

CENTRAL EVERGLADES PLANNING PROJECT



*Restoring the Heart
of the Everglades*

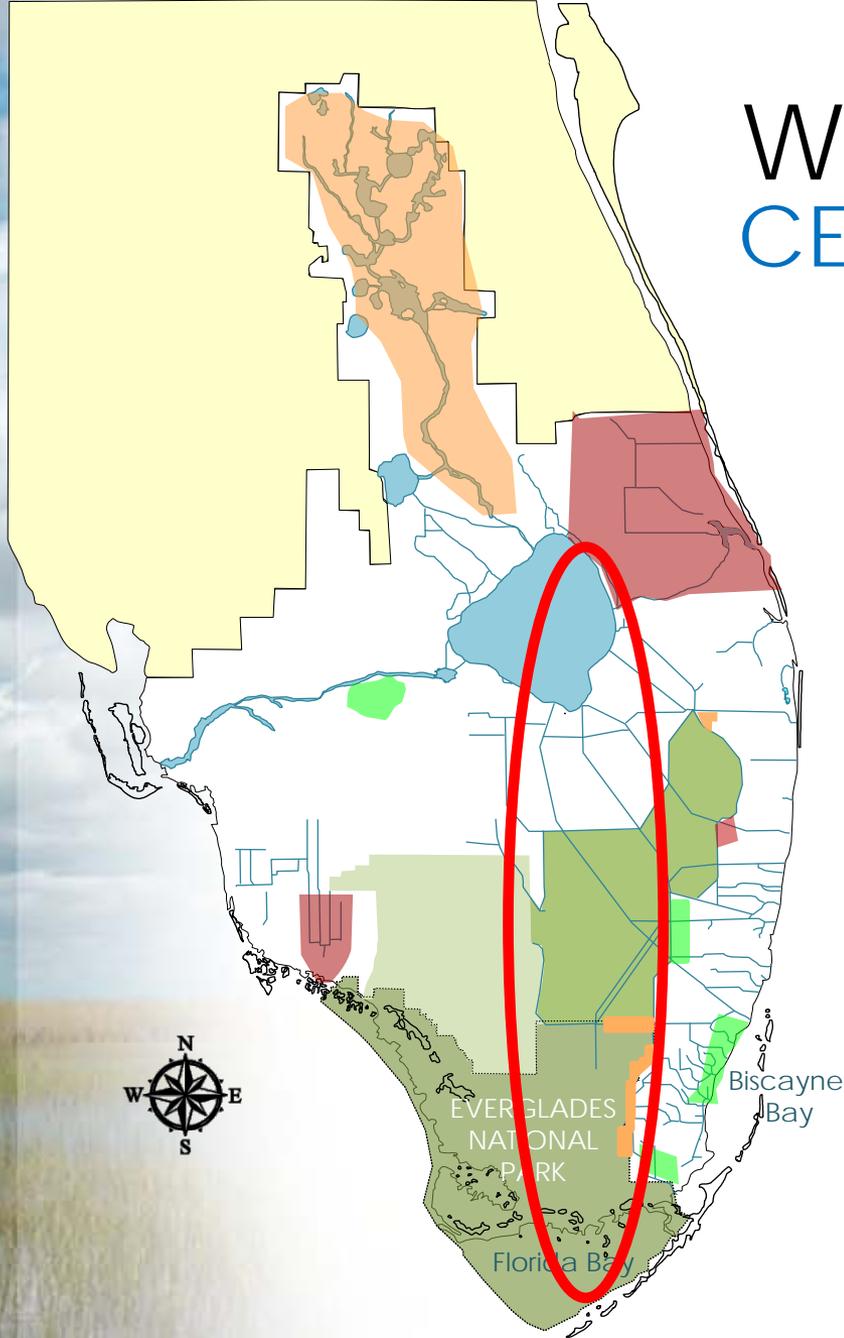
Central Everglades Planning Project Update

Task Force
Meeting

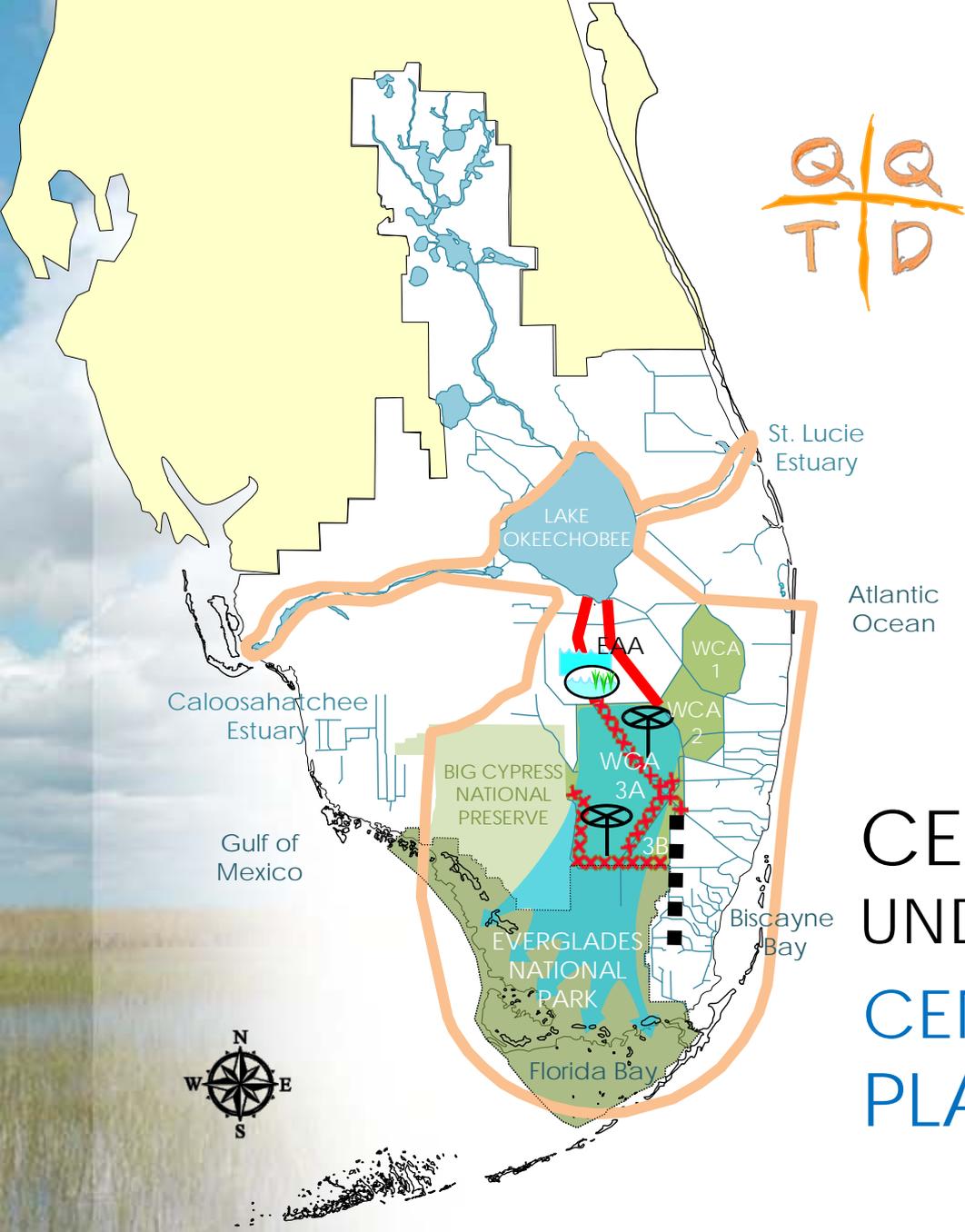
June 19, 2012

WHAT'S NEXT?

