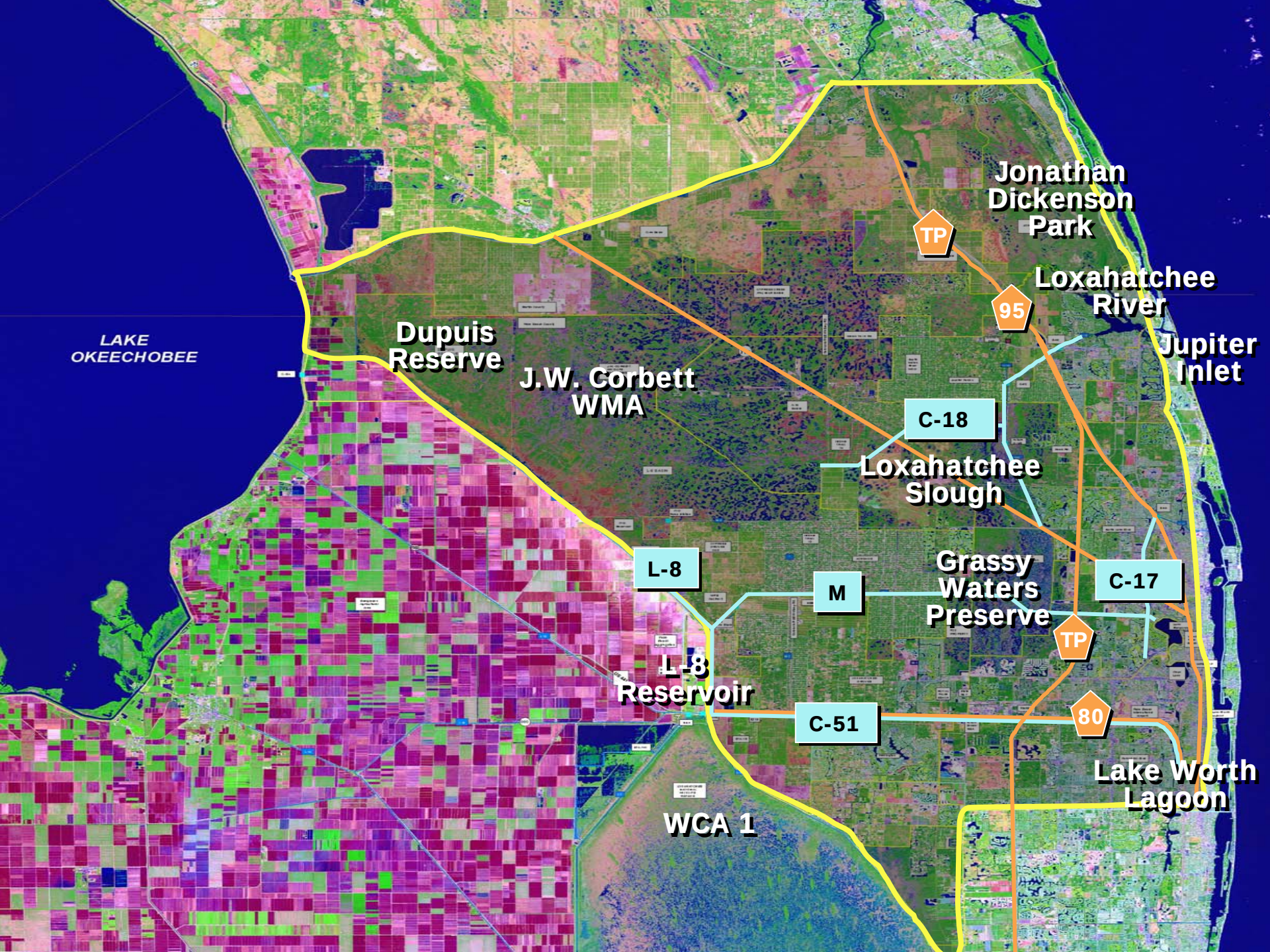
# Comprehensive Everglades Restoration Plan

## North Palm Beach County-Part I

SFWMD Project Manager: Beth Kacvinsky

USACE Project Manager: Tim Brown


LAKE OKEECHOBEE
Dupuis Reserve
J.W. Corbett WMA
Jonathan Dickenson Park
TP
95
Loxahatchee River
Jupiter Inlet
C-18
Loxahatchee Slough
L-8
M
Grassy Waters Preserve
C-17
TP
L-8 Reservoir
C-51
80
Lake Worth Lagoon
WCA 1

