SOUTH FLORIDA WATER MANAGEMENT DISTRICT

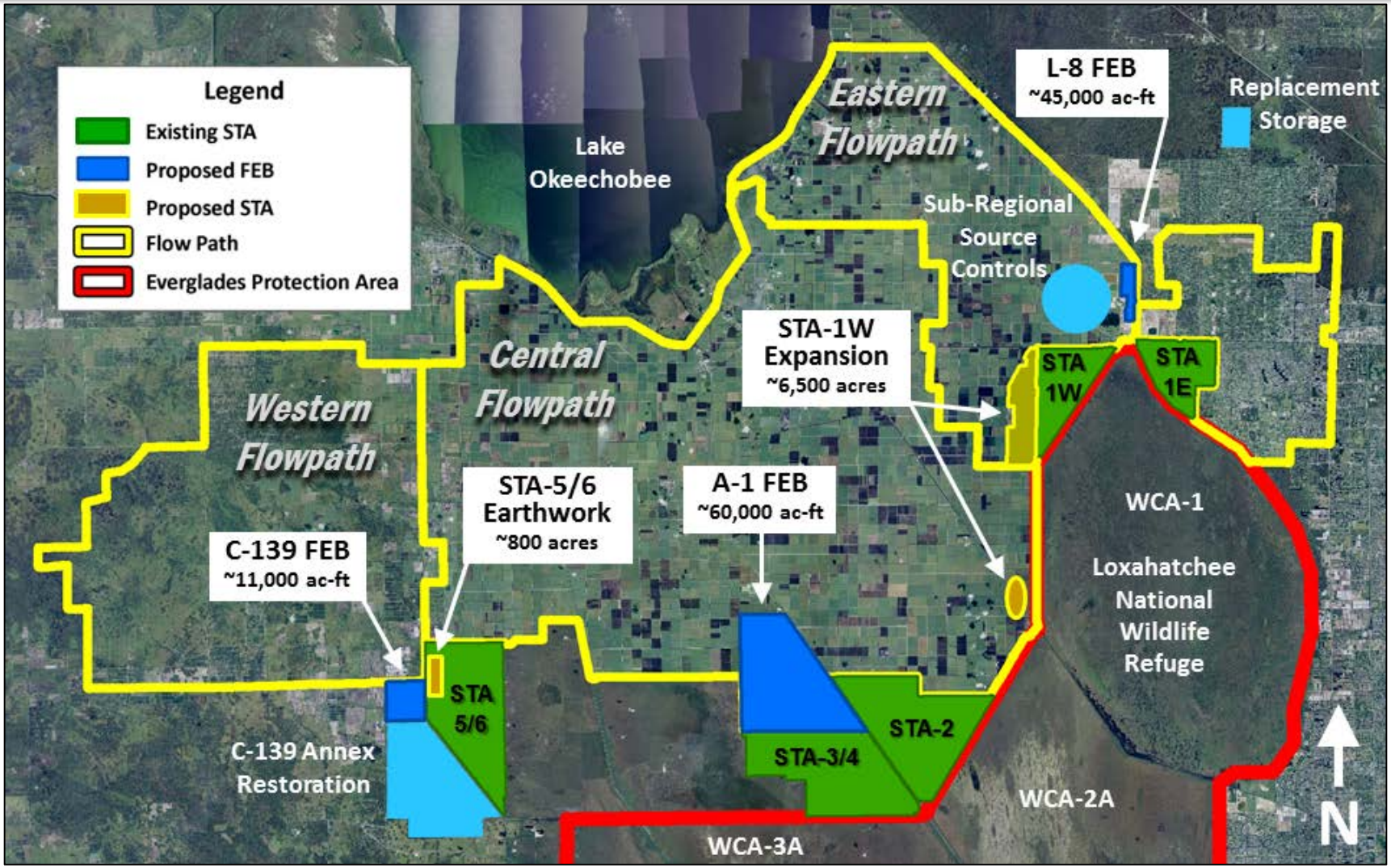
SFWMD Program and Project Update

South Florida Ecosystem Restoration Task Force Meeting

June 29, 2016

Ernie Marks, Division Director
Office of Everglades Policy & Coordination, SFWMD

Restoration Strategies Program



A-1 Flow Equalization Basin (FEB)