CENTRAL EVERGLADES



- Reduce undesirable discharges to east and west coast estuaries
- Deliver "new" sources of clean water to the Central Everglades and ENP
- Restore habitat in the central Everglades, focusing on the "River of Grass"



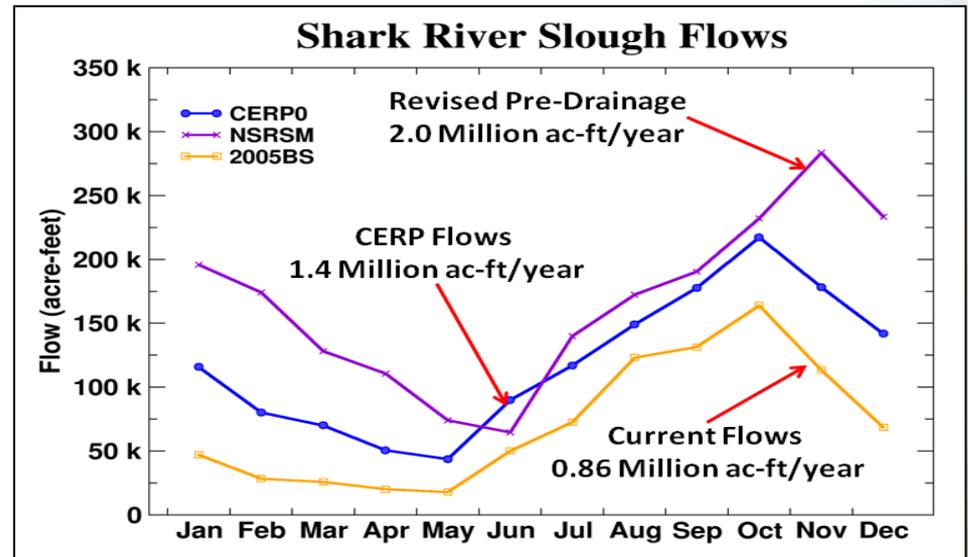
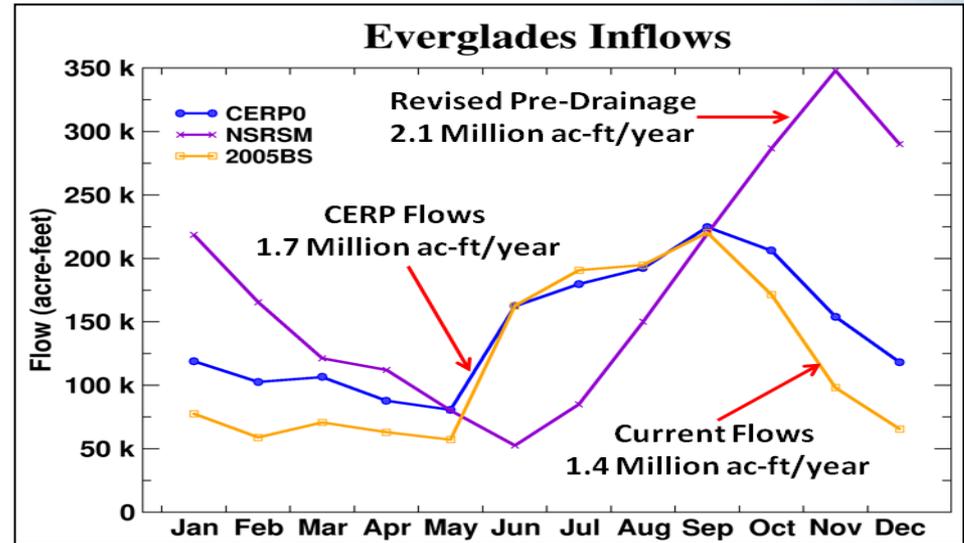
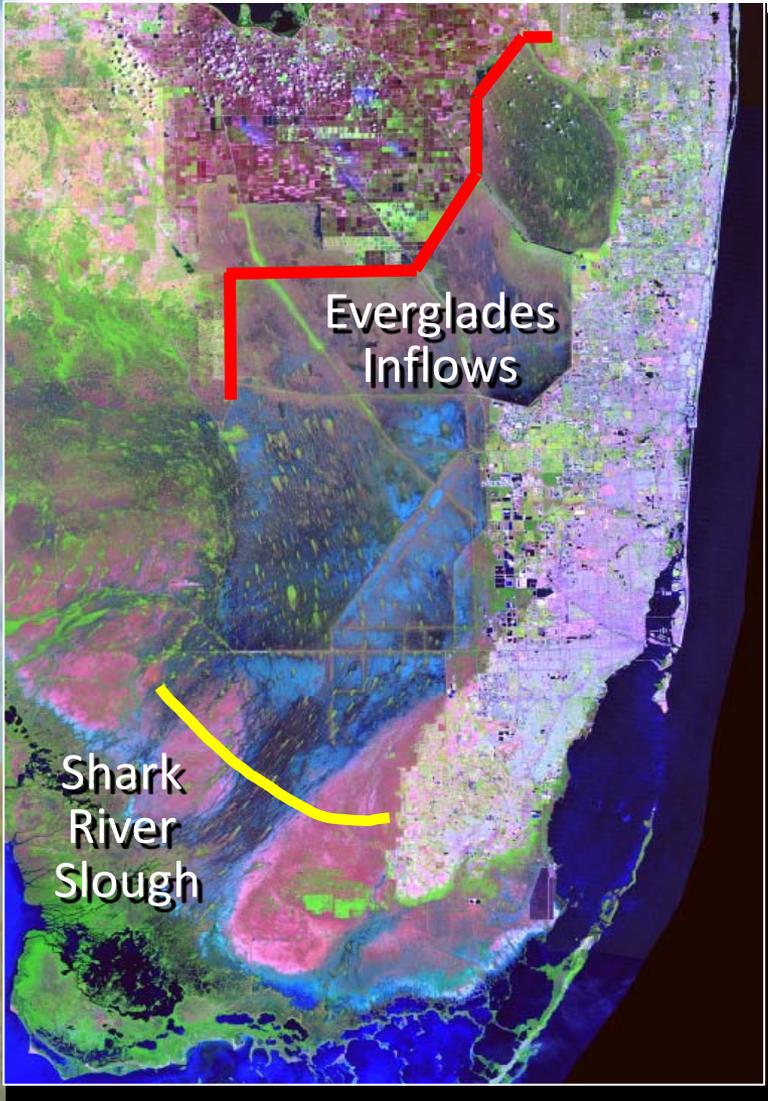
Q/Q
T/D

-  Central Everglades Planning Project Study Area
-  Storage, Treatment, and Conveyance in the EAA
-  Decompartmentalization and Sheetflow Enhancement
-  Seepage Management
-  Operational Changes

