

Draft



SFWMD Program and Project Update

**South Florida Ecosystem Restoration
Working Group/ Science Coordination Group
Meeting**

November 28, 2018

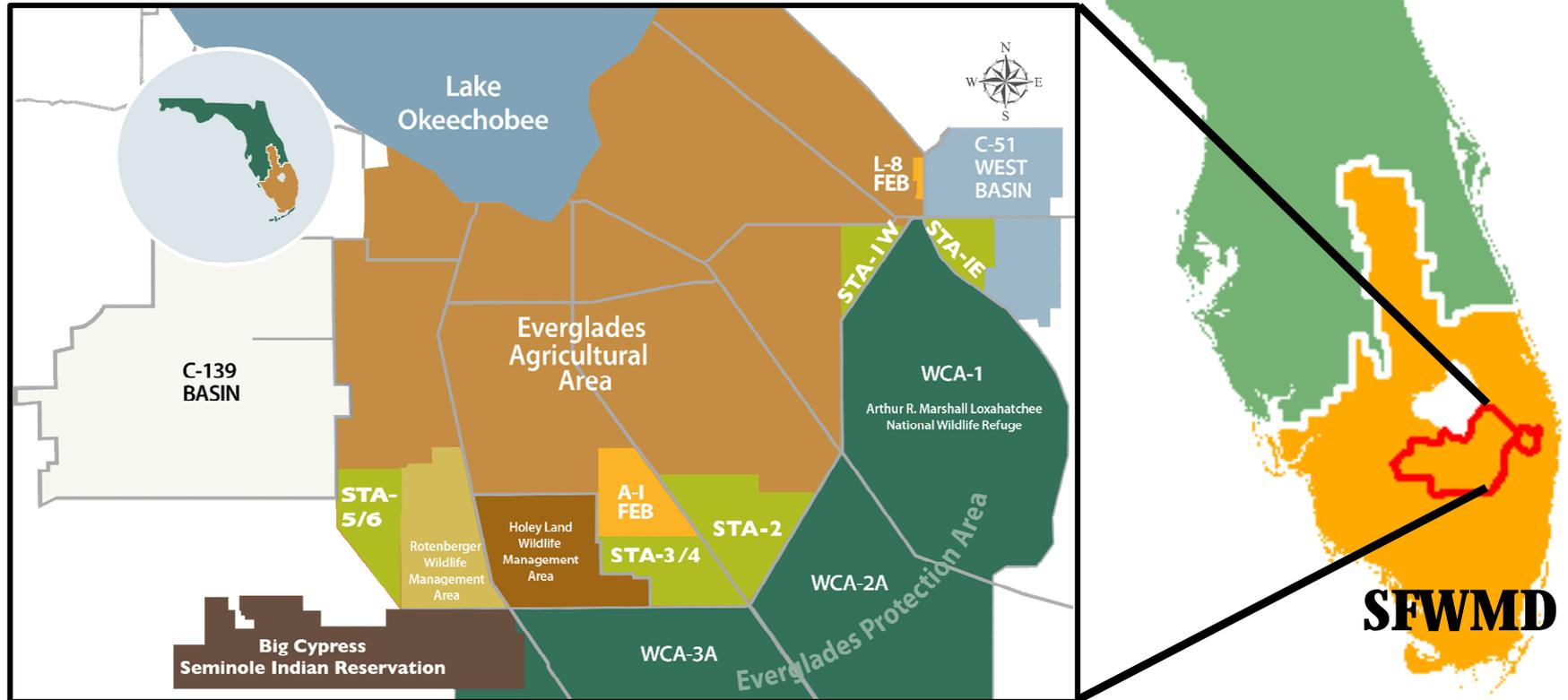
**Megan Jacoby, Principal Federal Policy Analyst
Everglades Policy & Coordination Division, SFWMD**

Stormwater Treatment Areas (STAs)