- 15,000 acres by 4 feet deep ≈ 60,000 acre-feet
- Status:
  - Operational Testing and Monitoring Phase (OTMP) began November 2015
  - Captured stormwater runoff that resulted from record-setting January 2016 rainfall

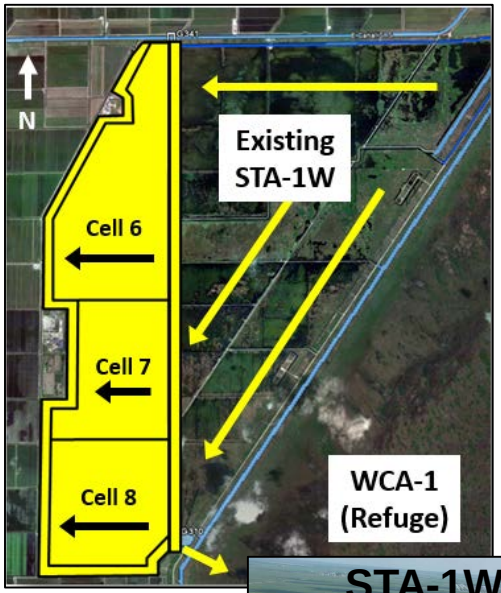
  - Captured a total of 220,000 acre-feet of water during Water Year (WY) 2016
  - Captured ~55,000 acre-feet of Lake Okeechobee water during WY2016
  - Reduced TP concentration from 90 to 35 parts per billion (ppb) during WY2016

L-8 Flow Equalization Basin (FEB)

87% complete

- 800 acres by 58 feet deep ≈ 45,000 acre-feet
- Status:
  - Construction ongoing
  - Outflow pump station (G-539) in testing phase
  - Completion expected October 2016 (consent order deadline is December 2016)

STA-1W Expansion



11% complete

- 5,900 acres of additional treatment wetland (on ~6,500 acres of land) in 2 phases
  - Expansion #1 ≈ 4,300 acres
  - Expansion #2 ≈ 1,600 acres
- Status:
  - Construction contract for Expansion #1 awarded November 2015
  - Completion expected December 2018
  - Land exchange with U.S. for Expansion #2 postponed until July 2016 (requested by U.S.)
  - Expansion #2 design to start by 2018

Conveyance Improvement Projects

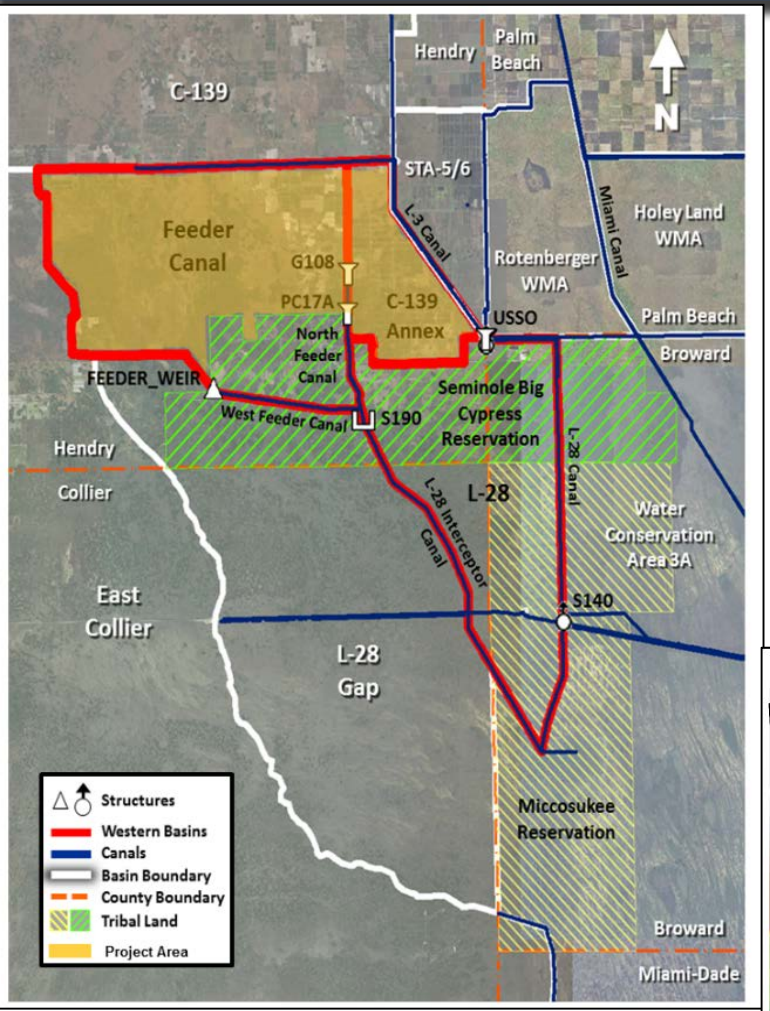
- S-5AS Modifications - complete
- L-8 Divide Structure (G-541)
- S-375 Expansion (G-716)
- G-341 Related Conveyance Improvements (Bolles East Canal)