# *Project Goals and Objectives*

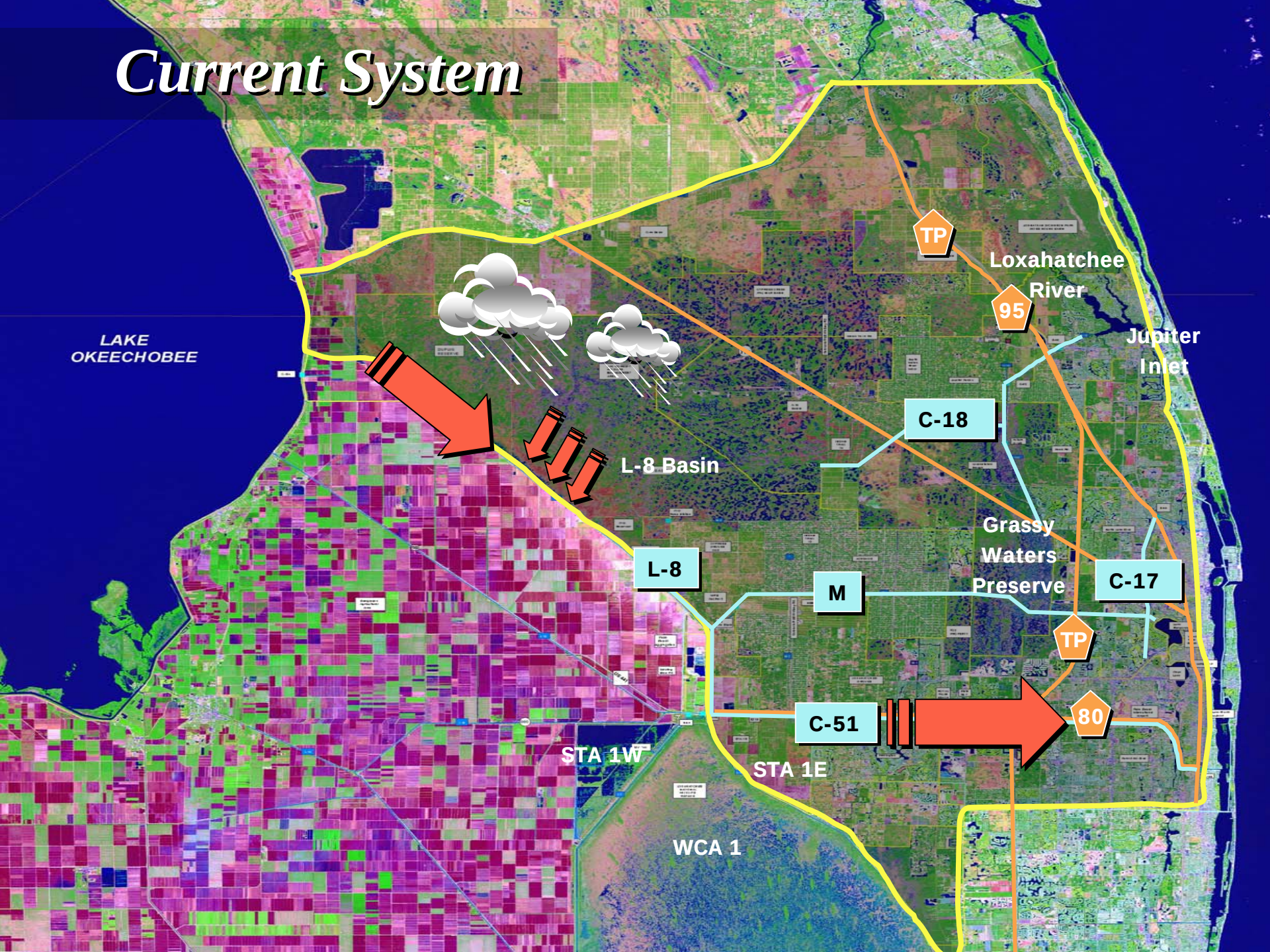
- Capture and store/treat excess water currently discharged to the Lake Worth Lagoon
- Use these waters for environmental enhancement of:
  - Loxahatchee River
  - Loxahatchee Slough
  - Grassy Waters Preserve

