



# North Palm Beach County – Part 1

## Comprehensive Everglades Restoration Plan

SFWMD Governing Board  
December 13, 2007

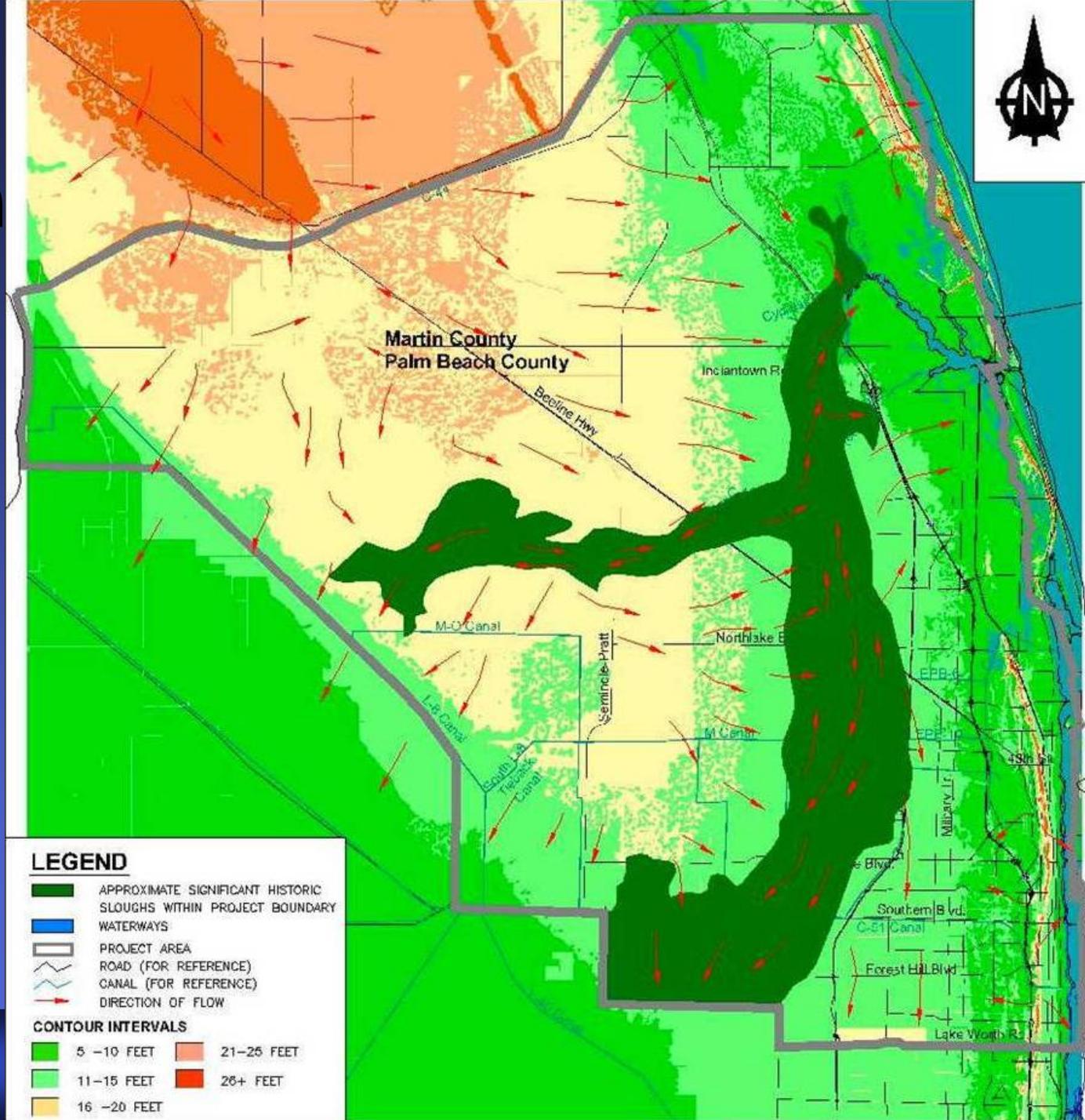
[sfwmd.gov](http://sfwmd.gov)

