

# CENTRAL EVERGLADES PLANNING PROJECT



*Restoring the Heart  
of the Everglades*

## Governing Board Update

PRESENTED BY

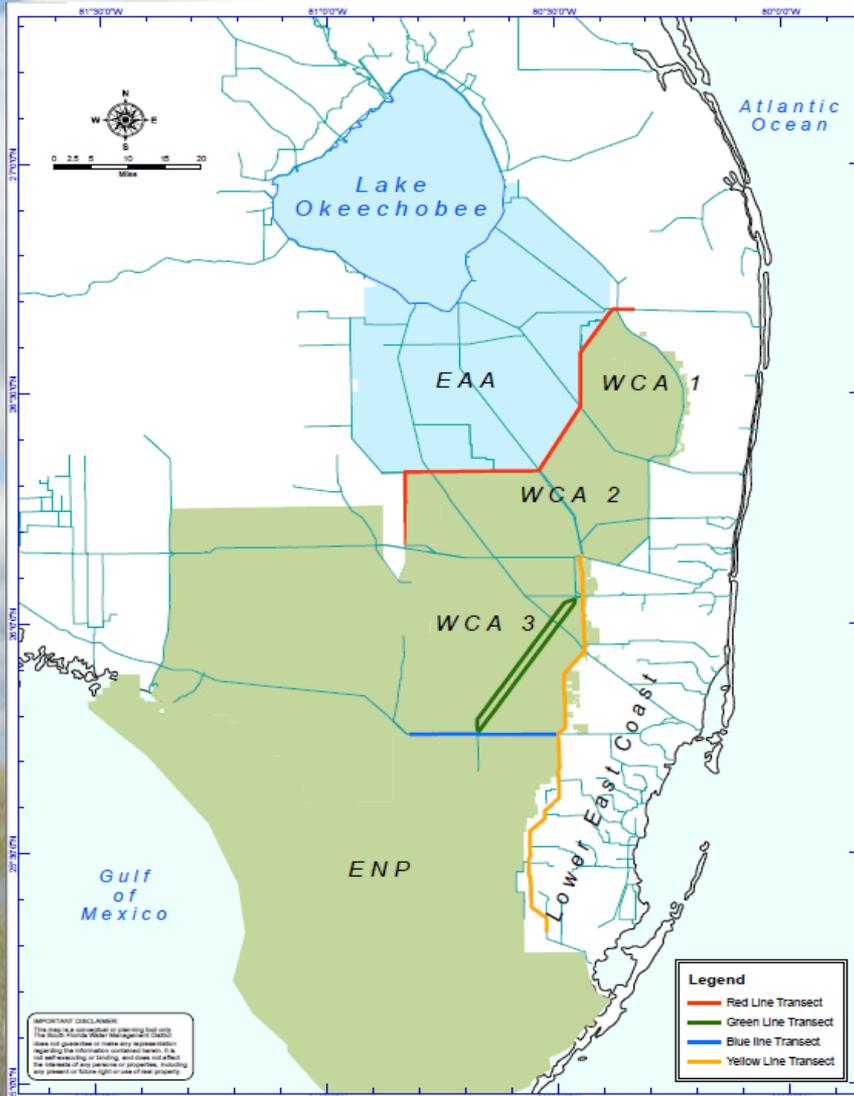
Tom Teets,  
Office of Everglades Policy and  
Coordination

August 9, 2012

# UPDATE OF CEPP ACTIVITIES

- July 31 PDT
  - ▶ North of the Redline (EAA Storage and Treatment):
    - Modeling results and conceptual design
  - ▶ Modeling updates for areas south of the Redline
  - ▶ WCA 3B hydrology discussion
    - Depth, duration and timing of water
  - ▶ Configuration exercise for conveyance features along L-67s, L-29, Tamiami Trail and for Seepage Management