# *Project Goals and Objectives*

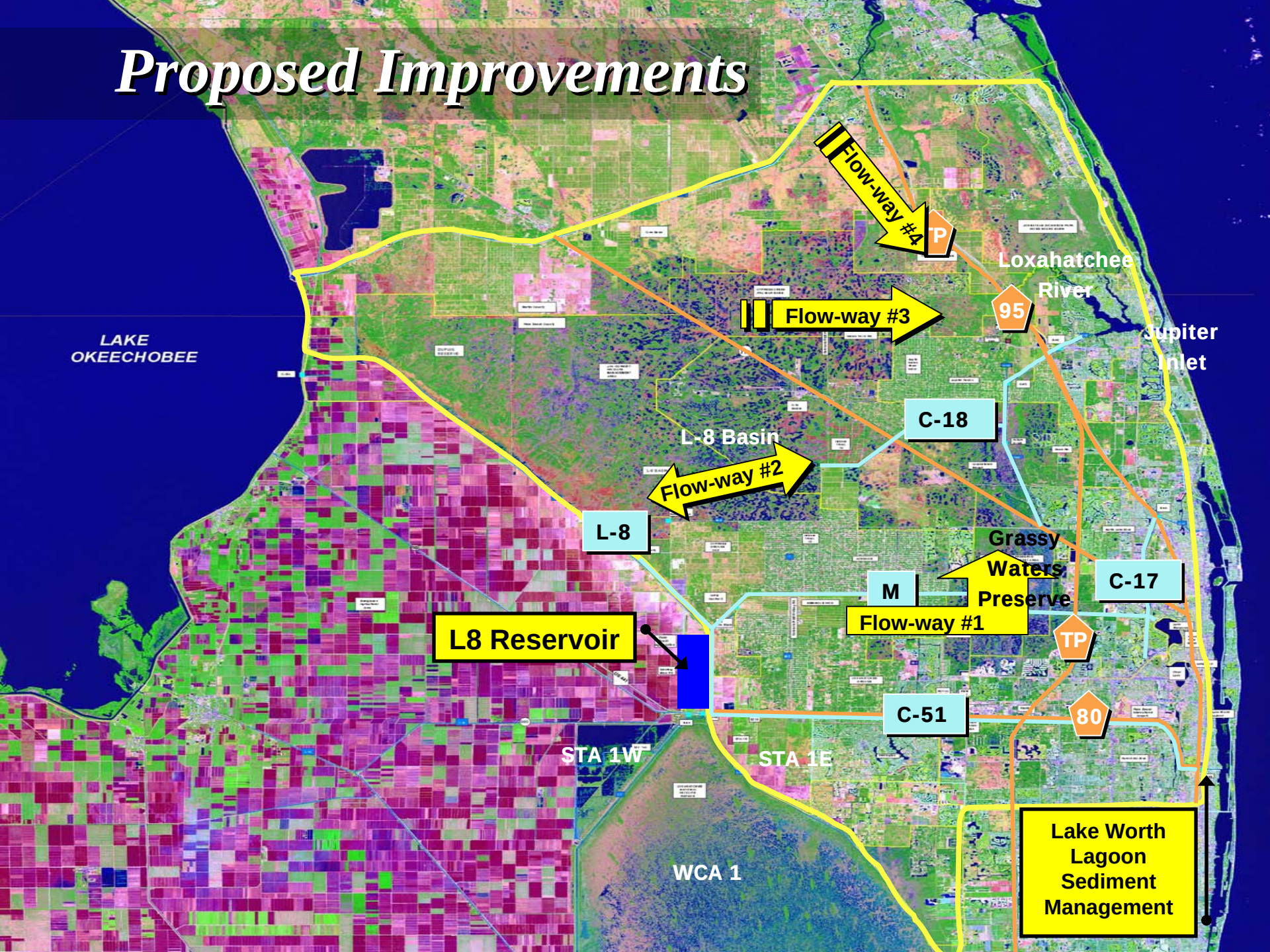
- **Improve hydrologic connections between protected natural areas**

- **Improve the Quality, Quantity, Timing and Distribution of water delivery to the Loxahatchee River and Estuary**