CERP COMPONENTS UNDER CONSIDERATION

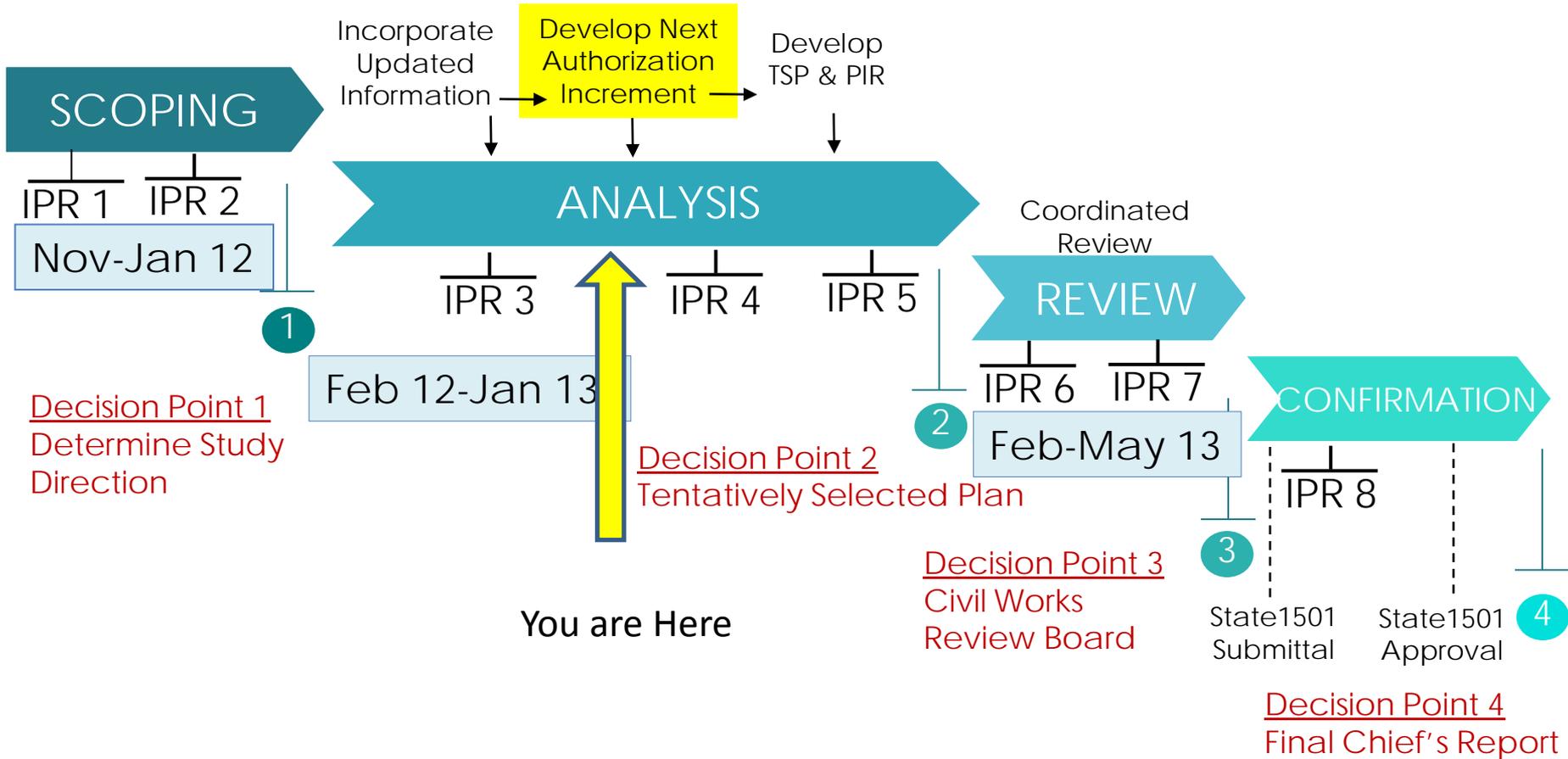
CENTRAL EVERGLADES PLANNING PROJECT

WATER FLOW IN THE EVERGLADES



CENTRAL EVERGLADES PROCESS

TARGET - 18 MONTHS



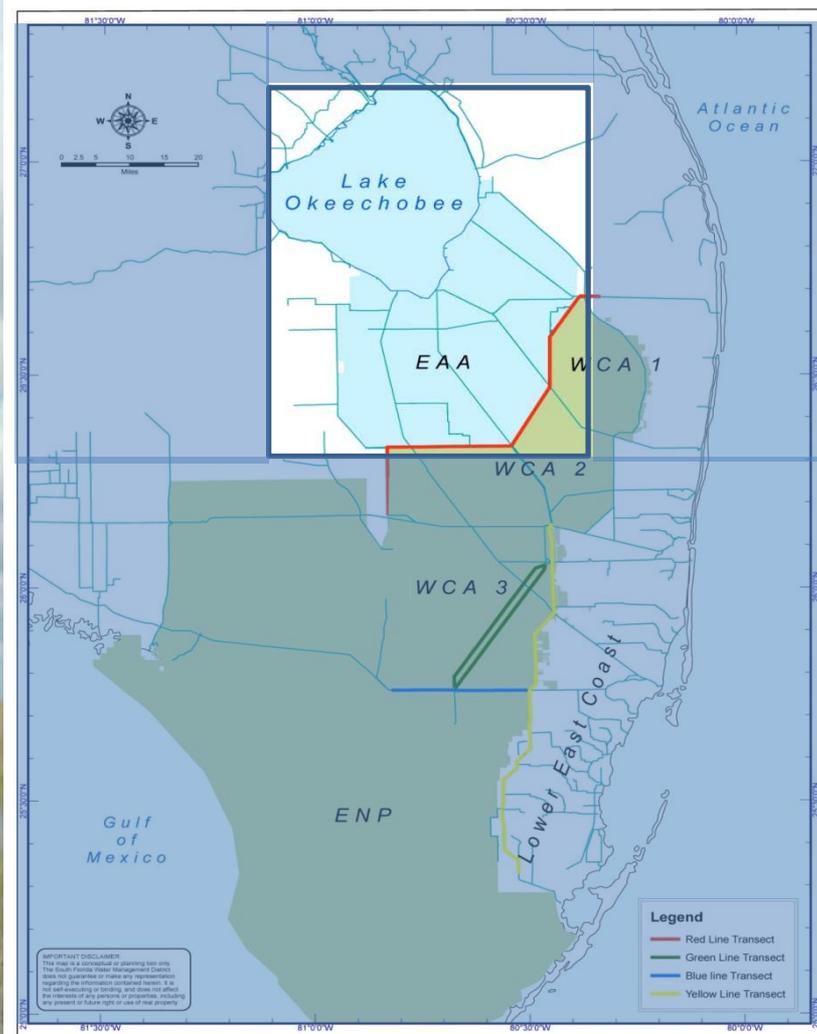
IPR: In-Progress Review with Corps Leadership

PUBLIC PARTICIPATION PROCESS



- Use of Existing Forums to Engage Stakeholders
- Working Group Sponsored Public Workshops
 - Enhance opportunities for meaningful public engagement
 - Topic meetings to address particular issues
- Monthly Briefings
 - SFWMD Governing Board
 - Water Resources Advisory Commission

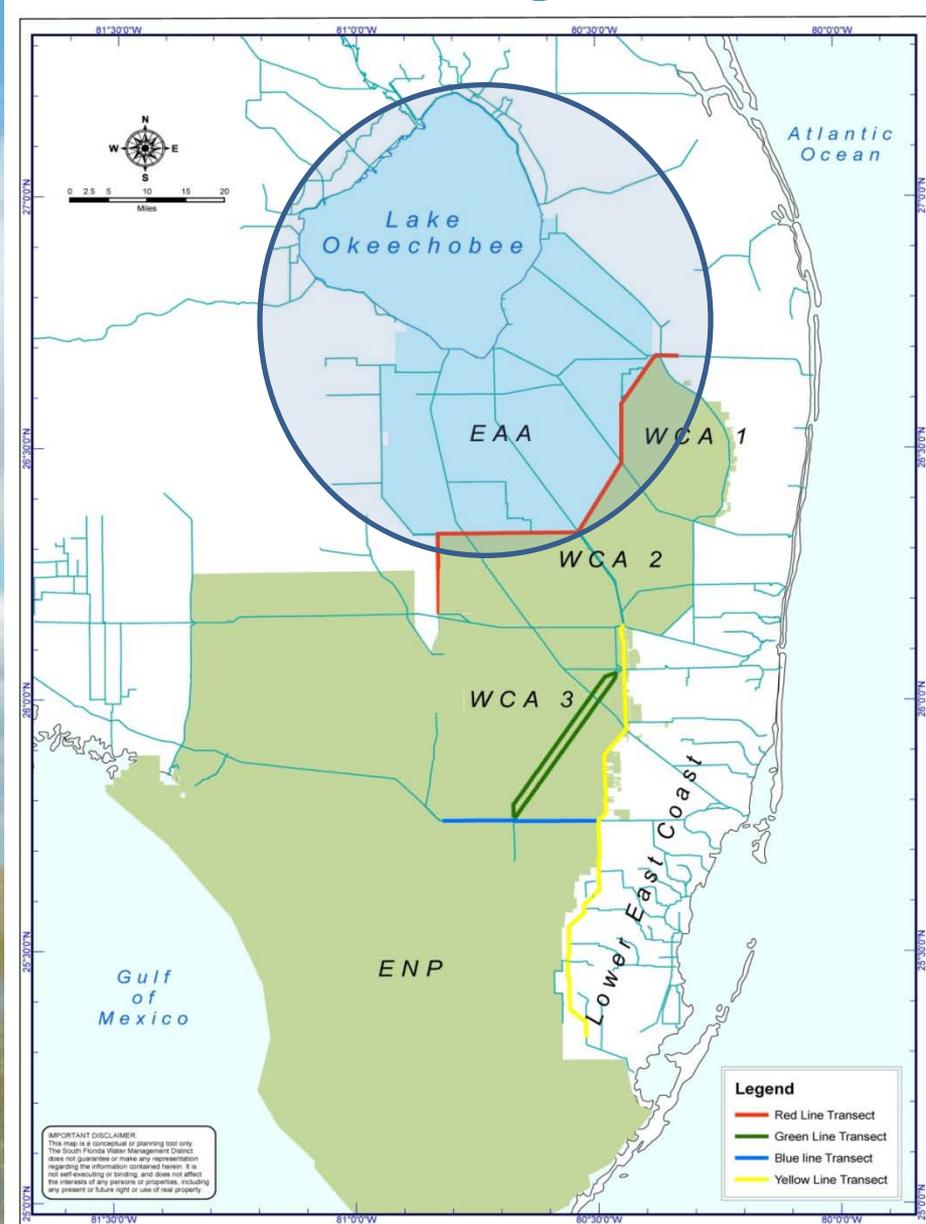
COMPONENTS CONSIDERED NORTH OF THE REDLINE