# SPATIAL PERSPECTIVE



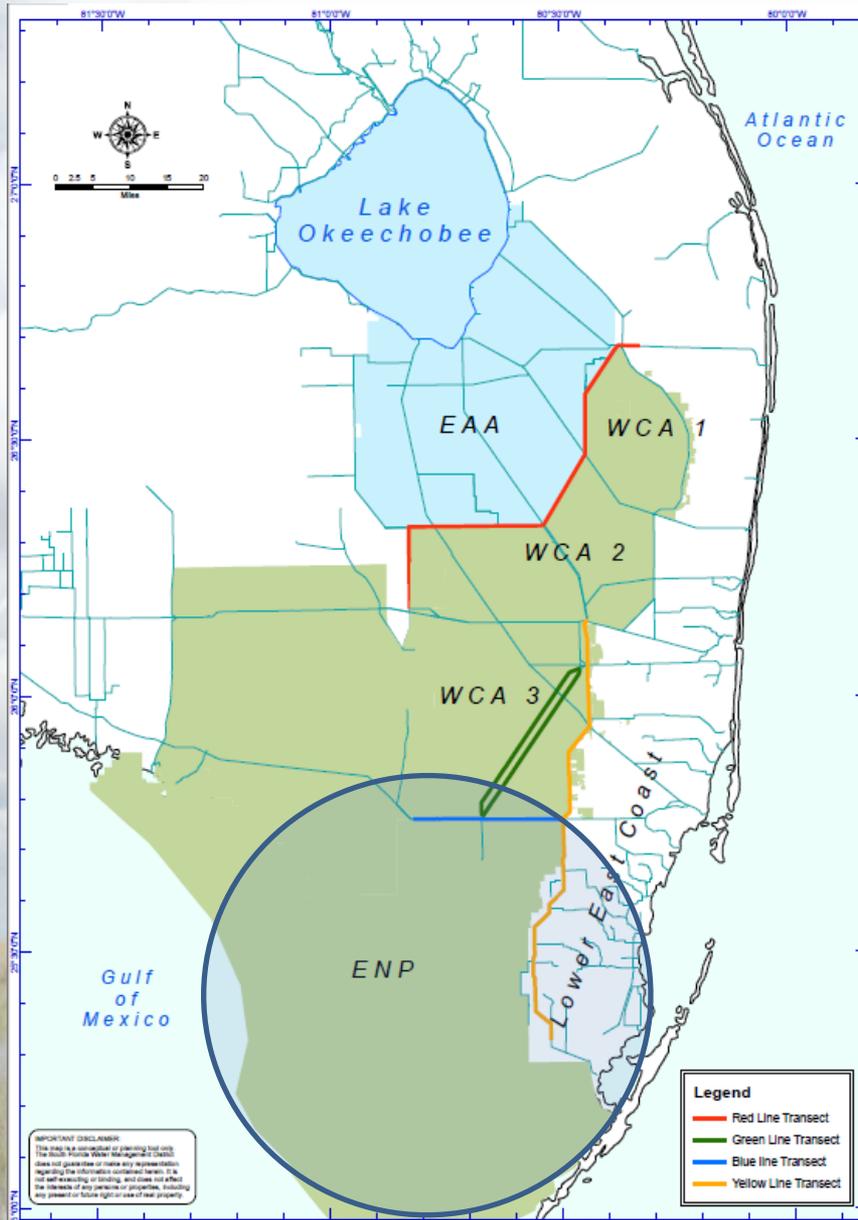
**REDLINE** –Flows from the Everglades Agricultural Area (EAA) into WCA 3A (L-4, L-5 and L-6 levees and canals)

**GREENLINE** – Flows through WCA 3A and WCA 3B (L-67A and C levees and associated canals)

**BLUELINE** – Flows from WCA 3A/3B into Everglades National Park (ENP) (Tamiami Trail roadway and L-29)

**YELLOWLINE** –Flows from WCA 3A/3B and ENP to the lower east coast (east coast protective levee system, the L-30 and L-31N)