42% complete

92% complete

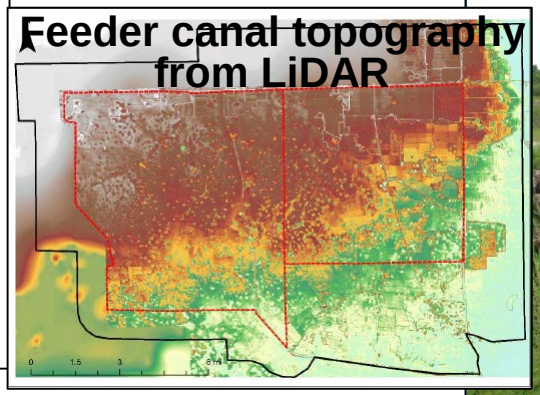
95% complete

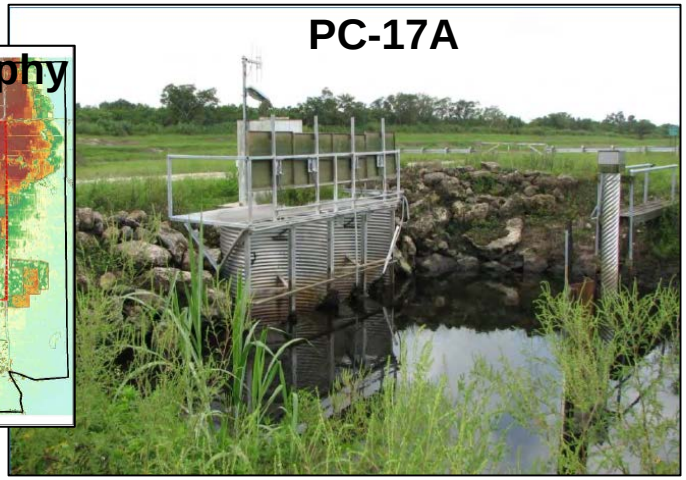
Western Basins Water Resource Evaluation



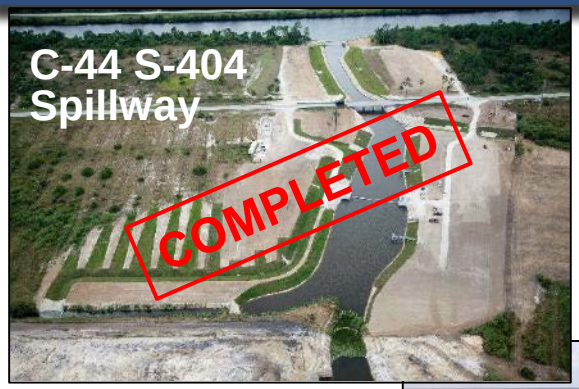
51% complete

- Status:
  - Identified potential sub-regional and local structural improvements to be modeled for water quality improvements
  - Developing an integrated surface water/groundwater model
  - Model calibration in process with limited data available





