

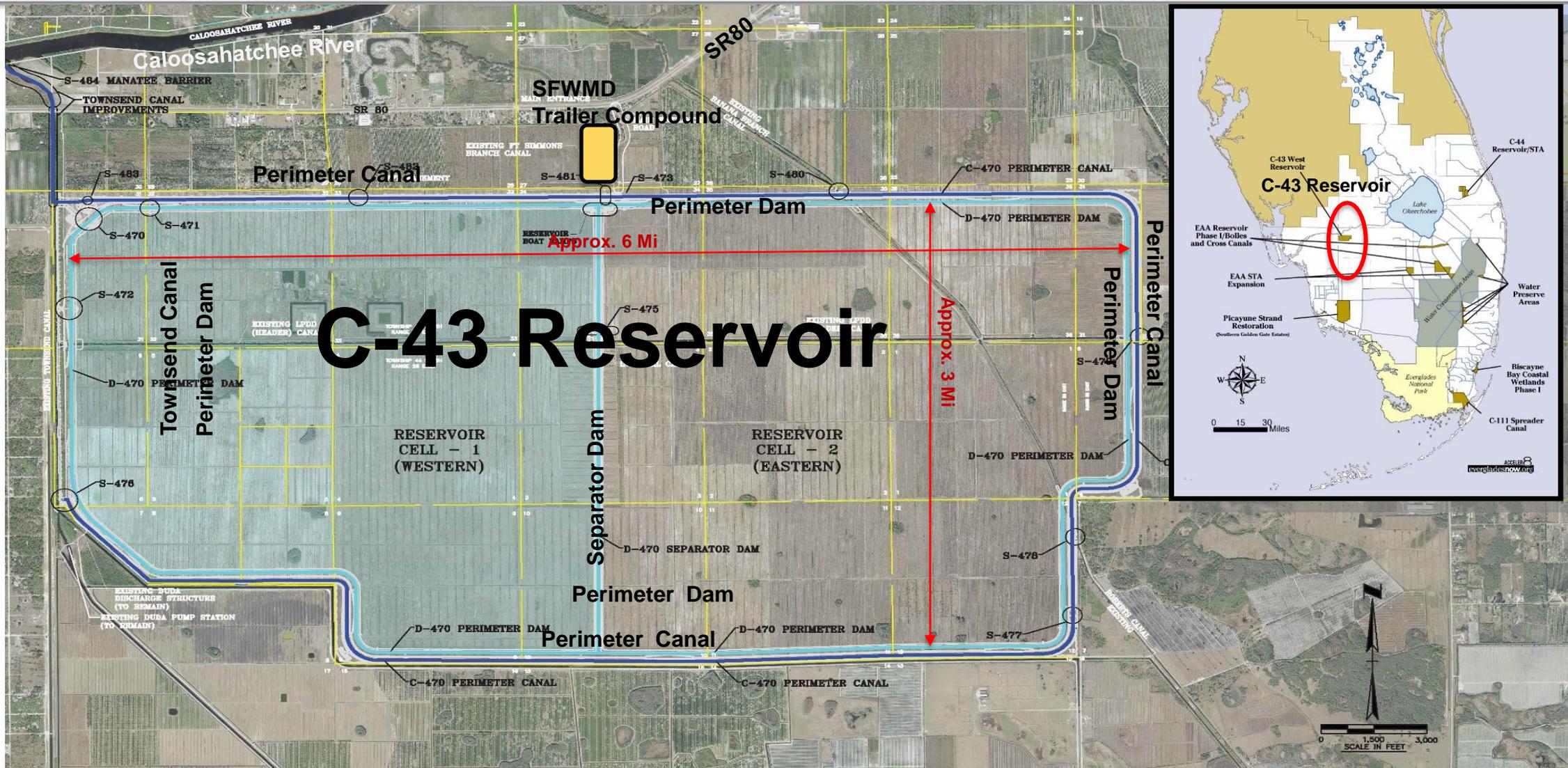


Caloosahatchee Projects Tour

South Florida Water Management District



C-43 Reservoir - Project Location





C-43 Reservoir Project Purpose

- **Capture excess basin runoff and Lake Okeechobee releases;**
- **Improve timing and quantity of freshwater flows to the Caloosahatchee Estuary, to help maintain proper salinity levels; and**
- **Maintain allocated water supply to the local agricultural areas adjacent to the reservoir.**