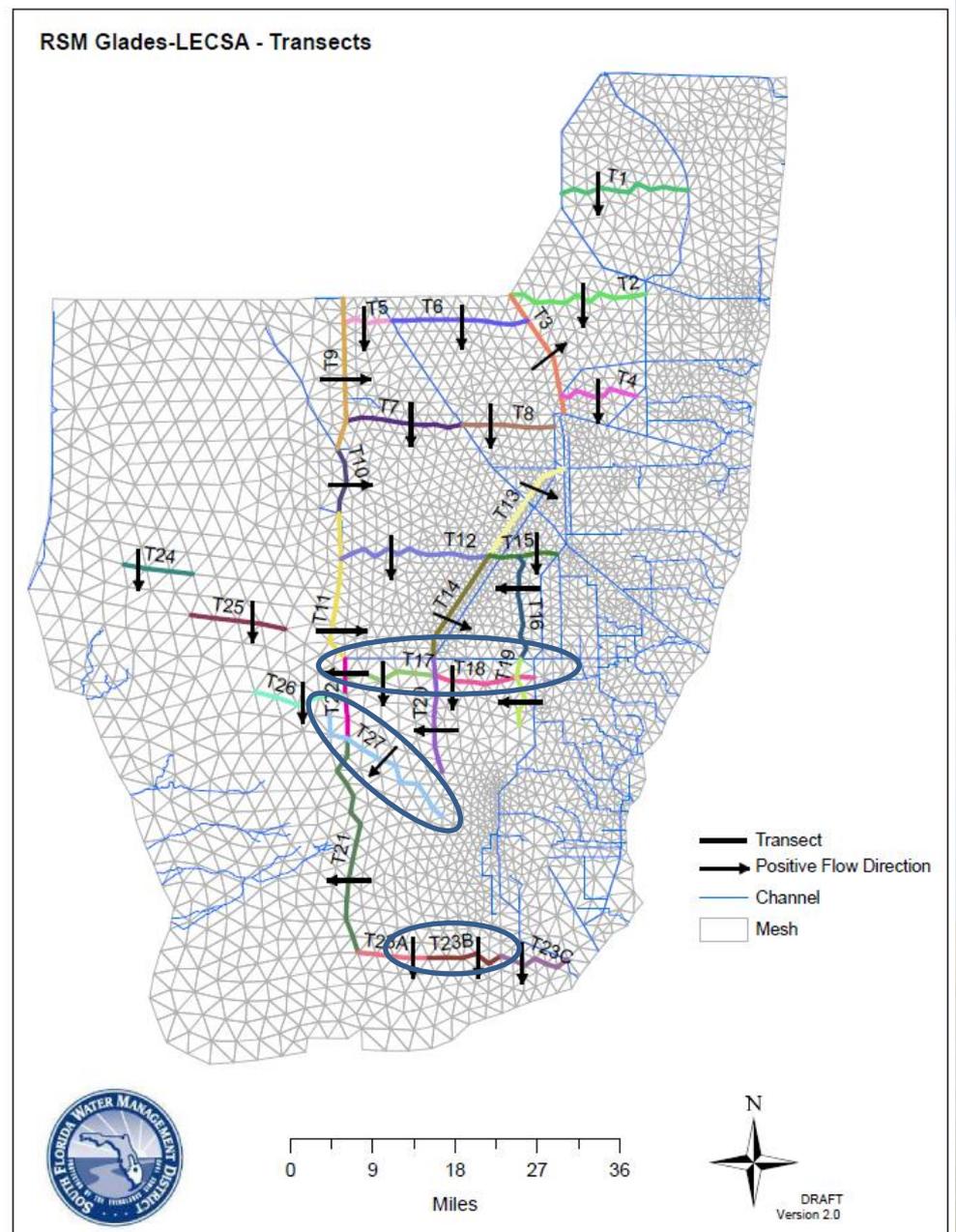
# Flow into Everglades National Park (Blue line)



# BLUELINE OBJECTIVES

- Restore seasonal hydroperiods and freshwater distribution
  - ▶ Improves wetland and upland habitat
- Improve sheetflow patterns and surface water depths and durations in the Everglades system
  - ▶ Reduces soil subsidence, peat fires, decline of tree islands and salt water intrusion
- Restore more natural water level responses to rainfall
  - ▶ Promotes diversity of flora, fauna and habitat function