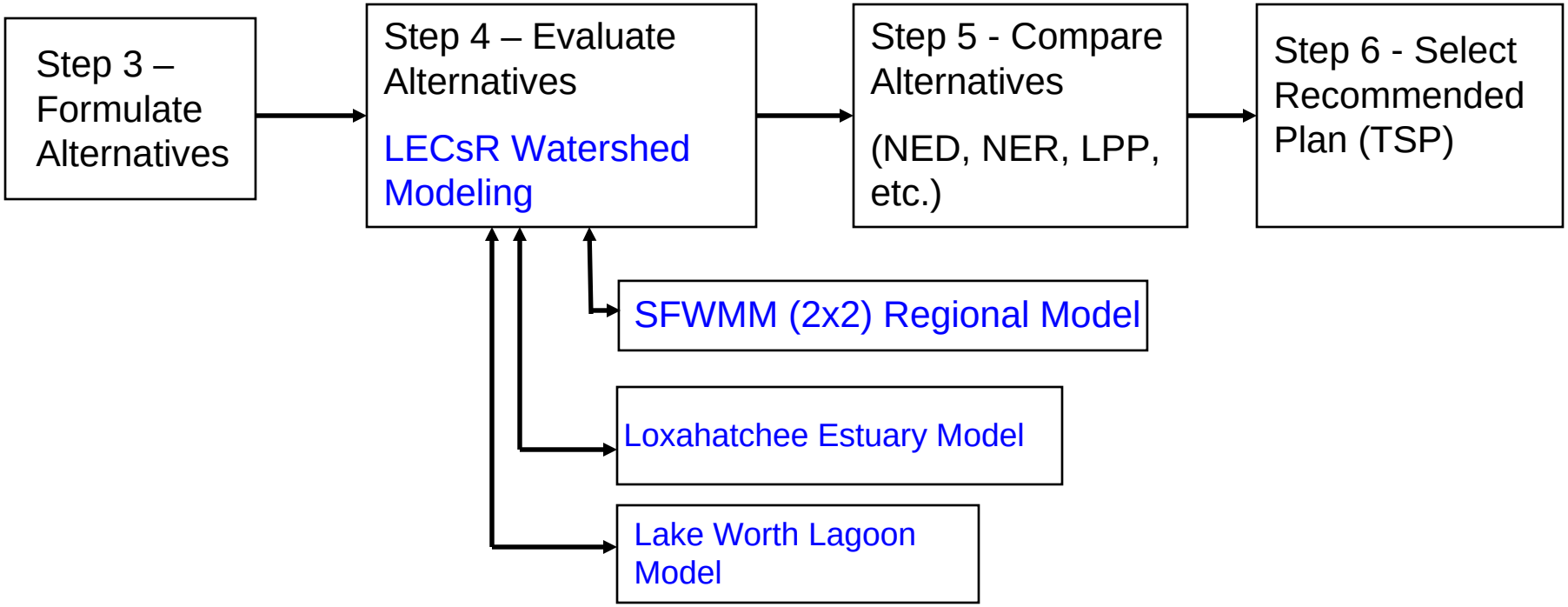
# Current System



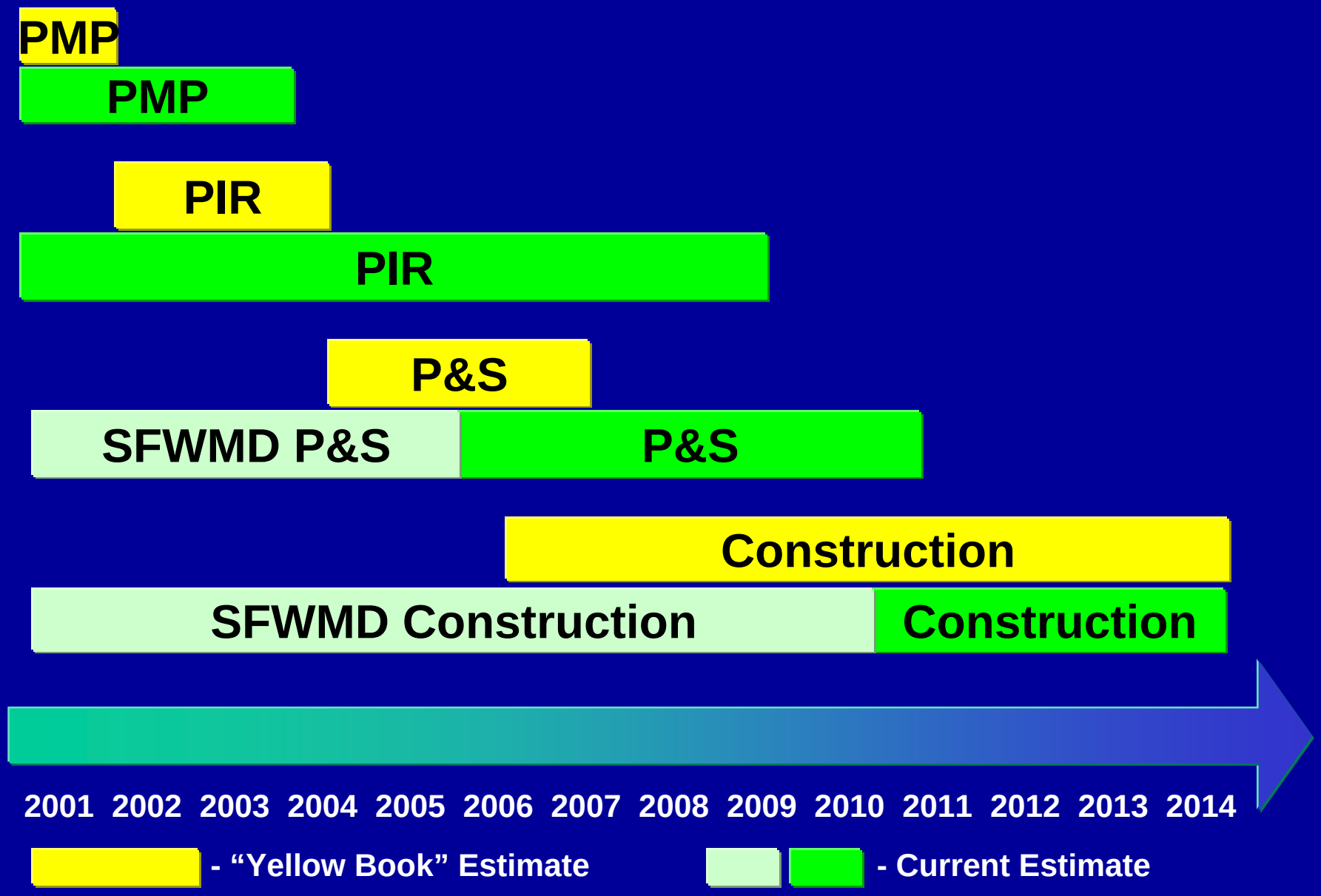
# Proposed Improvements



# Modeling Plan



# CERP – NPBC Part 1 - Estimated Schedule



# *Flowway 1 Test*

**OBJECTIVES**

**Determine how well existing infrastructure can provide water to NW Fork Loxahatchee River**

- **Measure flows and stage levels**
- **Determine losses through the system**

**help identify issues for resolution for Flowway 1**

# *Flowway 1 Test - Components*

L-8 Reservoir Pump Station
Control 2 Pump Station
M-Canal
GWP Perimeter Canal
G-161 Water Control Structure
BeeLine Culvert
G-160 Water Control Structure
G-92 Water Control Structure
Lainhart Dam

# L-8 Existing 75 cfs Pilot Pump

# *Additional Pump Capacity*

- For drought management
- For environment + West Palm Beach
- Permitted for 150 cfs
- For rental, installation, and operation of an additional 75 cfs pump