C-43 Reservoir Project Components

- **10,500 Acres (2 Cells)**
- **19[±] Miles of Dam Embankment**
- **15[±] Miles of Perimeter Canal**
- **14 Major Water Control Structures**
- **2 Pump Stations**
- **Recreation Features**
- **51[±] Acres of Littoral Zones**
- **Townsend Canal Improvements**



C-43 Reservoir – Recreational Benefits

- **12 miles of multiple trails for walking, bicycling, equestrian**
- **Two public parking areas**
- **Equestrian Area (parking, paddock, wash)**
- **Boat Launch Area**
- **Canoe/Kayak Launch Area**
- **Fishing: Boat and Bank**
- **Information Kiosks**
- **Restrooms**

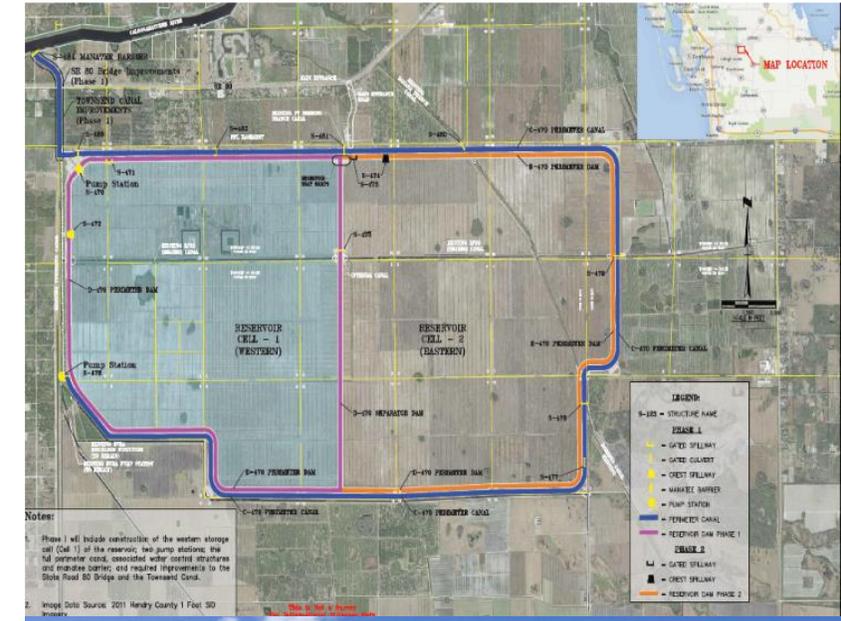


Caloosahatchee River (C-43) West Basin Storage Reservoir

170,000 acre-foot reservoir to improve the timing, quantity and quality of freshwater flows to the Caloosahatchee River and Estuary

- State began construction in 2015
 - Package 1: Preload & Demolition; completed (\$11m)
 - Package 2: Construction of S-476 (195 cfs) Pump Station; complete (\$13m)
 - Package 3: S-470 Pump Station (1500 cfs); completion in spring 2022 (\$58.5m)
 - Package 4: Civil Works (Dam); construction contract awarded April 2019 (\$524m)