# Evaluating Sensitivity of Changes in Flow to Everglades National Park Using the Glades-LECSA Regional Simulation Model



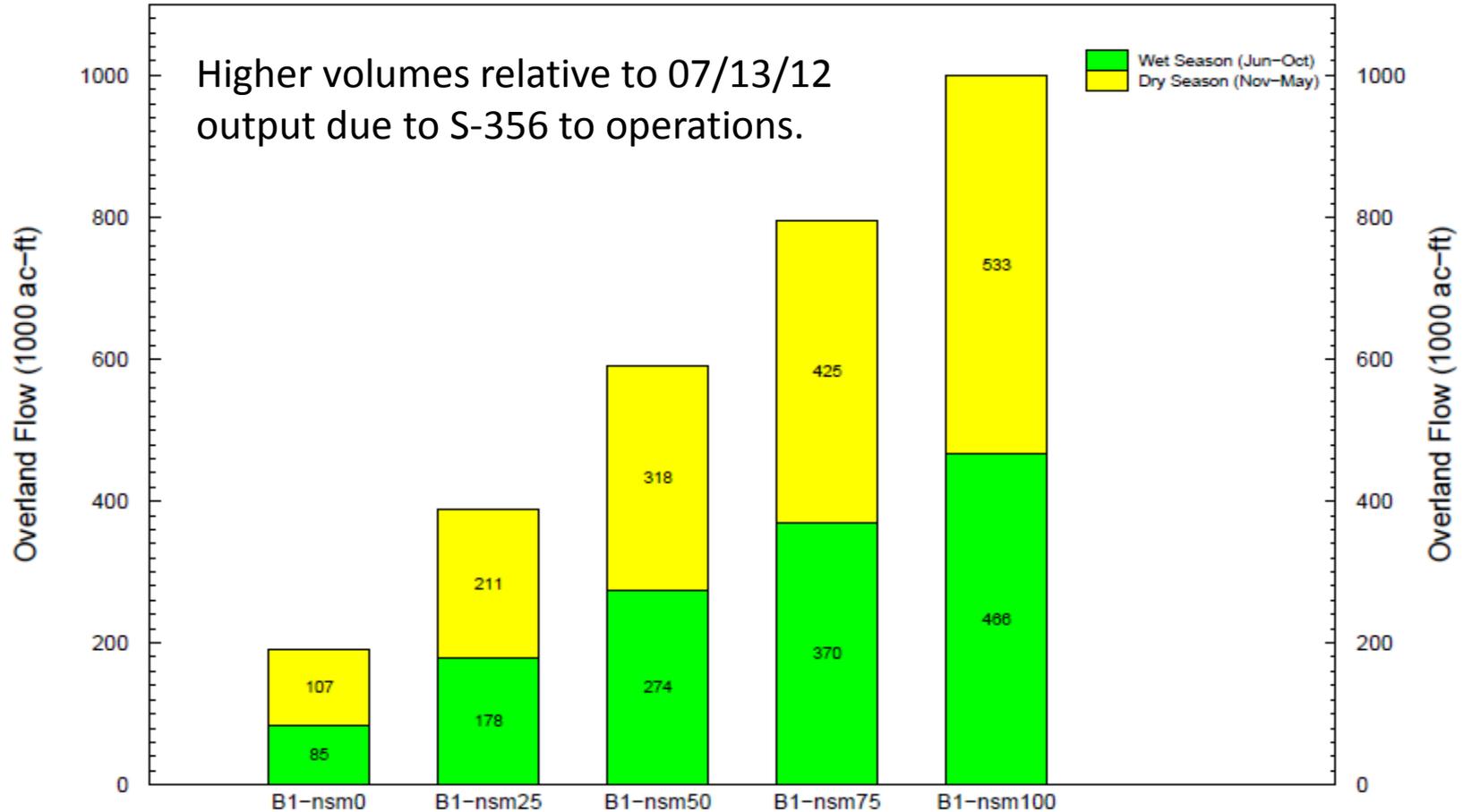
# EASTERN FLOWS INTO ENP

07/27/12

Output

## Average Annual Overland Flow across Transect 18

Southward flows in Northern ENP (South of Tamiami Trail & East of L-67 extension)