Draft

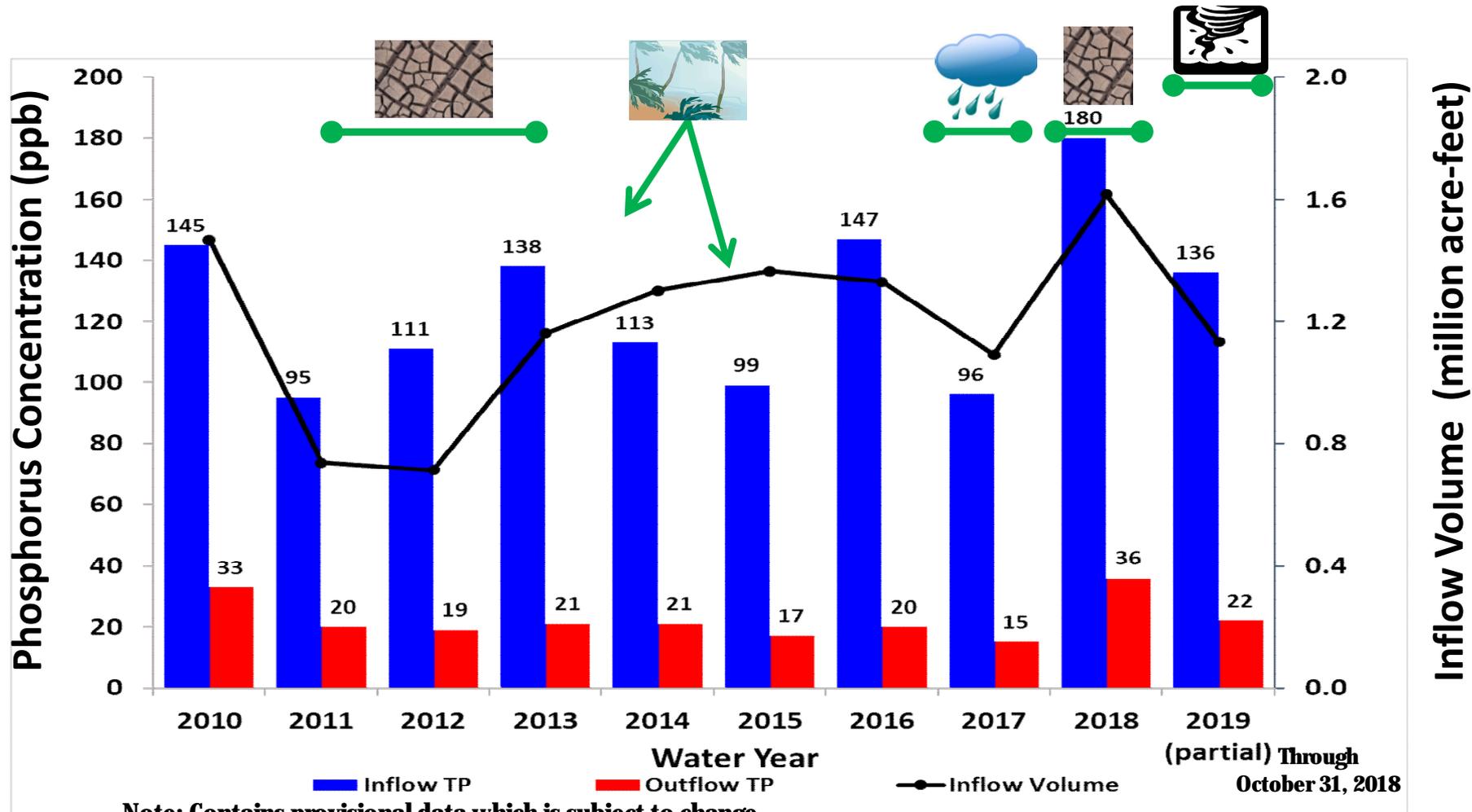
Permitted STA Area

- 1994: 4,000 acres**
- 1999: 9,000 acres**
- 2000: 18,000 acres**
- 2003: 35,000 acres**
- 2004: 40,000 acres**
- 2006: 45,000 acres**
- 2012: 57,000 acres**



STA Performance: 2010-2019

Draft



Note: Contains provisional data which is subject to change

Restoration Strategies: Key Projects

Draft

2012

§ 57,000 ac of STA

2012-2016

§ L-8 FEB (45,000 ac-ft)
 § A-1 FEB (60,000 ac-ft)

2013-2018

§ STA (4,300 ac)