# Project Goals and Objectives

- Capture and store/treat excess water currently discharged to Lake Worth Lagoon
- Use this water for environmental enhancement of the Grassy Waters Preserve, Loxahatchee Slough and the Northwest Fork of the Loxahatchee River
- Improve hydrologic connections between protected natural areas
- Improve quality, quantity, timing and distribution of water delivered to the Loxahatchee River and Estuary



# Historic Condition



# Existing Conditions

Dry Season: high demand for water from Lake

Limited Connections and Storage to capture and move water to meet needs

Wet Season: high discharge to tide



# Proposed Improvements

LAKE OKEECHOBEE

Loxahatchee River

Jupiter Inlet

Flow-way #3

Flow-way #2

Flow-way #1

L-8

L-8 Basin

C-18

Grassy Waters Preserve

C-17

L8 Reservoir

M

C-51

STA 1W

STA 1E

WCA 1

Lake Worth Lagoon Sediment Management

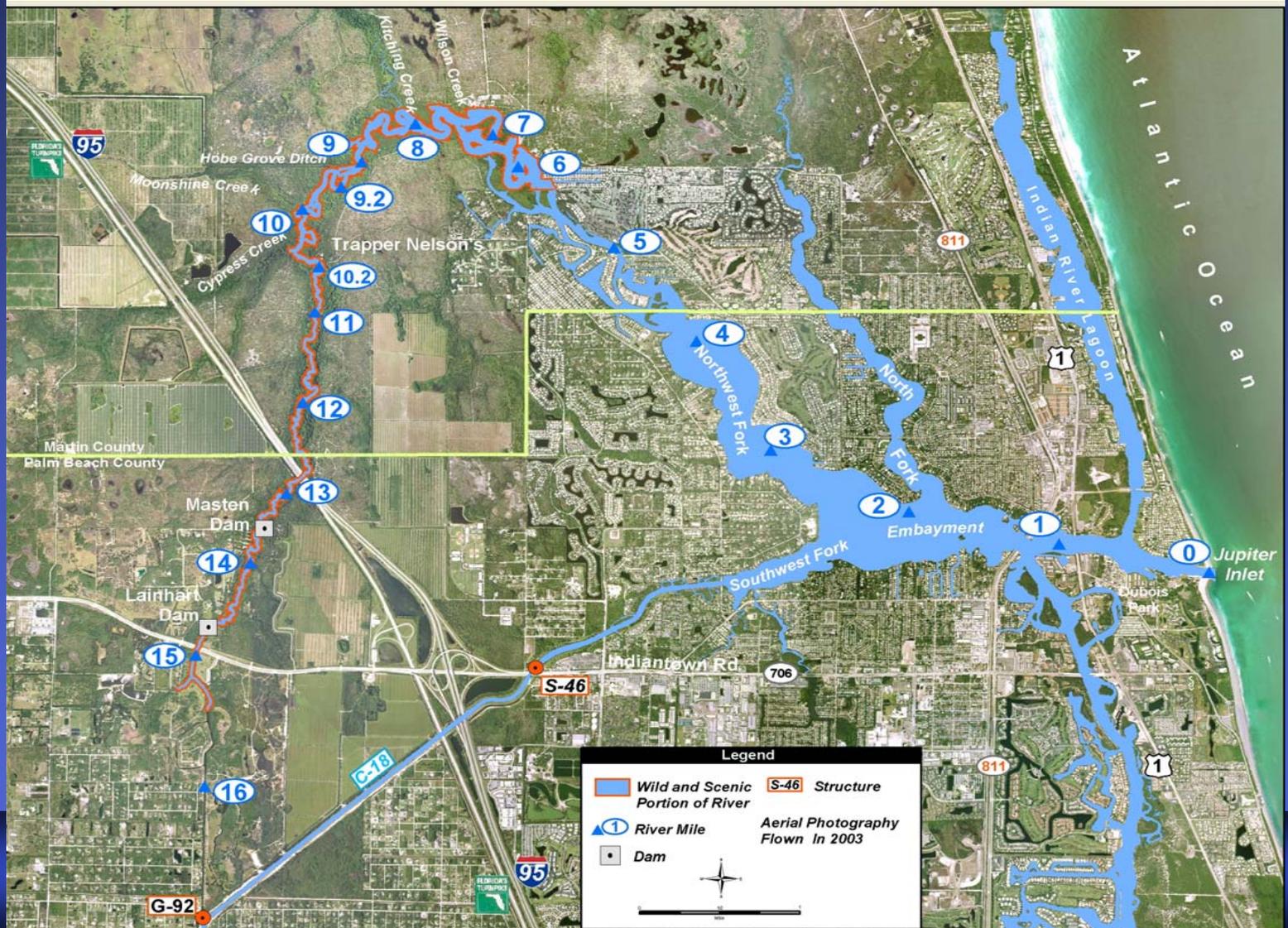
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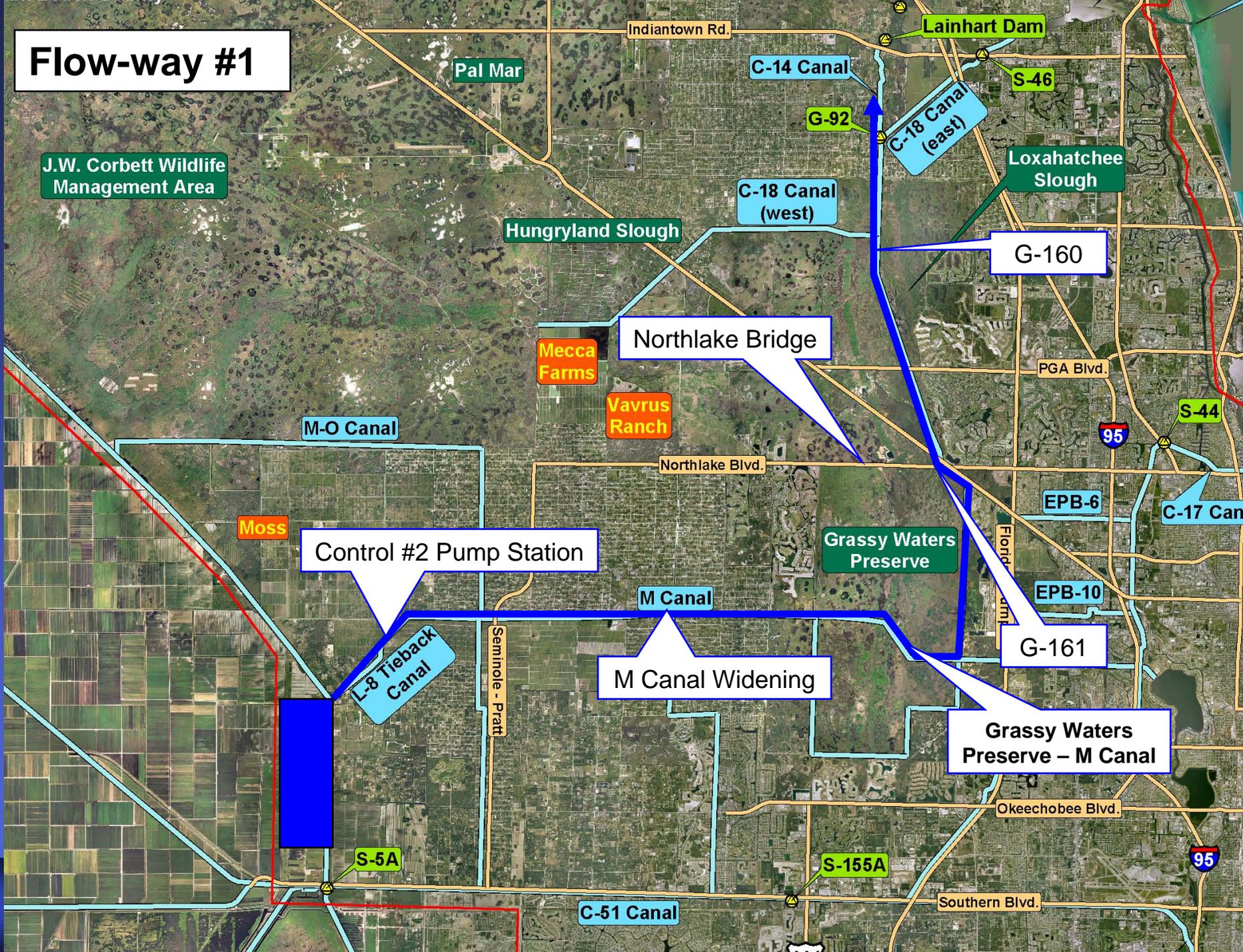
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# Flow-way 1 & 2 - Restoration Targets for Northwest Fork of Loxahatchee River