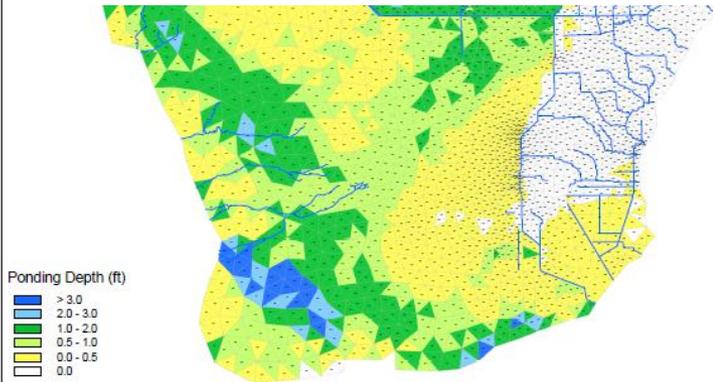
DRAFT  
07/10/12

# REGIONAL PONDING (EXAMPLE)

Average Annual Ponding Depth  
1965-2005



No additional flow



Ponding Depth (ft)  
> 3.0  
2.0 - 3.0  
1.0 - 2.0  
0.5 - 1.0  
0.0 - 0.5  
0.0

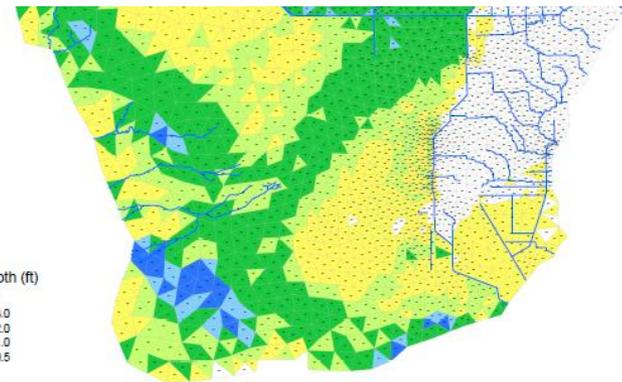
DRAFT  
Run Name: BL\_LT\_S356  
Run Date: Jul 2012