- Low bid: MWI
- Contract NTP: Imminent
- Operation 45 days after NTP

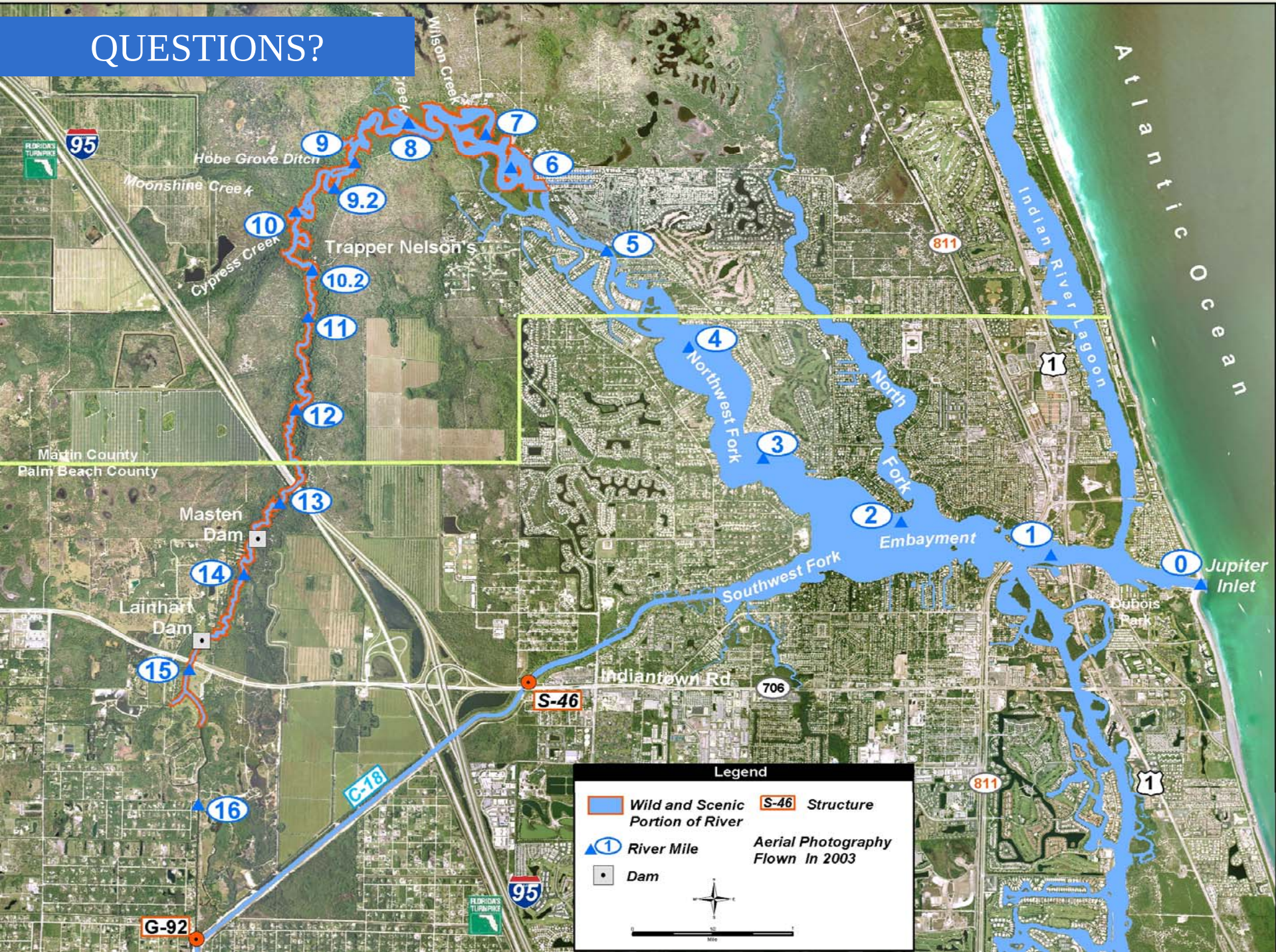
# *Progress*

- Beeline Culvert inspection completed - SFWMD and FDOT
- Developed interim operations plan for G-161
- Verified operable conditions of structures on Flowway-1 - Control 2, Control 3, Control 4, L-8 Reservoir pump, and G-161
- Stream gauging and water quality monitoring plan developed for the test.

# *Next Steps*

- Schedule Test
- Complete Flow Monitoring
- Complete Water Quality Monitoring
- Analyze Results

# QUESTIONS?


Wilson Creek
Hobe Grove Ditch
Moonshine Creek
Cypress Creek
Trapper Nelson's
Martin County
Palm Beach County
Masten Dam
Lainhart Dam
Northwest Fork
North Fork
Southwest Fork
Embayment
Indian River Lagoon
Atlantic Ocean
Jupiter Inlet
Dubois Park
Indiantown Rd
S-46
G-92
C-18
95
811
706
1
0
2
3
4
5
6
7
8
9
9.2
10
10.2
11
12
13
14
15
16
Legend
Wild and Scenic Portion of River
S-46 Structure
River Mile
Aerial Photography Flown In 2003
Dam