# Flow-way #1



# L-8 Reservoir – August 2007



# Control #2 Pump Station



# M-Canal Widening

Improved Section

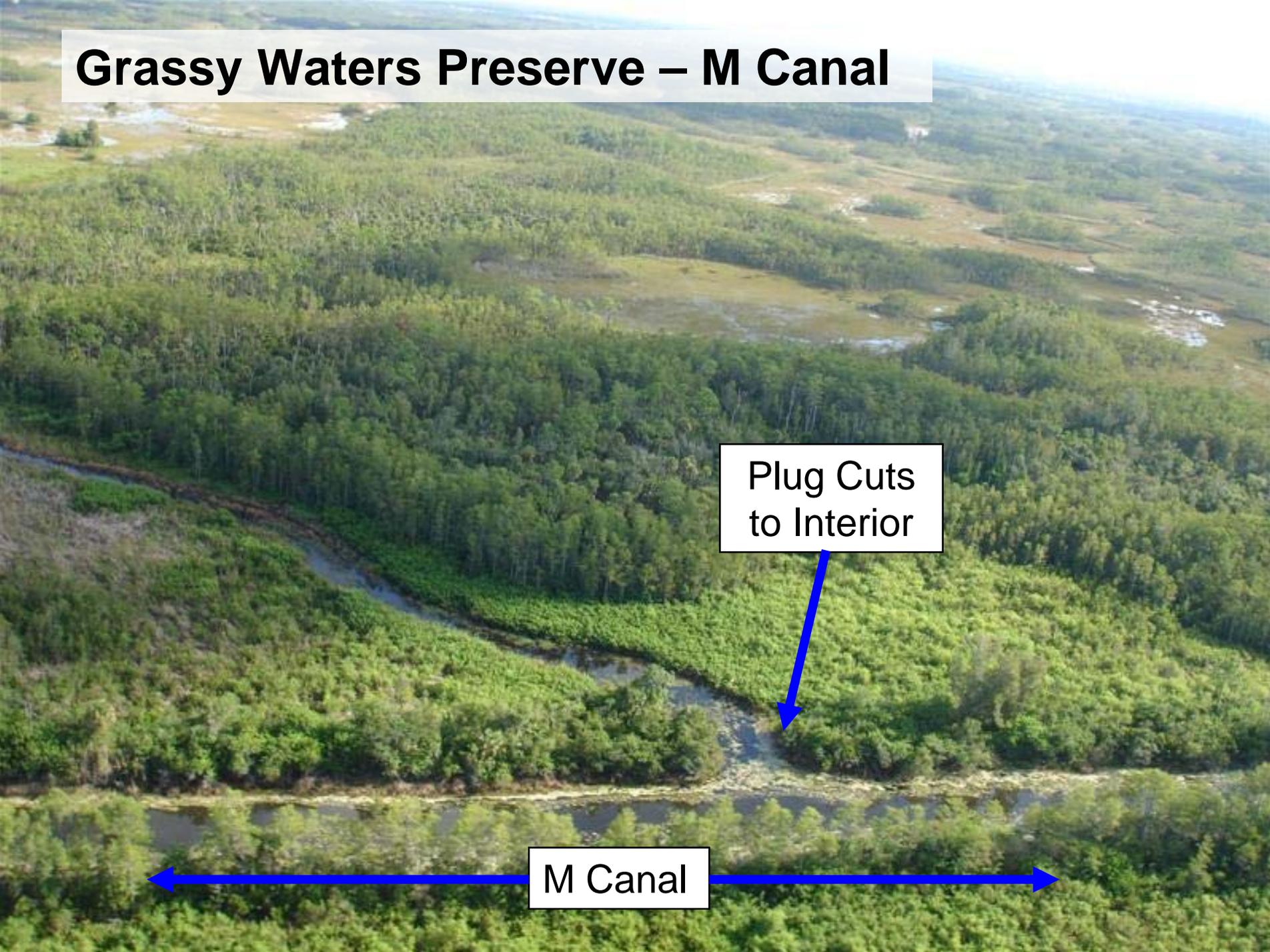
Unimproved Section