- Scheduled for substantial completion in 2023





Package 1 – Preload & Demolition

Typical Pre-Load Mound



S-474 Preload Mound Looking West



Package 2 – Irrigation PS S-476



12/31/18



Package 3 – Inflow Pump Station S-470



S-471
Preload Mound

Preload Mound
Stockpile Area

General Site
Stockpile Area

Dewatering
Settling Pond

Embankment
Preload Mound

S-470 Excavation
Stockpile Area

Contractor's
Compound

Townsend Canal



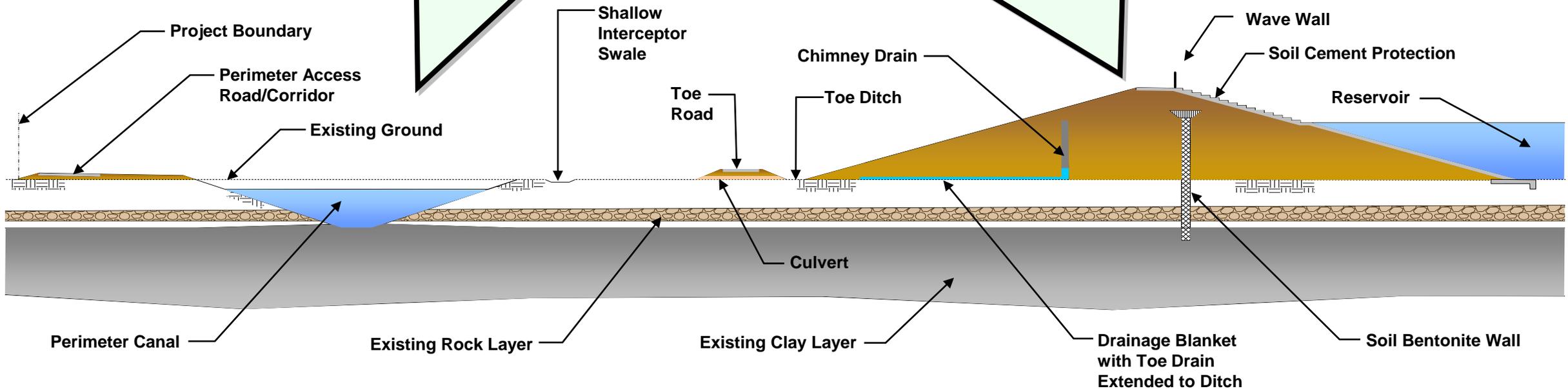
Package 4 - Dam and Canal Typical Sections

Perimeter Canal

- Approximate 110' top width
- Varying bottom width
- Varying bottom elevation
- Length: 15+/- Miles
- Excavation Volume: 3+M CY

Earth Dam

- Dam Height: 27 - 38 Feet
- Length: 16+/- Miles (Excludes Separator Dam)
- Crest Width: 14+ feet
- Water Depth: 15 - 25 Feet
- Embankment Volume: 16+M CY
- Soil-Bentonite Wall: 4+M SF
- Grassing: 600 +/- AC
- Soil Cement: 980K CY