Storage and Treatment Components

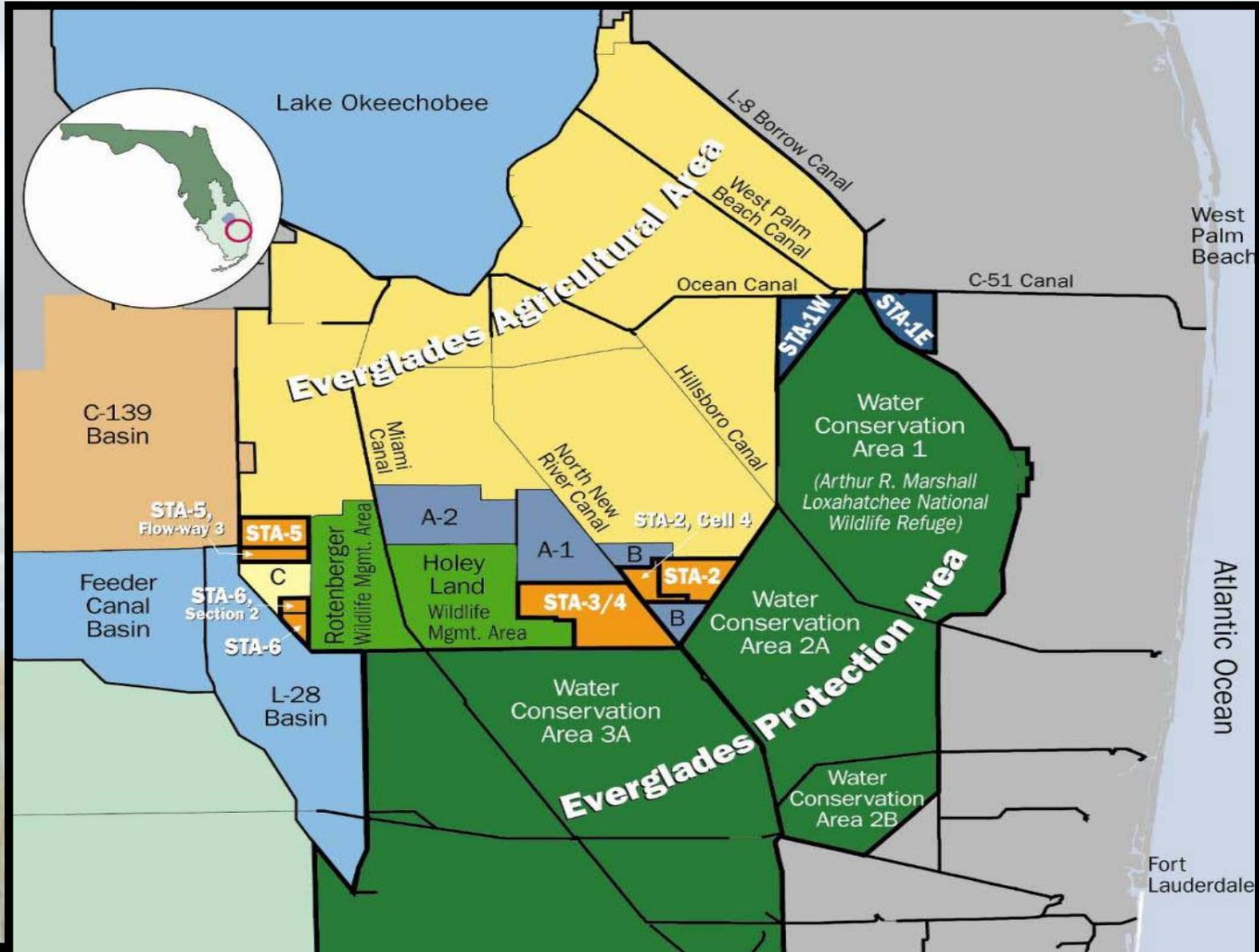
- Stormwater Treatment Areas (STAs)
- Shallow Storage with STA
- Deep Storage with STA
- Flow Equalization Basin
- Flexibility within Lake Operations
- Improved conveyance

Screening Criteria for EAA Components



- Level 1 – Criteria based on CEPP objectives
 - ▶ Additional Flow to the Everglades
 - ▶ Everglades Dry Standard Score
 - ▶ Estuary Performance
 - ▶ Water Supply
- Level 2 – Other important considerations
 - ▶ Lake Okeechobee Performance
 - ▶ Adaptability
 - ▶ Onsite Habitat Value