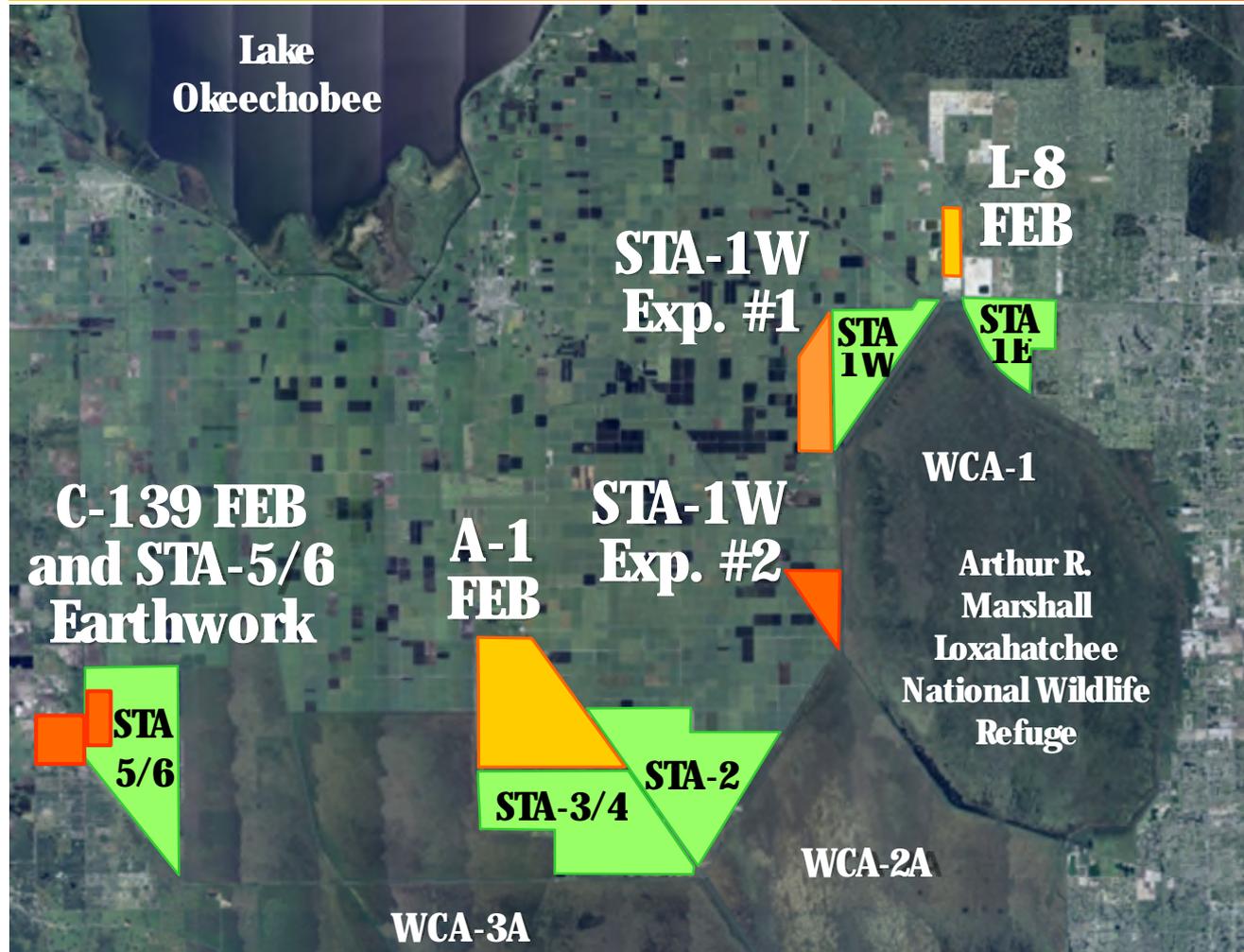
2018-2025

§ STA (1,600 ac)
 § C-139 FEB (11,000 ac-ft)
 § STA Earthwork (800 ac)