C-44 Reservoir/STA



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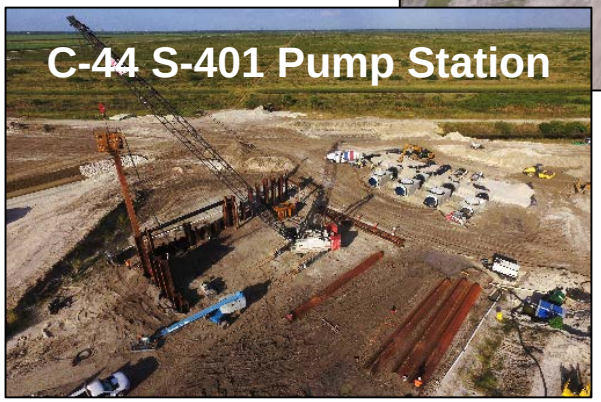
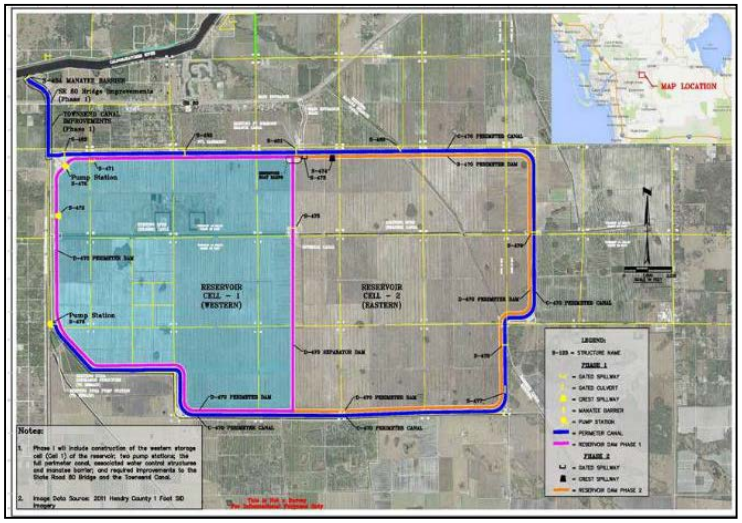


23% complete

- S-404 Spillway Status:
  - Construction complete
- STA Status:
  - Construction Start: October 2014
  - Construction Finish: September 2017
- Pump Station Status:
  - Construction Start: April 2015
  - Construction Finish: September 2018

C-43 Reservoir (Cell 1)



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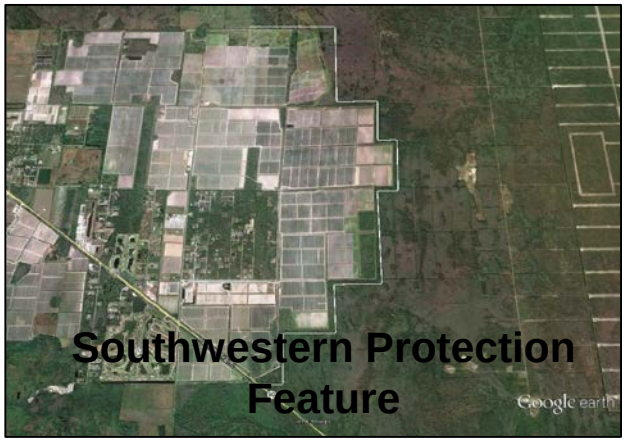
- Project is being delivered in 4 bid packages.
- Package 1: Preload & Demolition
  - Construction Start: November 2015
  - Construction Finish: July 2017
- Package 2: Pump Station S476
  - Construction Start: June 2016
  - Construction Finish: January 2018
- Package 3: Pump Station S470 and Inflow Works
  - Construction Start: September 2017
  - Construction Finish: April 2020
- Package 4: Embankment/Civil Works
  - Construction Start: September 2017 (Cell 1)
  - Construction Finish: February 2021 (Cell 1)

Picayune Strand Restoration Project

- Manatee Mitigation Feature Status:
  - Construction complete
  - Construction Start: May 2015
  - Construction Finish: March 2016
- Southwestern Protection Feature Status:
  - Initiating design level modeling to determine design criteria for levee and complete T&E Species Act consultation – Complete March 2017
  - Design Start: April 2017
  - Design Finish: March 2018
  - Construction Start: October 2018