# Grassy Waters Preserve – M Canal

Plug Cuts  
to Interior

M Canal



# G-161 Northlake Boulevard Structure



# Northlake Bridge Proposed Location

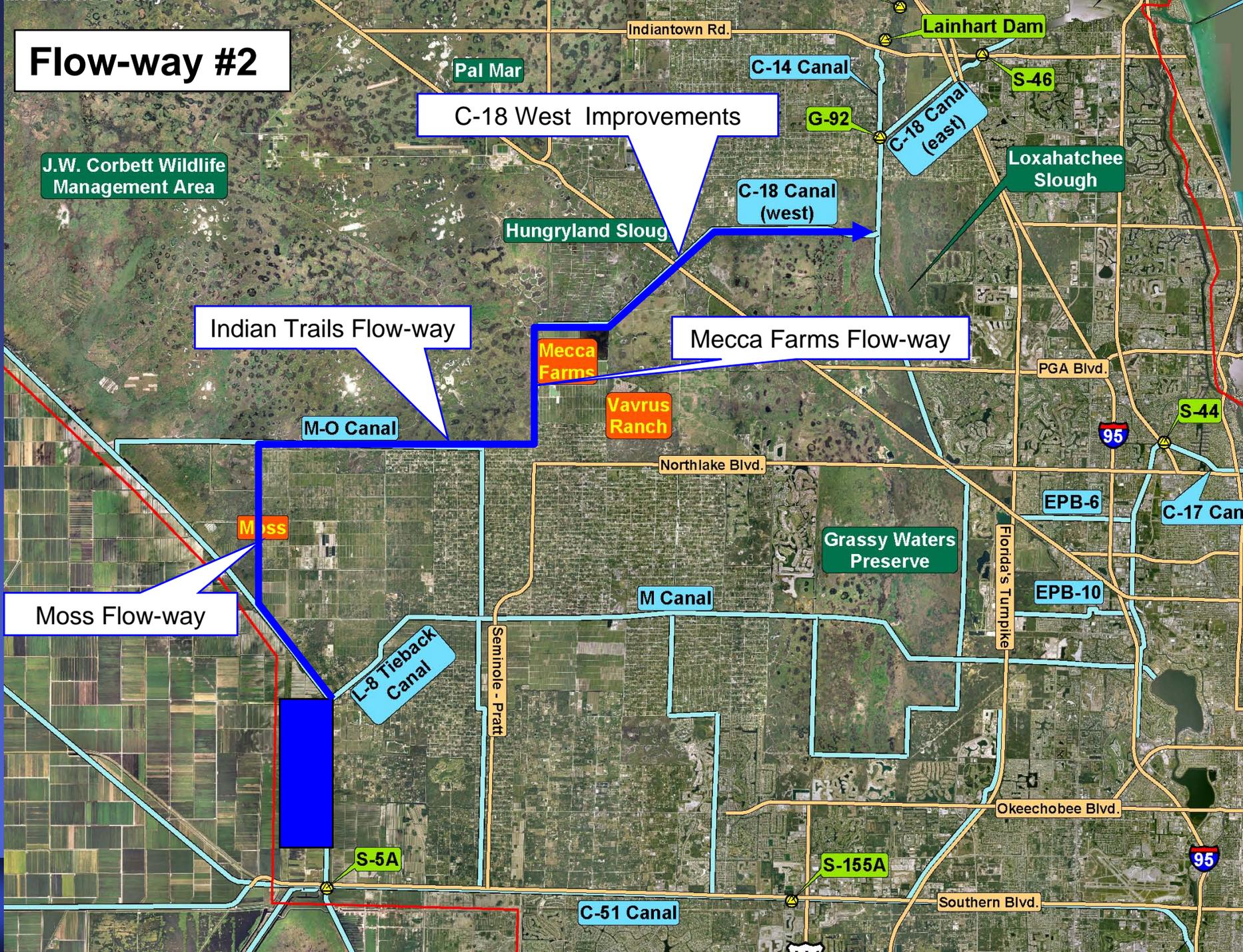