C-43 Reservoir Water Quality Component Study

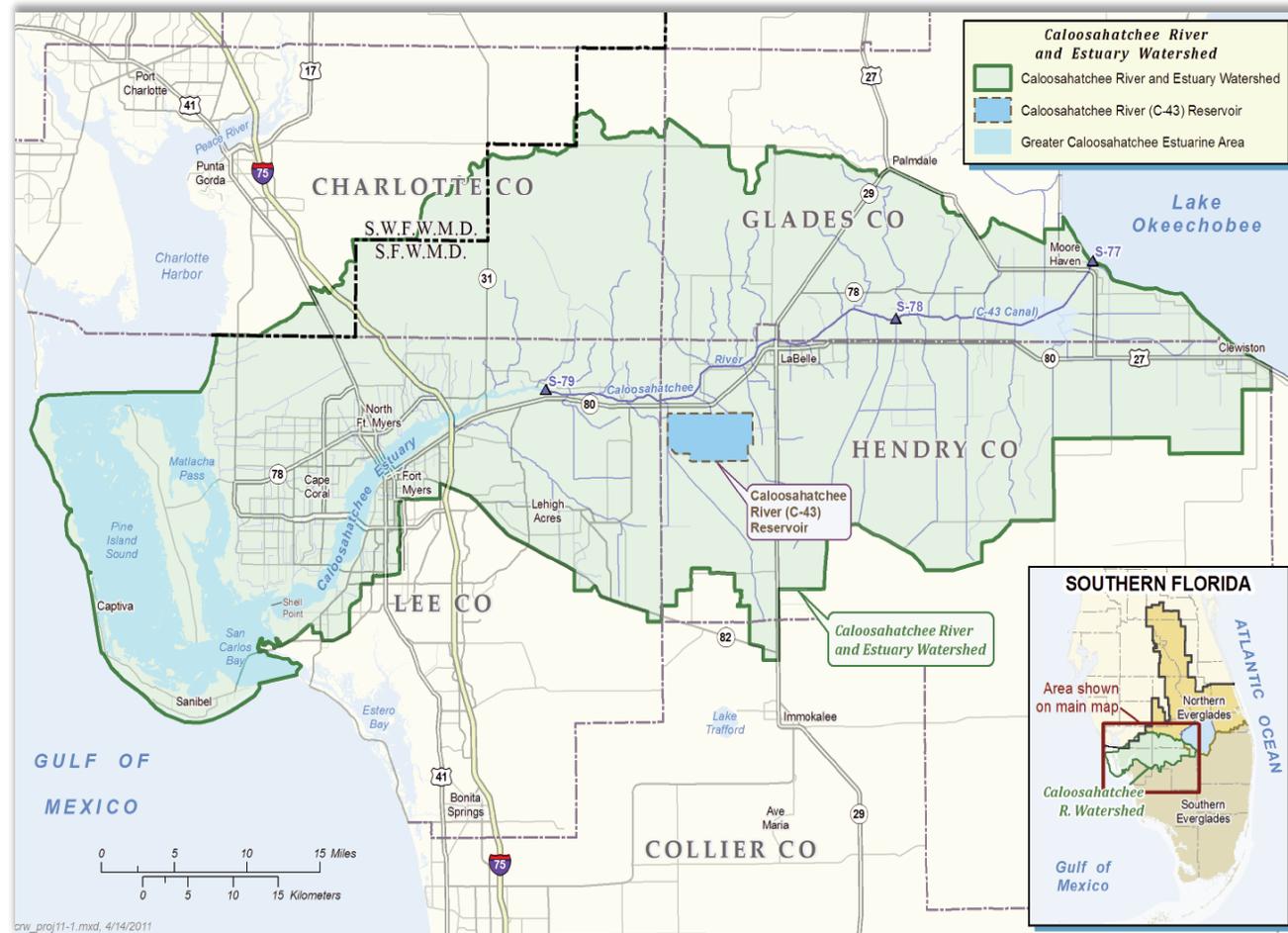
Feasibility study completed December 2020.

- Alum treatment – both as an offline treatment facility and online, in-reservoir treatment system
- 1,000-ac treatment wetland with parallel 104-ac Bold & Gold® treatment
- 668-ac HWTT
- 200-ac sand filter with parallel 104-ac Bold & Gold® treatment

Evaluation of recommendations underway at Boma.

Siting evaluation study currently underway. Includes Sand Filter evaluation. Will be completed September 2021.

Design and permitting underway for Alum injection into Reservoir. Design of remaining components to follow.





C-43 Water Quality Treatment and Testing Facility (aka Boma)

Multi-phased project to test and implement wetland-based strategies to remove dissolved organic nitrogen from the Caloosahatchee watershed

- Phase I Mesocosm Study: Completed
- Phase II Test Cell: Design underway
- Flow Equalization Basin: Design underway. Will provide 6,583 acre-feet of storage
- Interim Storage: Operational. 1,500 acre-feet of storage