Average Annual Ponding Depth  
1965-2005

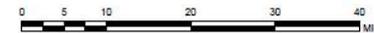


100% of Natural System Model flow



Ponding Depth (ft)  
> 3.0  
2.0 - 3.0  
1.0 - 2.0  
0.5 - 1.0  
0.0 - 0.5  
0.0

DRAFT  
Run Name: nam100  
Run Date: July 2012



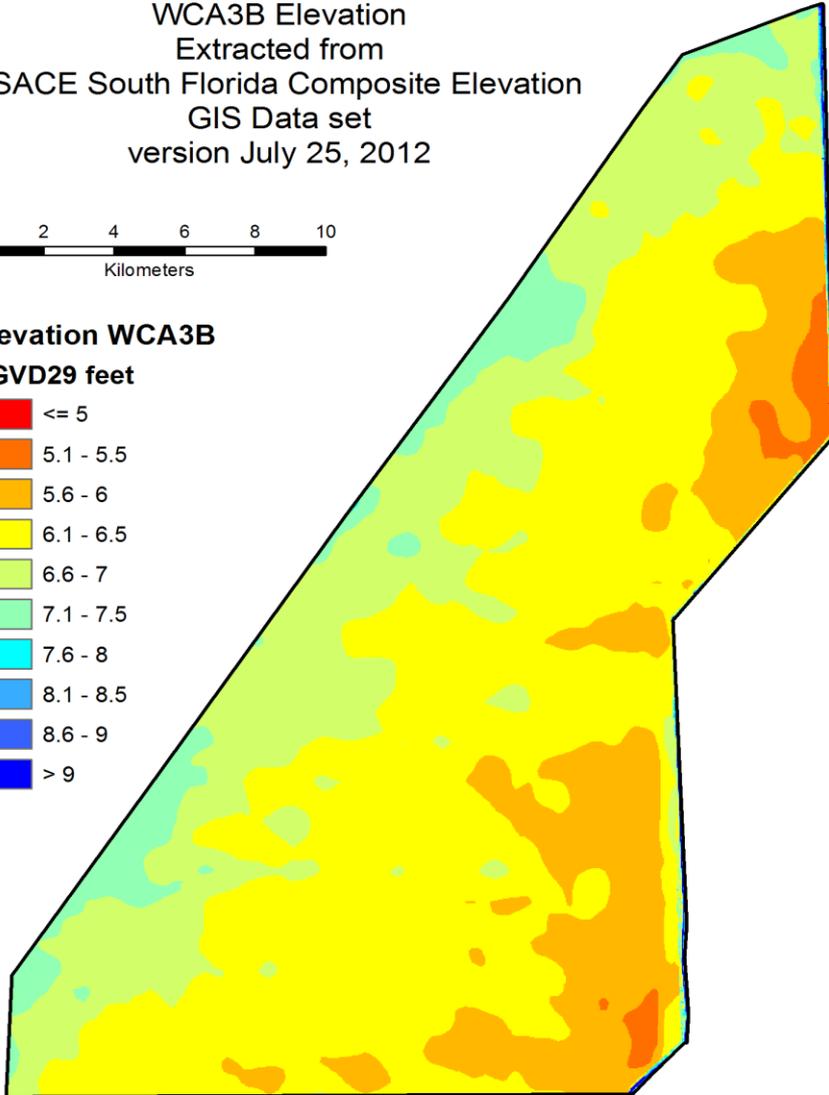
# HYDROLOGY OF WCA 3B

WCA3B Elevation  
Extracted from  
USACE South Florida Composite Elevation  
GIS Data set  
version July 25, 2012

0 2 4 6 8 10  
Kilometers

## Elevation WCA3B

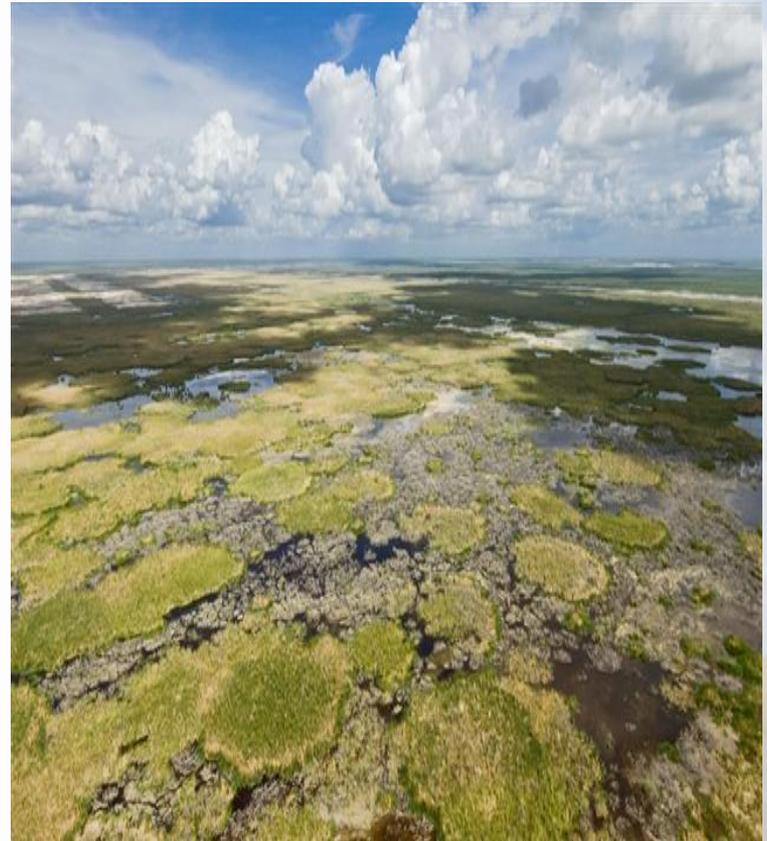
NGVD29 feet



- What is the desirable hydrology for this area?
  - ▶ Depth and duration are important
  - ▶ Add water incrementally?