LOCATION OF TALISMAN PROPERTY

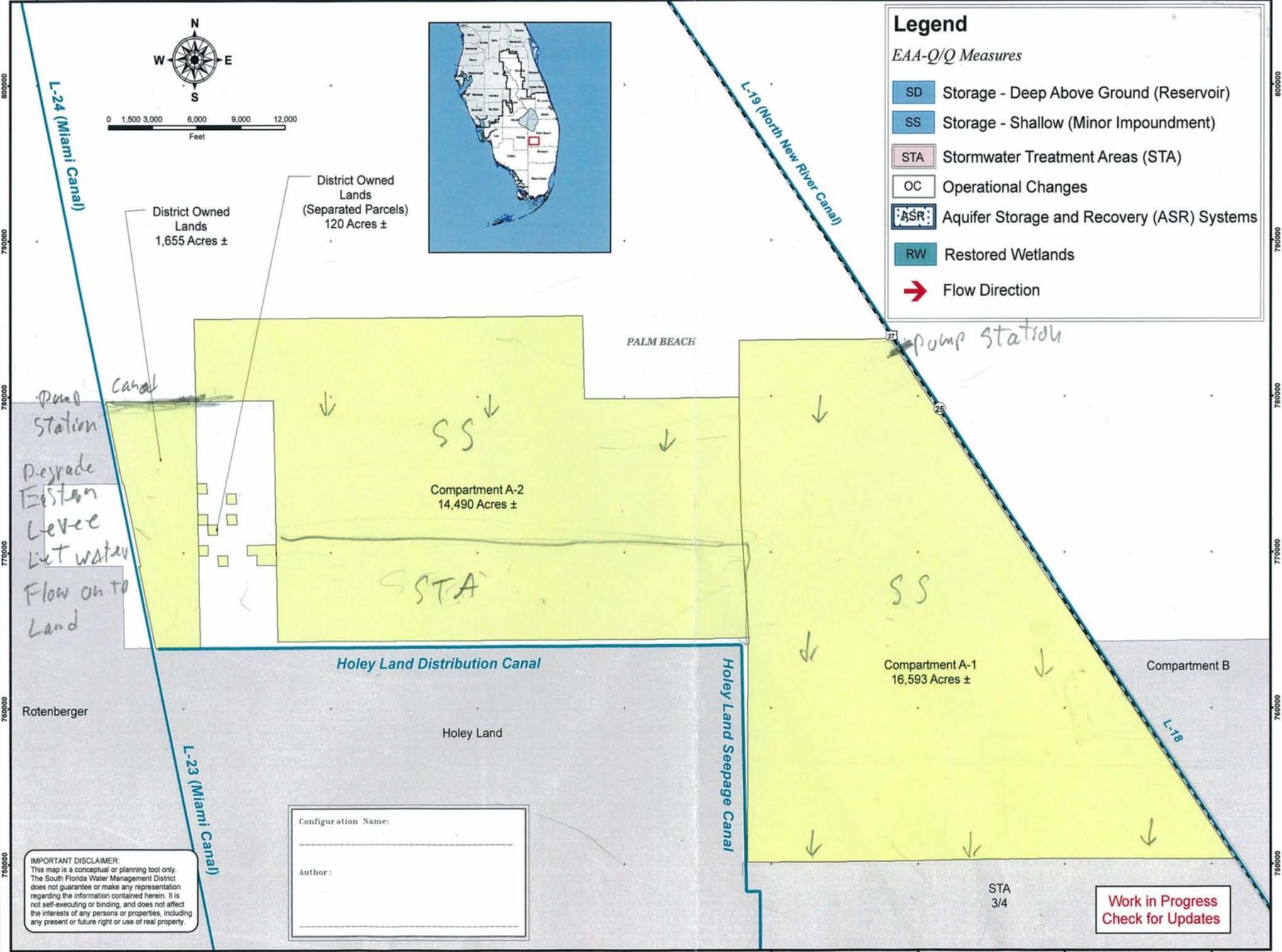




Legend

EAA-Q/Q Measures

- SD Storage - Deep Above Ground (Reservoir)
- SS Storage - Shallow (Minor Impoundment)
- STA Stormwater Treatment Areas (STA)
- OC Operational Changes
- ASR Aquifer Storage and Recovery (ASR) Systems
- RW Restored Wetlands
- ➔ Flow Direction

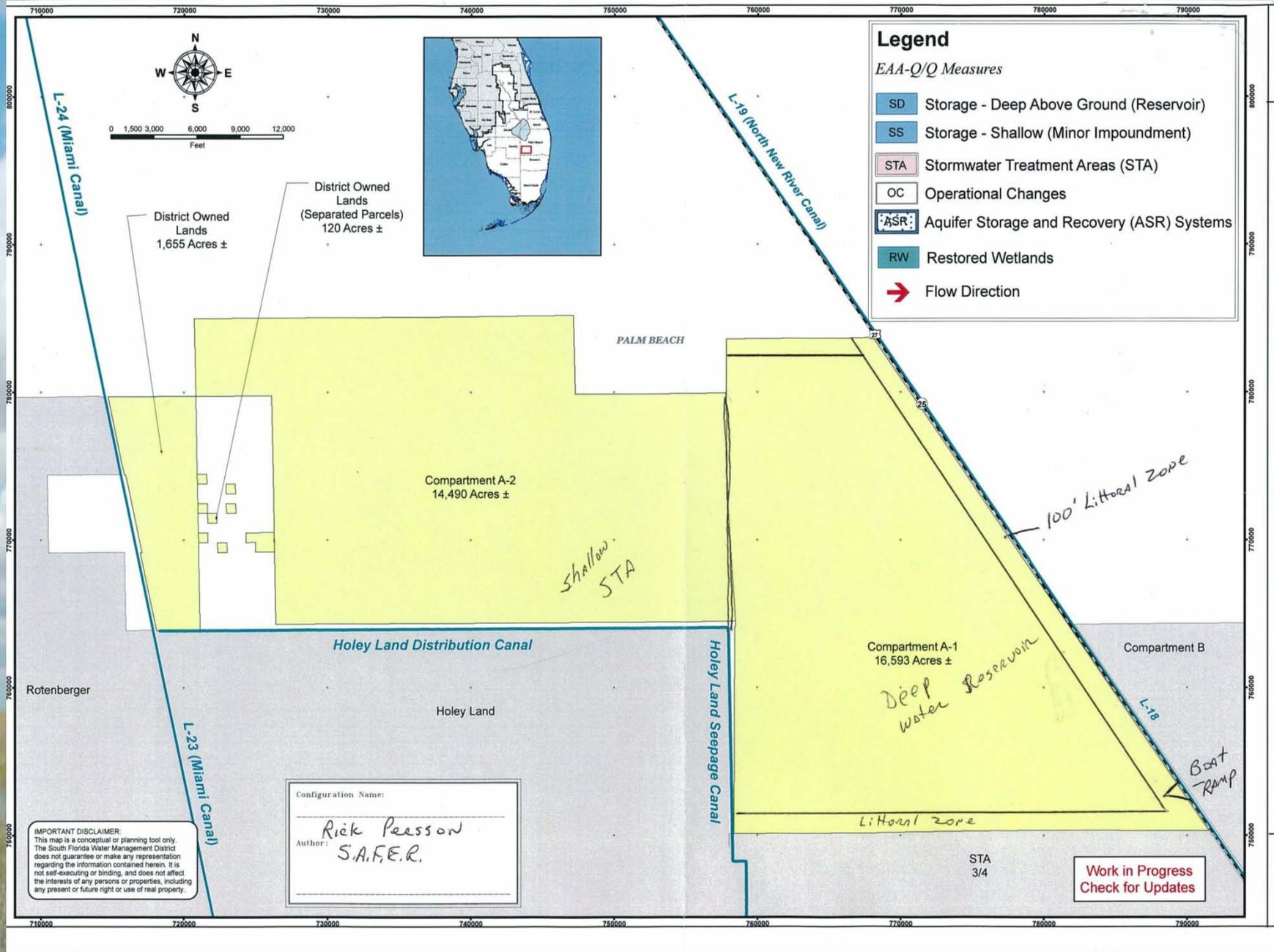


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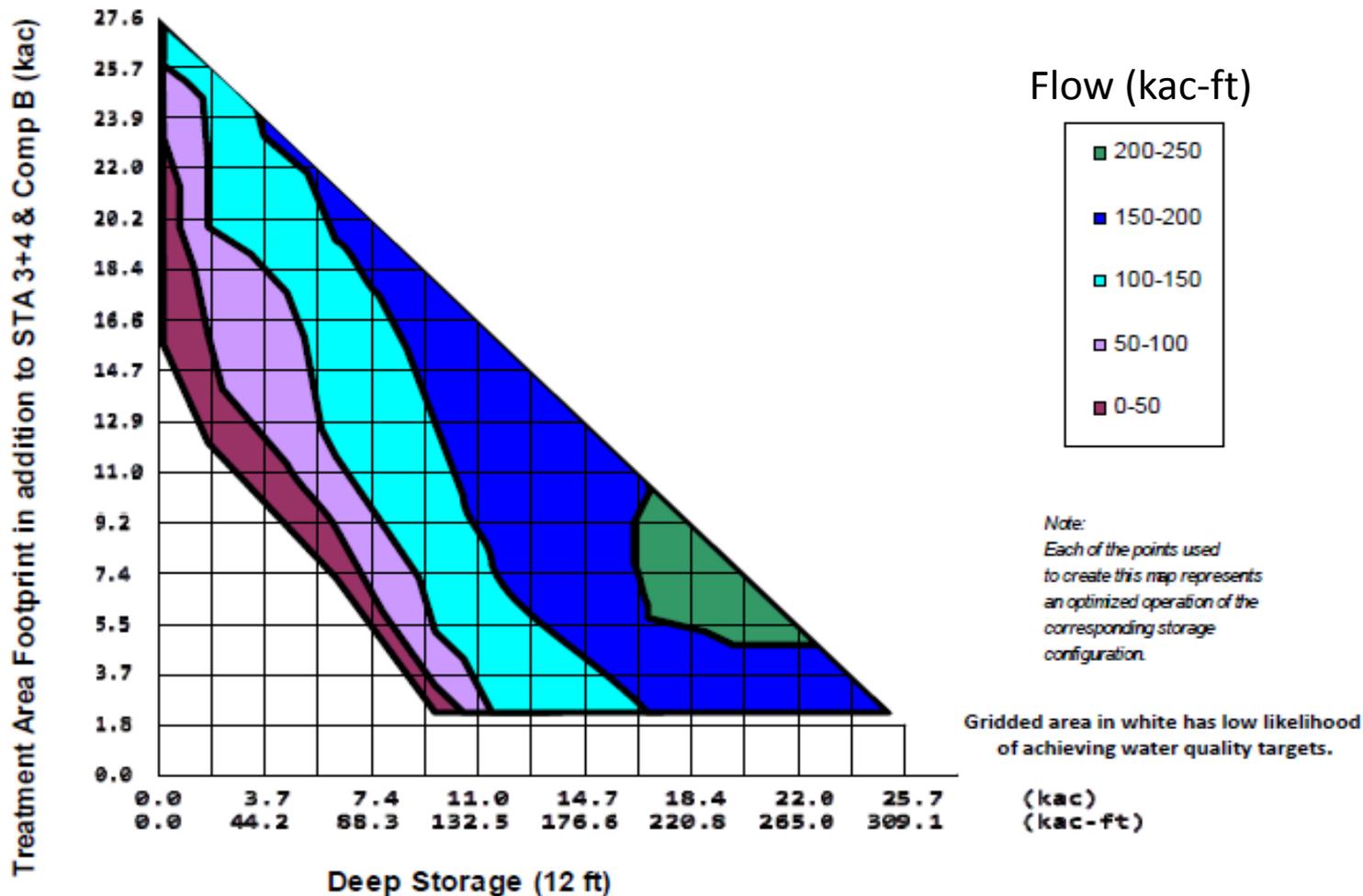
Configuration Name: _____