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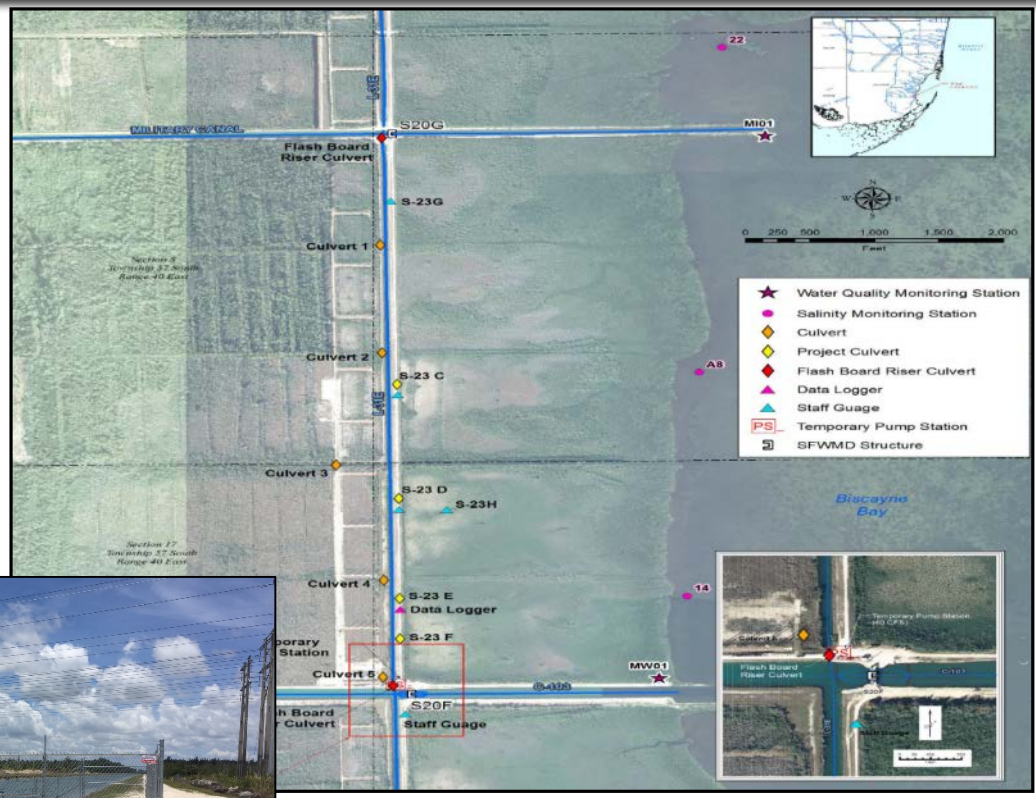
Biscayne Bay Coastal Wetlands: L31E Flow-way Interim Operations

- Status:
  - Pump installed March 2016
  - FPL power installation anticipated August 2016
  - Pump operational August 2016



75% complete

Interim pump installed at C-103/L31E Canals in Homestead, FL

Lakeside Ranch STA Phase 2 (South)

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- Status:
  - Contract Awarded: November 2015
  - Construction Start: January 2016
  - Construction Finish: January 2018
  - Levee construction has started

Central Everglades Planning Project: Old Tamiami Trail Removal

- Road removal and power line relocation project supported by ENP, FWC, FDEP, and USACE
- Status:
  - Remove six miles of old road
  - Relocate power lines
  - PPCA signed in May 2016

Intersection of Old Tamiami Trail and Tram Road

High Water Relief: L-28 Plugs

- Moved water from Water Conservation Area 3A into Big Cypress National Preserve as part of the February 2015 Emergency Order
  - Rebuilt six earthen plugs in the L-28 Canal
  - Authorized to temporarily deviate from standard operating protocols by operating the S-344 Structure
- Construction of the plugs is complete and the S-344 is operating per agreed-upon strategy

Plug # 6 (northernmost near S-344)

High Water Relief

Richmond Drive
Seepage Canal C-358

Removed Plug

Culverts

CERP Planning Efforts

Cypress trees in the Loxahatchee River Floodplain

Lake Okeechobee

- Loxahatchee River Watershed Restoration Project Status:
  - 30% design phase
  - Refinement of management measures, options and screening criteria started January 2015
- Planning efforts to start in July/August 2016
  - Lake Okeechobee Watershed Project
  - Western Everglades Restoration Program

New Capital O&M

- Prairie Canal
- Merritt Pump Station
- C-44 Intake Canal
- Kissimmee River Restoration Contract 15A

STA-1W Expansion #1 Construction