2012-2016

2013-2018

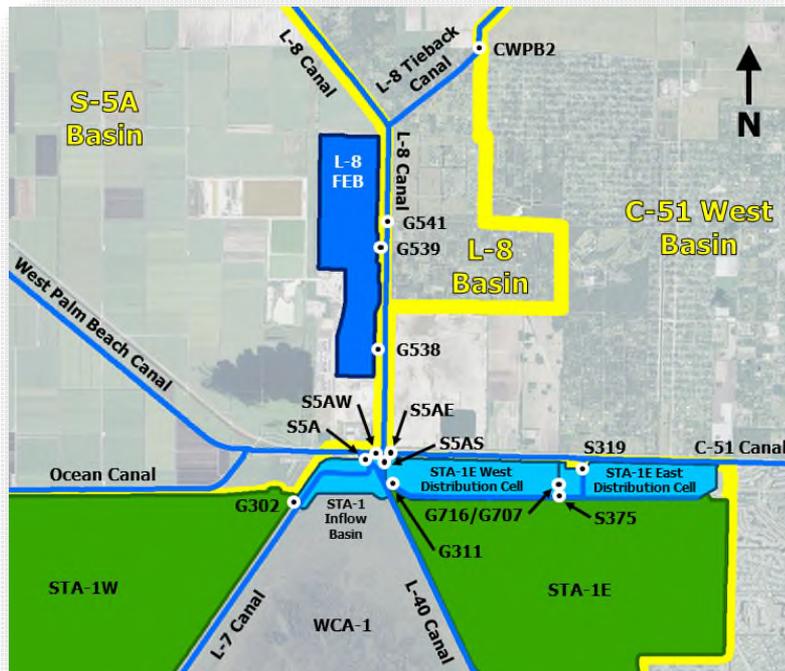
2018-2025



L-8 Flow Equalization Basin (FEB) (Eastern Flowpath)

Draft

- § Designed to improve performance of STA-1E and STA-1W
- § Unique geology allows for deep reservoir
- § 800 acres by 58 feet deep = ~ 45,000 acre-feet of storage
- § Completed June 2017



S-375 Expansion (G-716) (Eastern Flowpath)

Draft

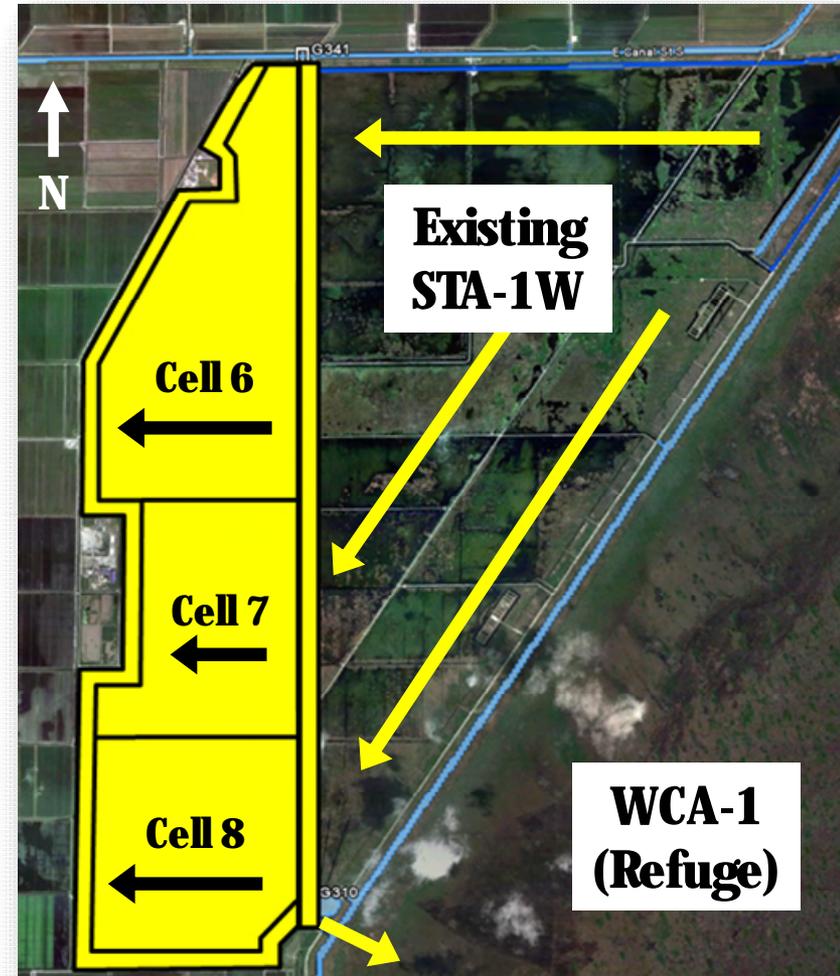
- § Enables additional flow to be conveyed to L-8 FEB
- § Completed April 2017