Potential weir  
location

# G-160 Loxahatchee Slough Structure



# Flow-way #2



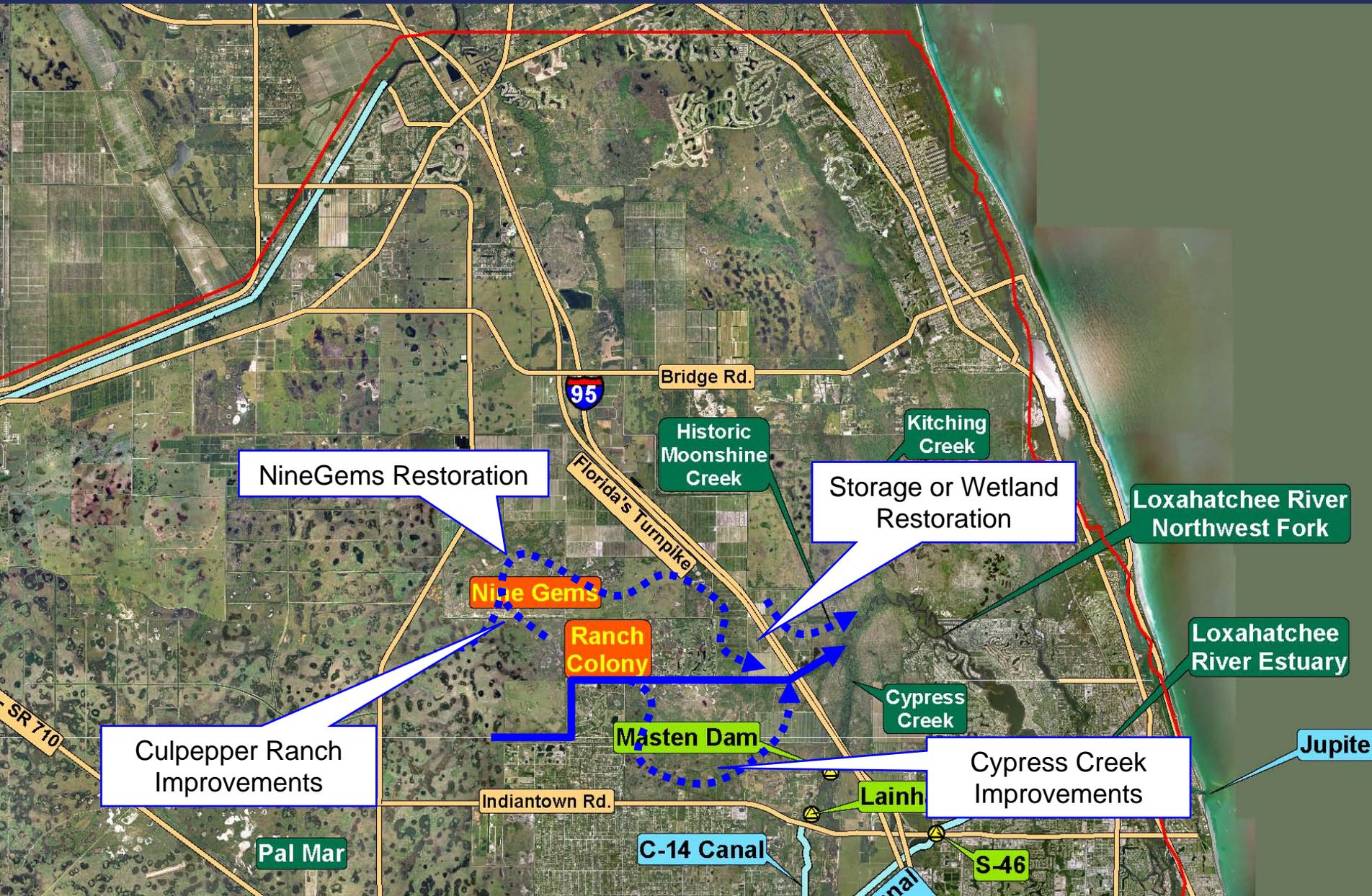
# Indian Trail Improvement District – MO Canal