# NEXT STEPS

- Receive and process FEB (A1/ A2) and WCA 3A features modeling results
- Continue formulation for flows through WCA 3A/ 3B into Everglades National Park and Seepage Management
- Continue engagement with the public and PDT



# UPCOMING MEETINGS\*

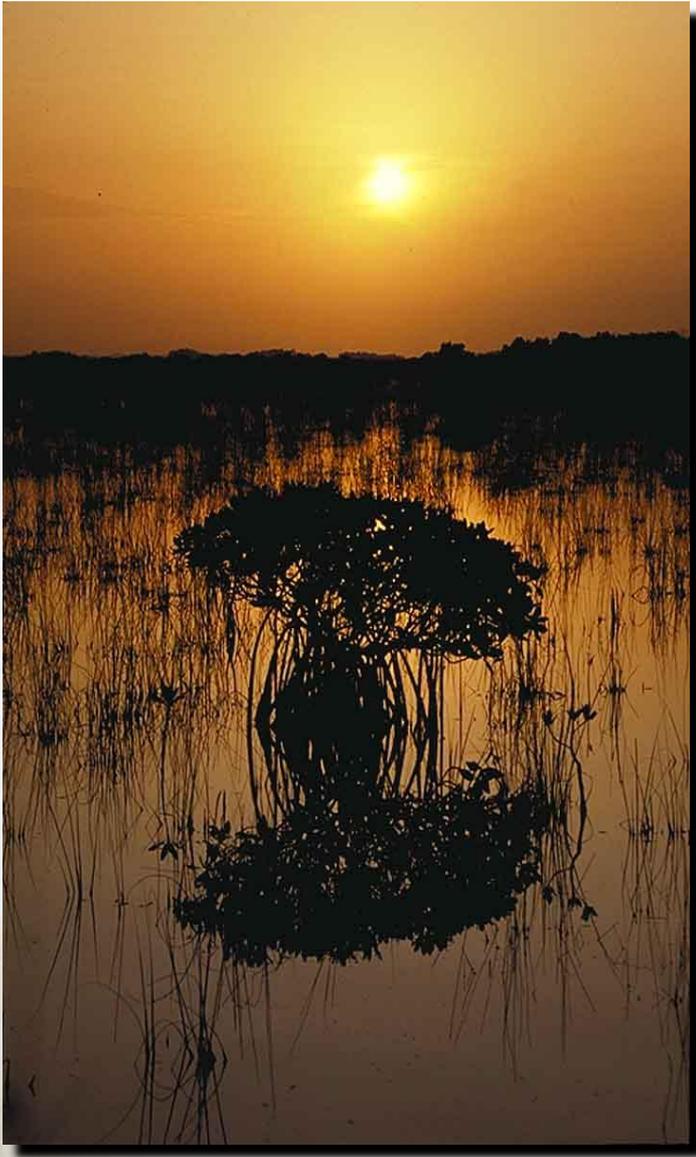
## ■ August:

- ▶ 14 – Project Delivery Team (webinar)
- ▶ 28 & 29 – Project Delivery Team (District and offsite)
- ▶ 29 (6-9 pm) – Recreation Workshop (District)
- ▶ 30 – SFERTF Working Group Sponsored Public Workshop (Miami-Dade County Fire Training Facility)

## ■ September

- ▶ 6 – Recreation Workshop (Miami-Dade County Fire Training Facility)

\*See [www.sfrestore.org](http://www.sfrestore.org) for updated calendar



Questions?