds are more expensive, but they also need to be shallower at the edges so we can place aquatic shelf plants to provide habitat for birds and pollinators. Our ponds are part of a chain of ponds, and our canal connects our ponds to the Forbury Park system. Our Forbury Park system of organic matter from overgrowth of aquatic plants, algae and bacteria, due to nutrient pollution from fertilizers, pet waste, and stormwater runoff. It is critical to maintain these assets to meet the City of Florida and Forbury Park documents to meet strict environmental and safety standards.

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Let's pause for a moment and talk about the key objectives of the project.

- Flood Control – Our ponds are part of a chain of ponds that drain the surrounding watershed, and our canal connects our ponds to the Forbury Park system. Our Forbury Park system of organic matter from overgrowth of aquatic plants, algae and bacteria, due to nutrient pollution from fertilizers, pet waste, and stormwater runoff. It is critical to maintain these assets to meet the City of Florida and Forbury Park documents to meet strict environmental and safety standards.
- Improve Water Quality by reducing algae blooms and restoring marine habitats.
- Meet the conditions that enable Forbury Park to:
  - Increase Amount of Water Irrigation
  - Increase Amount of Water Recreation
  - Protect Water Habitat & the Security of Forbury Park

## Pond & Forbury Project

GHCA is presently in discussions with Forbury's engineers the GHCA to maintain the original function & conditions of all ponds and the transportation conveyance system, and the Forbury Park conveyance system. The GHCA community was originally built, Federal, State and County permits required the GHCA to meet the original function & conditions of all ponds and the transportation conveyance system. The GHCA community was built, Federal, State and County permits required the GHCA to meet the original function & conditions of all ponds and the transportation conveyance system. The GHCA community was built, Federal, State and County permits required the GHCA to meet the original function & conditions of all ponds and the transportation conveyance system.

Dredging both of these correctly and necessary to achieve compliance, provide water for Forbury Park, and provide a healthy GHCA pond. GHCA ponds provide and sustain the conveyance of our community.

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## The Plan

Phase 1 of the risks noted above the GHCA will be taking the following actions:

- Hydrinds & Hydrinds Pond
- Bank & Slope Stabilization and Stabilization
- Lateral Bulkhead Installation
- Aeroxon Invasive Plants
- Aeroxon Invasive Plants Maintenance

Planning for this project begin back in 2022 and work began with 2 test ponds in 2023. Given that we are in the 12-year project with 12 ponds and 12 years, we decided the team needed to "feel & learn" before we set out a plan for the entire project. Phase 1 of the risks noted above the GHCA will be taking the following actions:

1. Hydrinds & Hydrinds Pond
2. Bank & Slope Stabilization and Stabilization
3. Lateral Bulkhead Installation
4. Aeroxon Invasive Plants
5. Aeroxon Invasive Plants Maintenance

Phase 1 of the risks noted above the GHCA will be taking the following actions:

1. The initial treat acreage here and
2. The initial treat acreage here and
3. The initial treat acreage here
4. The initial treat acreage here

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| Phase 1 | Phase 2 | Phase 3 |
|---|---|---|
| Hydrinds | Hydrinds | Hydrinds |
| Bank & Slope Stabilization | Bank & Slope Stabilization | Bank & Slope Stabilization |
| Lateral Bulkhead Installation | Lateral Bulkhead Installation | Lateral Bulkhead Installation |
| Aeroxon Invasive Plants | Aeroxon Invasive Plants | Aeroxon Invasive Plants |
| Aeroxon Invasive Plants Maintenance | Aeroxon Invasive Plants Maintenance | Aeroxon Invasive Plants Maintenance |

Before

After

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3. The initial treat acreage here
4. The initial treat acreage here

After these tests were completed the team set out their plan for 2023. Remember that we only plan three months at a time. Our plan for 2023 was to remove the invasive plants disruptive during the ponds season when population is high and we want to keep our residents out of the ponds. We also wanted to remove the invasive plants in the ponds when population is low and we want to keep our residents out of the ponds. We also wanted to remove the invasive plants in the ponds when population is low and we want to keep our residents out of the ponds. We also wanted to remove the invasive plants in the ponds when population is low and we want to keep our residents out of the ponds.

| Pond | Description |
|---|---|
| Pond 1 | Pond 1 is a large pond with a fountain and a bridge. |
| Pond 2 | Pond 2 is a large pond with a fountain and a bridge. |
| Pond 3 | Pond 3 is a large pond with a fountain and a bridge. |
| Pond 4 | Pond 4 is a large pond with a fountain and a bridge. |

## Financial Impact & Mitigation

The benefits of the project have been outlined above, but a learning opinion is what will be the financial impact to our community. The Pond & Forbury project is a 12-year one outlined below and total ~$12.5M. Since $10 and $12 includes the testing and the 2 ponds, we have a total of $12.5M. Our Pond & Forbury project is a 12-year one outlined below and total ~$12.5M. Since $10 and $12 includes the testing and the 2 ponds, we have a total of $12.5M.

| Year | Pondx | Forbury | Pondxy | Forbury |
|---|---|---|---|---|
| 2023 | 1,000,000 | 500,000 | 1,000,000 | 500,000 |
| 2024 | 1,000,000 | 500,000 | 1,000,000 | 500,000 |
| 2025 | 1,000,000 | 500,000 | 1,000,000 | 500,000 |
|