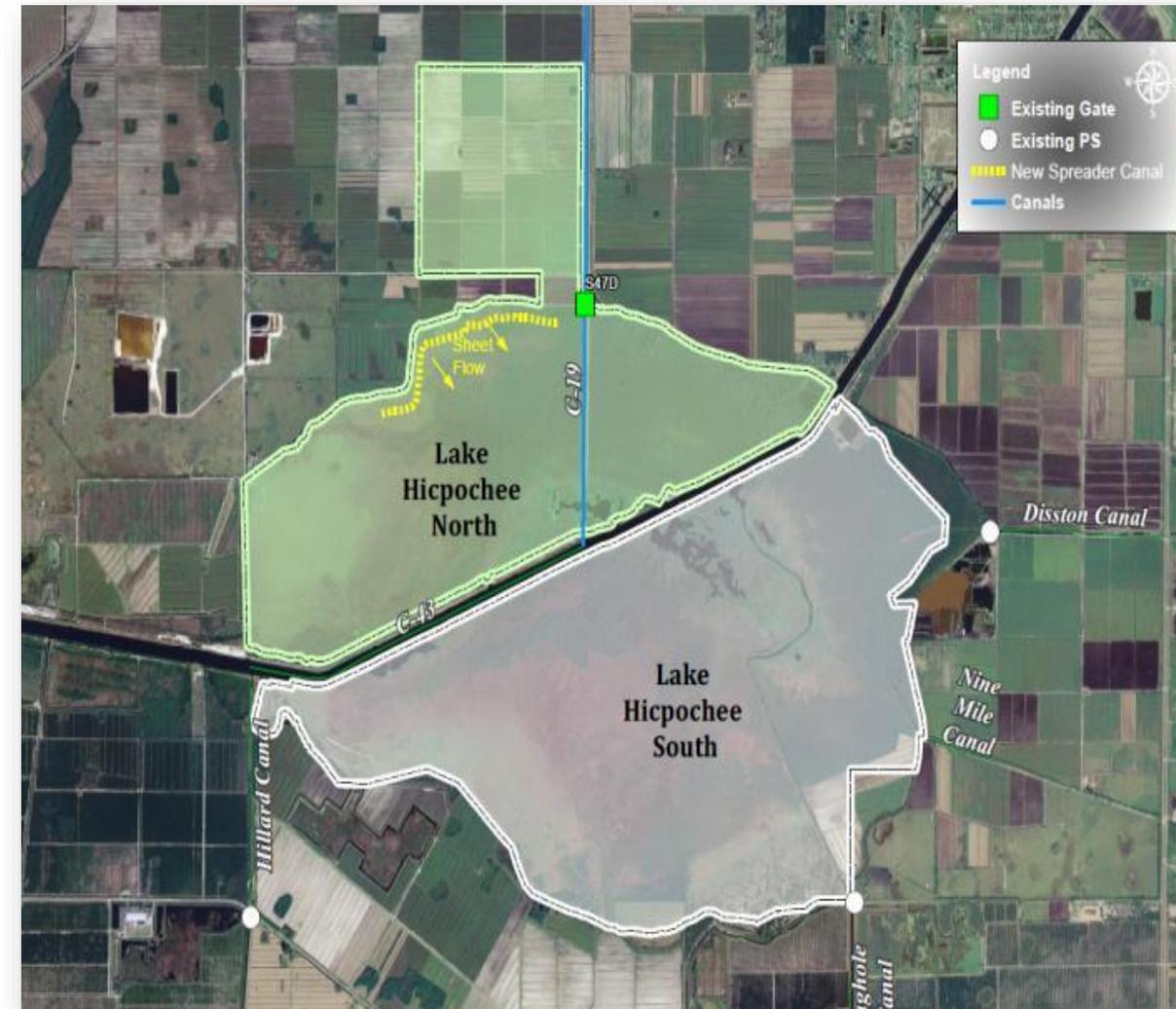




Lake Hicpochee Hydrologic Enhancement Project

Shallow water storage and hydrologic enhancement of northwest portions of headwaters of Caloosahatchee River

- 670 acre shallow storage
- First phase provides 1,279 acre-feet of storage
- Construction complete, operational
- Acquisition of 2,510 acres complete





Lake Hicpochee Hydrologic Enhancement Project Expansion

Expand existing project to provide additional water storage to benefit Caloosahatchee River and Estuary

- Acquisition of 2,510 acres
- 9,000 acre-feet of additional storage
- Will provide additional storage, enhance ecological function, and aid in reducing nutrient loading into Caloosahatchee River
- Design completion December 2022