# Canal C-18 West - Improvements



# Flow-way #3



NineGems Restoration

Pal Mar

Culpepper Ranch Improvements

Bridge Rd.

95

Historic Moonshine Creek

Florida's Turnpike

Kitching Creek

Storage or Wetland Restoration

Loxahatchee River Northwest Fork

Nine Gems

Ranch Colony

Cypress Creek

Loxahatchee River Estuary

Masten Dam

Indiantown Rd.

Lainh

Cypress Creek Improvements

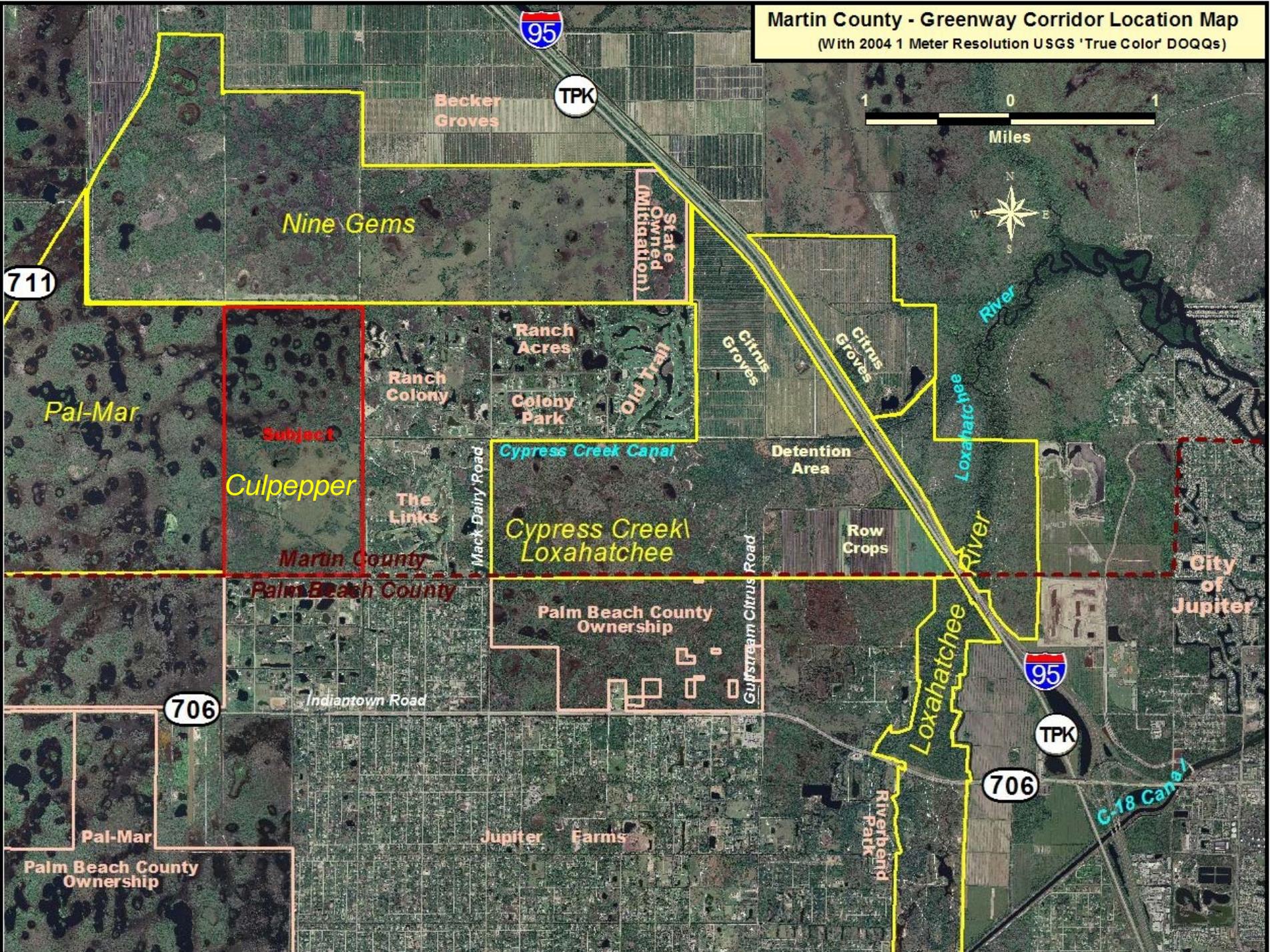
Jupiter

C-14 Canal

S-46

SR 710

**Martin County - Greenway Corridor Location Map**  
(With 2004 1 Meter Resolution USGS 'True Color' DOQQs)



# Land & Reservoir Costs

L-8 Reservoir to date	\$ 177,362,055
L-8 Reservoir final	<u>\$ 46,273,757</u>
Total L-8 Reservoir	\$ 223,635,812

Nine Gems	\$ 32,249,054
Culpepper Ranch	\$ 37,836,995
Gentle Ben Flowage Easement	\$ 20,000,000
Loxahatchee Slough – 257 acres	<u>\$ 18,540,000</u>
Total Land	\$ 108,626,049

**Total: \$ 332,261,861**



# 2008 Project Milestones\*

- Complete L-8 Reservoir temporary pump design
- Final payment to Palm Beach Aggregates
- Construct temporary pump facility
- Final payment for Culpepper Ranch

\*From 2008 Strategic Plan



# 2008 Funding

Final L-8 payment	\$ 46,273,757
Final Culpepper payment	\$ 12,612,331
PIR Support:	\$ 200,000
Permitting/Testing/Monitoring:	\$ 350,857
C-51 Sediment Removal (C-51):	\$ 500,000
Wetland Restoration (Palmar):	\$ 50,000
L-8 Reservoir Temporary Pump	\$ 1,000,000
Other	\$ 710,000



# Questions?



# **Project Implementation Report**

**Final Project Implementation Report Submittal -  
August 2009\***

**Primary Remaining Activities to complete PIR**

**Compare and Rank Alternatives**

**Benefits and Cost Analysis**

**Prepare Alternative Formulation Briefing  
Submittal**

**Conduct Alternative Formulation Briefing**

**Draft Project Implementation Report**

**\*Assumes SFWMD lead and available funding**

