

Lake Apopka Sump Dredging Project

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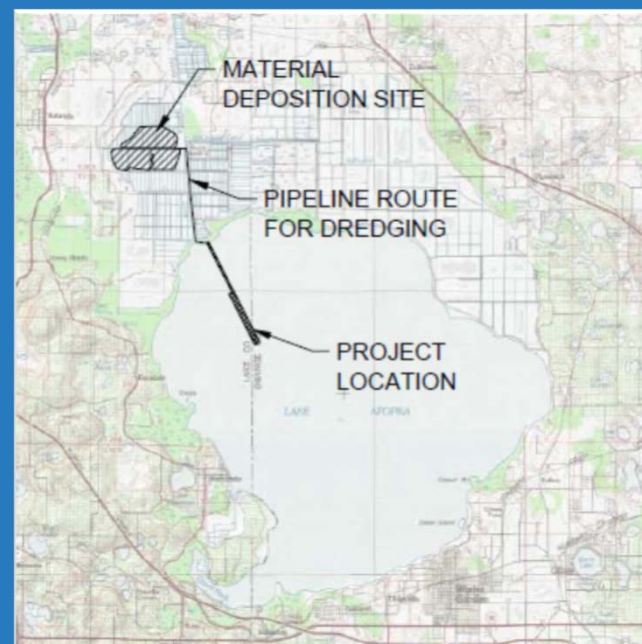
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Previously Presented Information

- **On October 6, 2017, District Staff presented to the Council about the status of several projects in the Lake Apopka area, including the Sump Dredging Project**
- **Council's 2017 Report expressed support of dredging in Lake Apopka to create areas for vegetation**

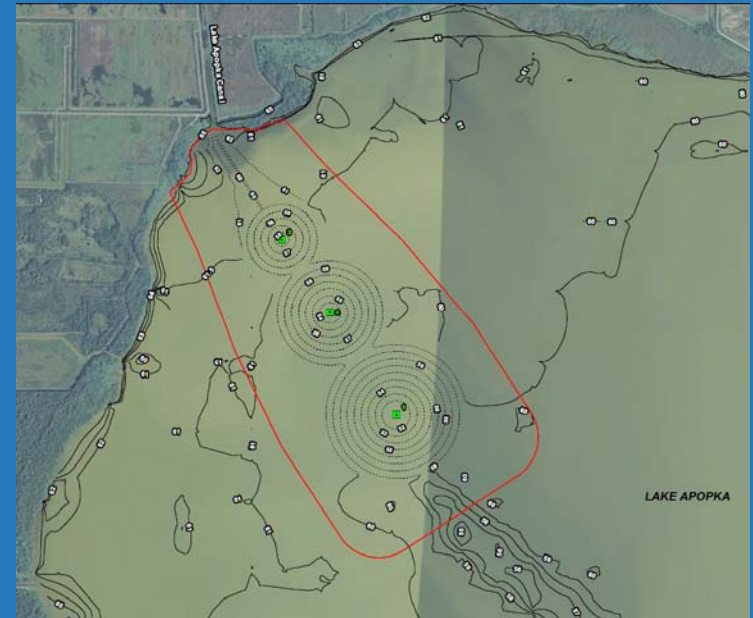
Overview

- Project Description
- Project Status and Schedule
- Funding
- Monitoring



Project Description

- **Goals**
 - Test concept of using sump to capture mobile surficial sediments
 - Remove accumulated phosphorus from the lake and increase water clarity by removing captured sediments
- **Initial Dredging includes:**
 - Sump to collect unconsolidated flocculent sediments (UCF)
 - Connection between the sump and the mouth of the Apopka-Beauclair (AB) Canal



What is Unconsolidated Flocculent Sediment (UCF)?

- Sediment that is easily resuspended into the water column
- Impedes light availability for aquatic resources and reduces the expansion of submerged aquatic vegetation (SAV), which provides critical fisheries habitat
- Increases nutrients in the water column when resuspended



Project Description (continued)

- Sump will collect UCF for future removal
- Initial dredged material is placed in Cells F and G
- Removes P and turbidity
- Helps protect downstream water quality
- Navigation dredging between sump and mouth of AB Canal will improve access to lake



Project Status and Schedule

- **Sump:**

- Dredging started December 2017 and is expected to be finished November 2018
- Currently about 50% complete



- **Navigation dredging:**

- Dredging is expected to begin after the sump is complete
- Currently the permit modification application is being prepared

Funding

- **FWC revenue agreement currently expires in January 2019**
 - **Expected to complete the sump dredging and the navigation dredging by the end of 2018**



Monitoring Progress

- **Tracking the progress of the sump construction**
 - Pre-dredging survey was conducted
 - Monthly soundings to observe construction progress
 - Post-dredging survey and sampling one to three months after sump completion to document UCF accumulation



Thank You



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