Author: _____

Work in Progress
Check for Updates



Additional Average Annual Flow to Everglades (kac-ft)



PERFORMANCE CRITERIA SUMMARY

Management Measure Configuration			Additional Flows to Everglades	Everglades Dry Standard Score	Estuary	Increased Water Availability	Objectives Sub-Total	Total Cost Million \$
Flow-Through Wetland/FEB								
FEB	Reservoir	LO Ops						
28000		190-Est	3	2	Performs Similarly	1	6	360 - 560
		190-WS	3	2	Performs Similarly	3	8	360 - 560
		190-LO	3	2	Performs Similarly	2	7	360 - 560
4ft Shallow Storage & STA								
STA	Reservoir	LO Ops						
4000	24000	190-Est	2	2	Performs Similarly	1	5	550 - 750
		190-LO	2	2	Performs Similarly	2	6	550 - 750
		190-WS	2	2	Performs Similarly	3	7	550 - 750
14000	14000	190-Est	2	2	Performs Similarly	1	5	620 - 820
		190-LO	2	2	Performs Similarly	2	6	620 - 820
		190-WS	2	2	Performs Similarly	3	7	620 - 820
6ft Deep Storage & STA								
STA	Reservoir	LO Ops						
4000	24000	190-Est	2	2	Performs Similarly	1	5	800 - 1000
		190-WS	2	2	Performs Similarly	3	7	800 - 1000
		190-LO	2	2	Performs Similarly	2	6	800 - 1000
17000	11000	190-Est	2	2	Performs Similarly	1	5	840 - 1040
		190-WS	2	2	Performs Similarly	3	7	840 - 1040
		190-LO	2	2	Performs Similarly	2	6	840 - 1040
12 ft Deep Storage & STA								
STA	Reservoir	LO Ops						
4000	24000	140-Est	1	3	Performs Similarly	2	6	1550 - 1700
		140-WS	1	3	Performs Similarly	3	7	1550 - 1700
		140-LO	1	3	Performs Similarly	2	6	1550 - 1700
7000	21000	240-Est	4	3	Performs Similarly	1	8	1560 - 1700
		240-WS	4	3	Performs Similarly	2	9	1560 - 1700
		240-LO	4	3	Performs Similarly	2	9	1560 - 1700
11000	17000	190-Est	3	3	Performs Similarly	1	7	1570 - 1700
		190-WS	3	3	Performs Similarly	3	9	1570 - 1700
		190-LO	3	3	Performs Similarly	2	8	1570 - 1700
STA								
STA	Reservoir	LO Ops						
28000		140-Est	1	2	Performs Similarly	2	5	650 - 750
		140-WS	1	2	Performs Similarly	3	6	650 - 750
		140-LO	1	2	Performs Similarly	2	5	650 - 750

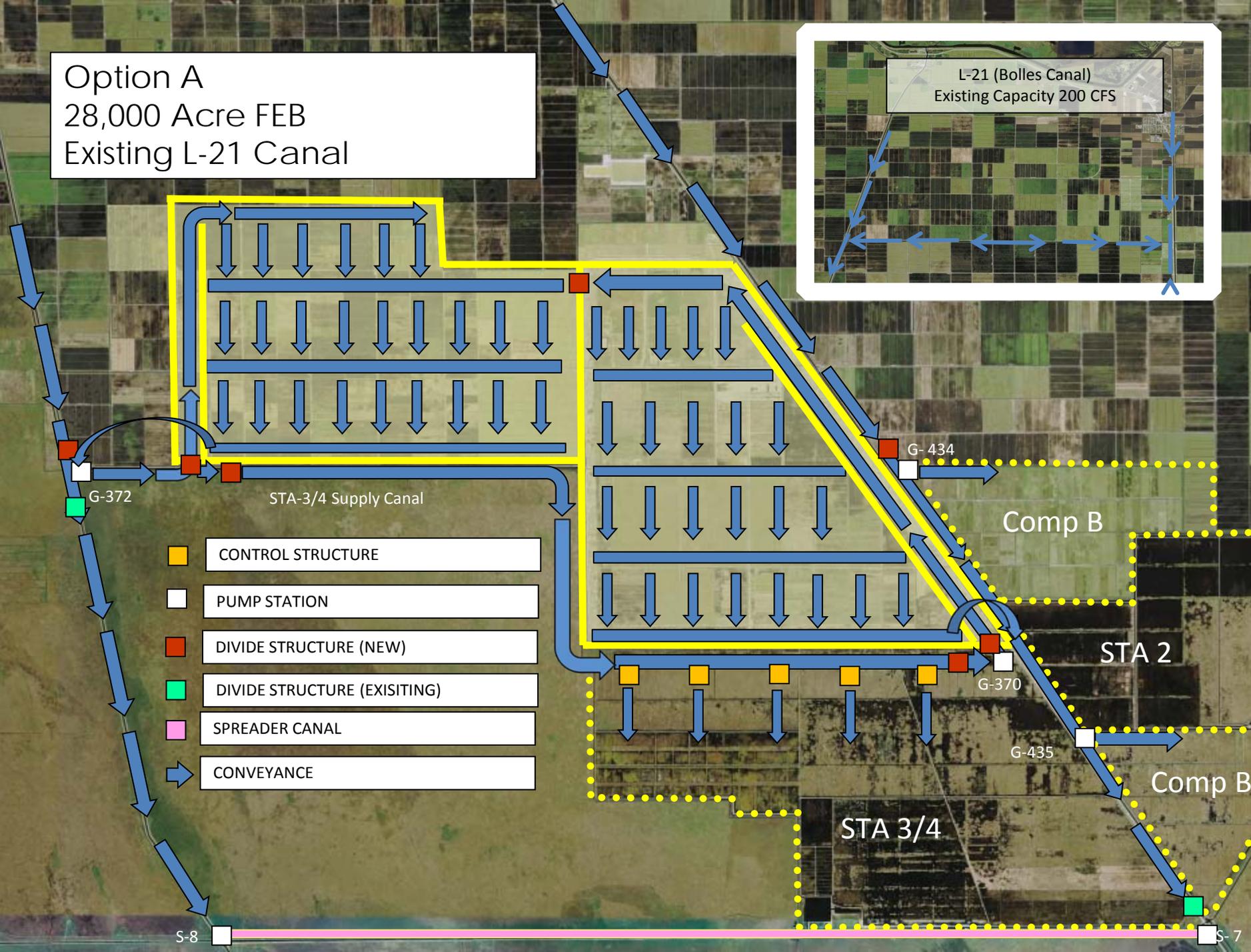
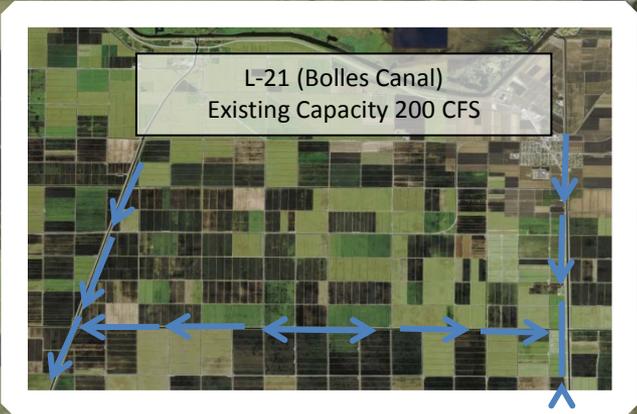
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NORTH OF THE REDLINE SCREENING RESULTS

- All of the options rated better than base conditions for all objectives
- Top overall performers: 28K Acre Flow-Equalization Basin and 12K Acre 12ft reservoir with 7K acre STA
 - ▶ No configurations cost less than these while producing greater benefit, i.e., "Cost Effective Plans"
 - ▶ The 12ft Reservoir provides the greatest benefits, however, the cost is prohibitive as a first increment and eliminated from further consideration
- There is no substantial difference in the northern estuary performance between options, but better than base conditions
- Lake operation scenarios produce measurable differences for improvements to Agricultural Water Supply
- **28,000 acre FEB provides ~ 190K ac-ft of ADDITIONAL flow to Everglades (CERP ~ 300K Ac-ft) = significant increment**

Option A
 28,000 Acre FEB
 Existing L-21 Canal



- CONTROL STRUCTURE
- PUMP STATION
- DIVIDE STRUCTURE (NEW)
- DIVIDE STRUCTURE (EXISTING)
- SPREADER CANAL
- CONVEYANCE

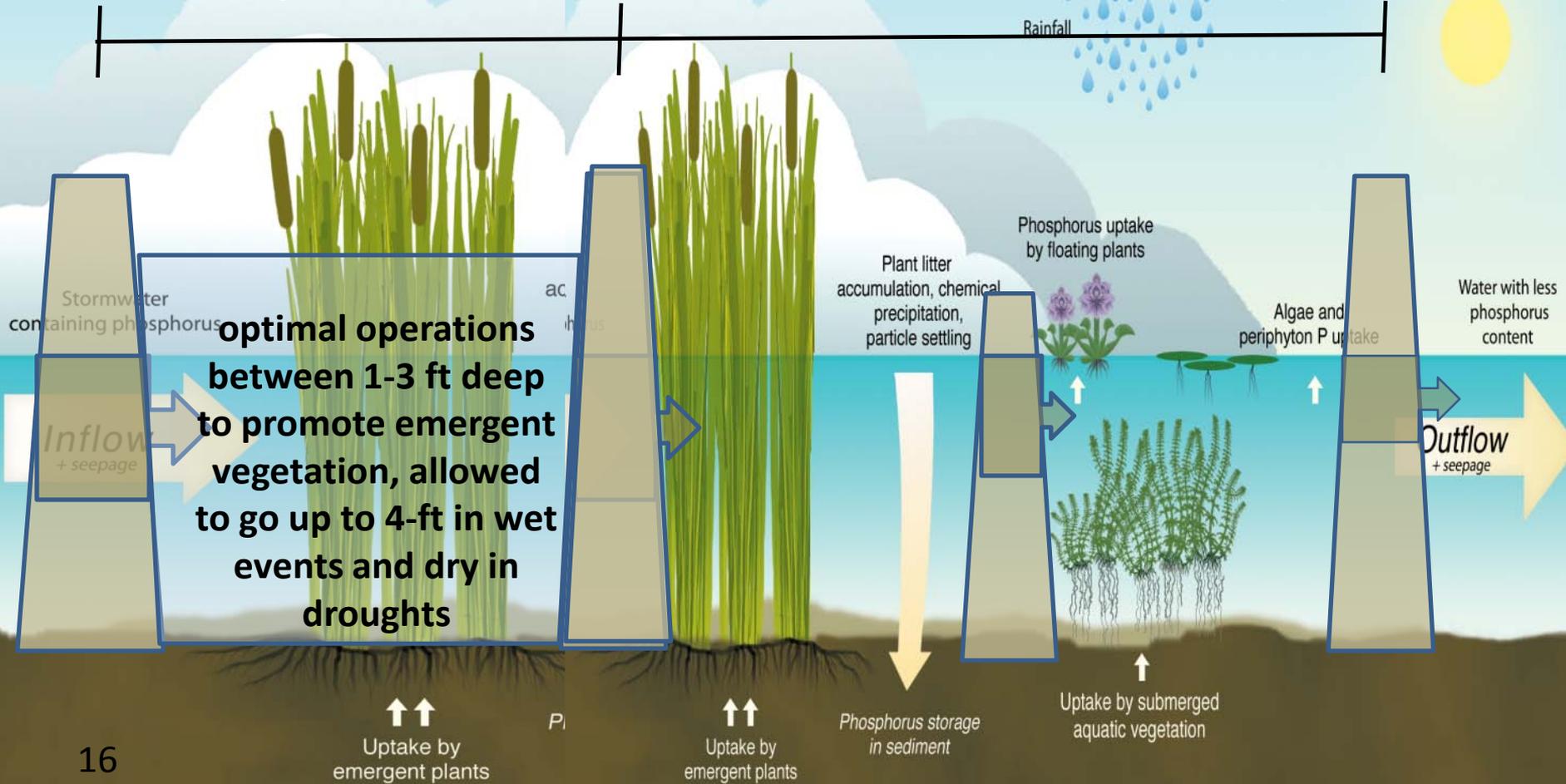
S-8

S-7

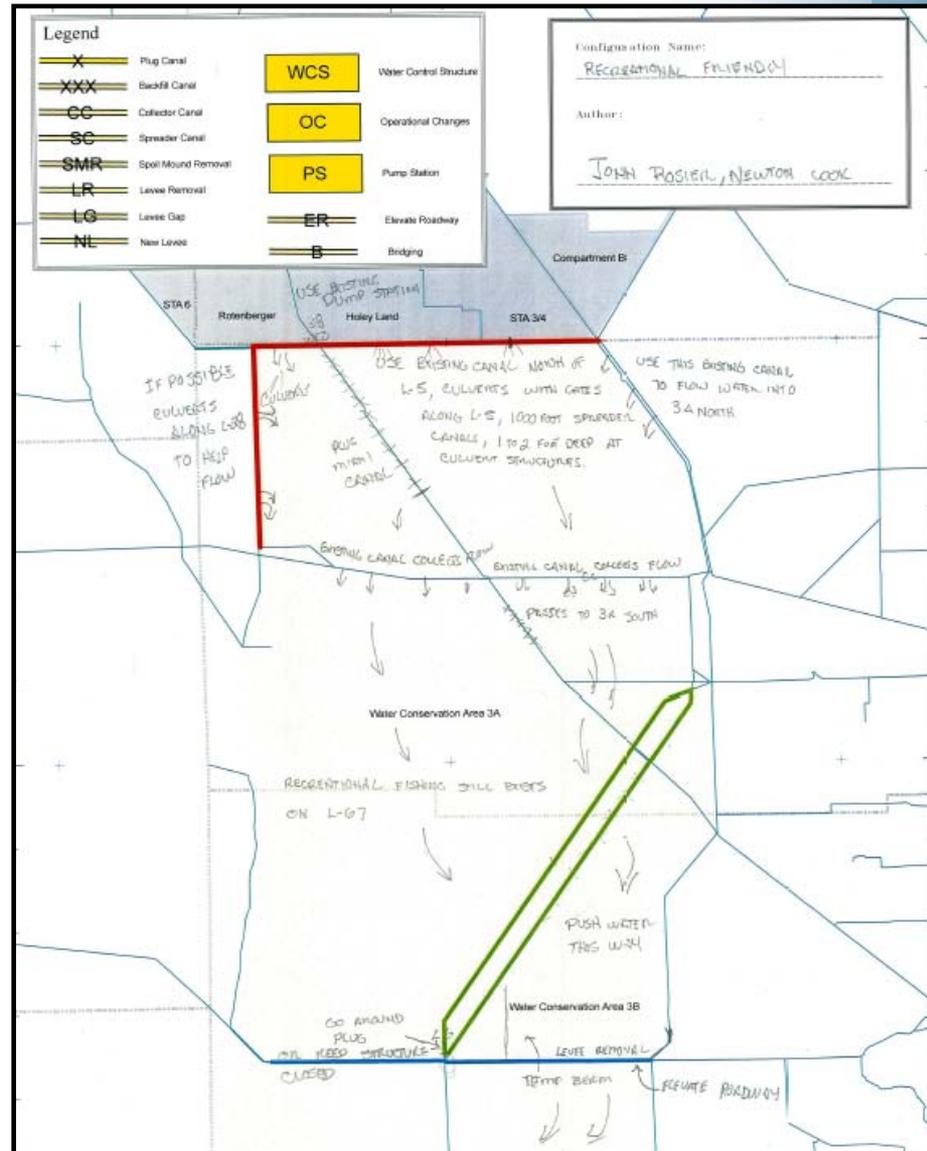
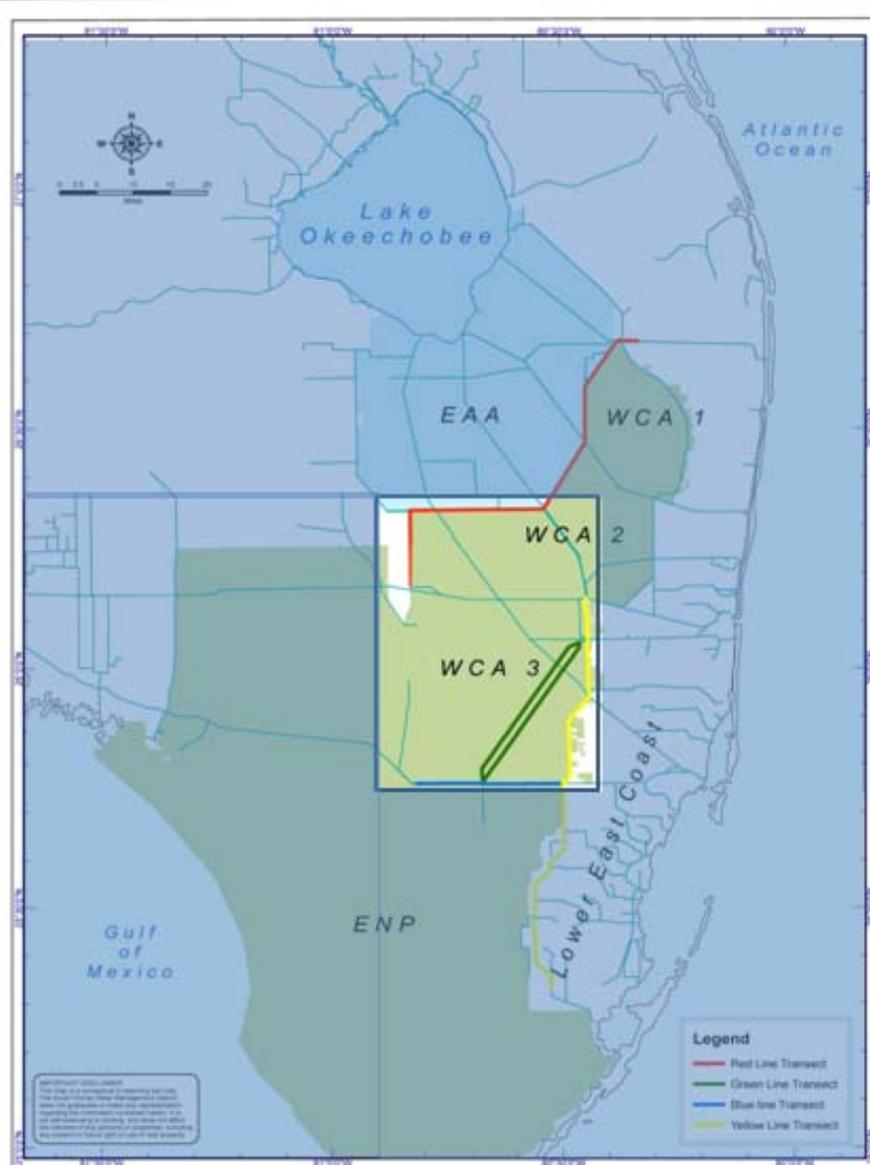
FLOW EQUALIZATION BASIN AND STA

Flow Equalization Basin

Stormwater Treatment Area 3/4



NEXT STEPS – SOUTH OF REDLINE



KEY MILESTONES

Task

Completion

Initial management
measures screening

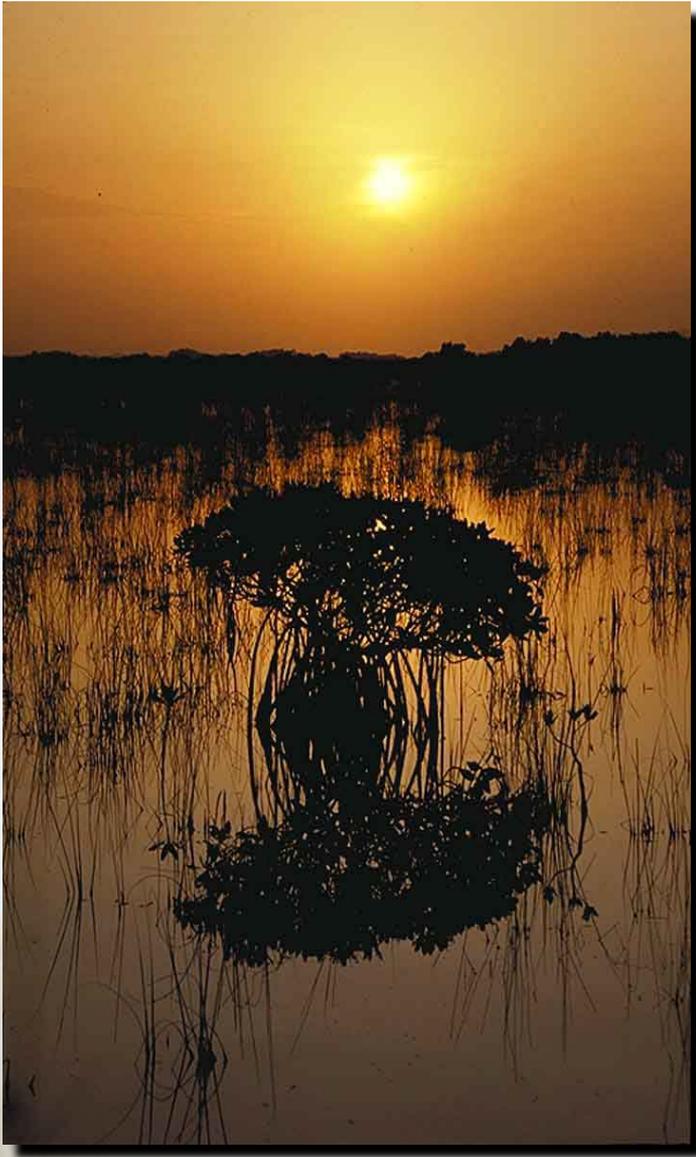
1 Apr 12

Component optimization and
alternative development

30 Aug 12

Evaluate final array of
alternatives and select
preliminary TSP

30 Oct 12



THANK YOU