STA-1W Expansion #1 (Eastern Flowpath)

Draft

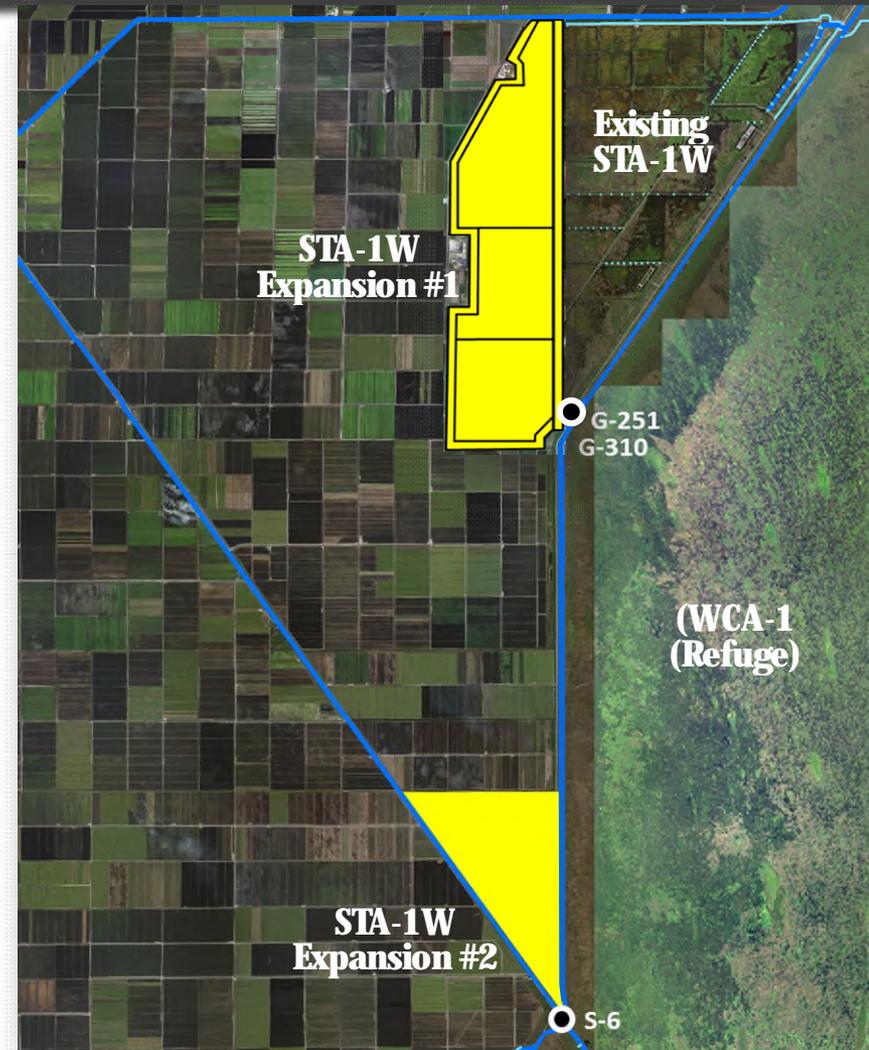
- § Designed to assist STA-1W and STA-1E
- § 4,300 acres of additional stormwater treatment area
- § Completion of construction expected December 2018
- § Environmental remediation of ~2,000 acre required to minimize potential risk of ecological impacts



STA-1W Expansion #2 (Eastern Flowpath)

Draft

- § Designed to assist STA-1W and STA-1E
- § 1,600 acres of additional treatment area
- § Land exchange with federal government to acquire 1,327 acres completed January 2018
- § Total SFWMD-owned land for project is ~2,127 acres
- § Design began October 2018



A-1 Flow Equalization Basin (Central Flowpath)

Draft

- § Designed to improve performance of **STA-2** and **STA-3/4**
- § 15,000 acres by 4 feet deep = ~ **60,000 acre-feet** of storage
- § Completed July 2015
- § Operational Testing and Monitoring Phase complete July 2018

Aug. 2015 – Nov. 2017

Inflow Volume
838,000 acre-feet

Inflow P Conc.
97 ppb

Outflow P Conc.
19 ppb

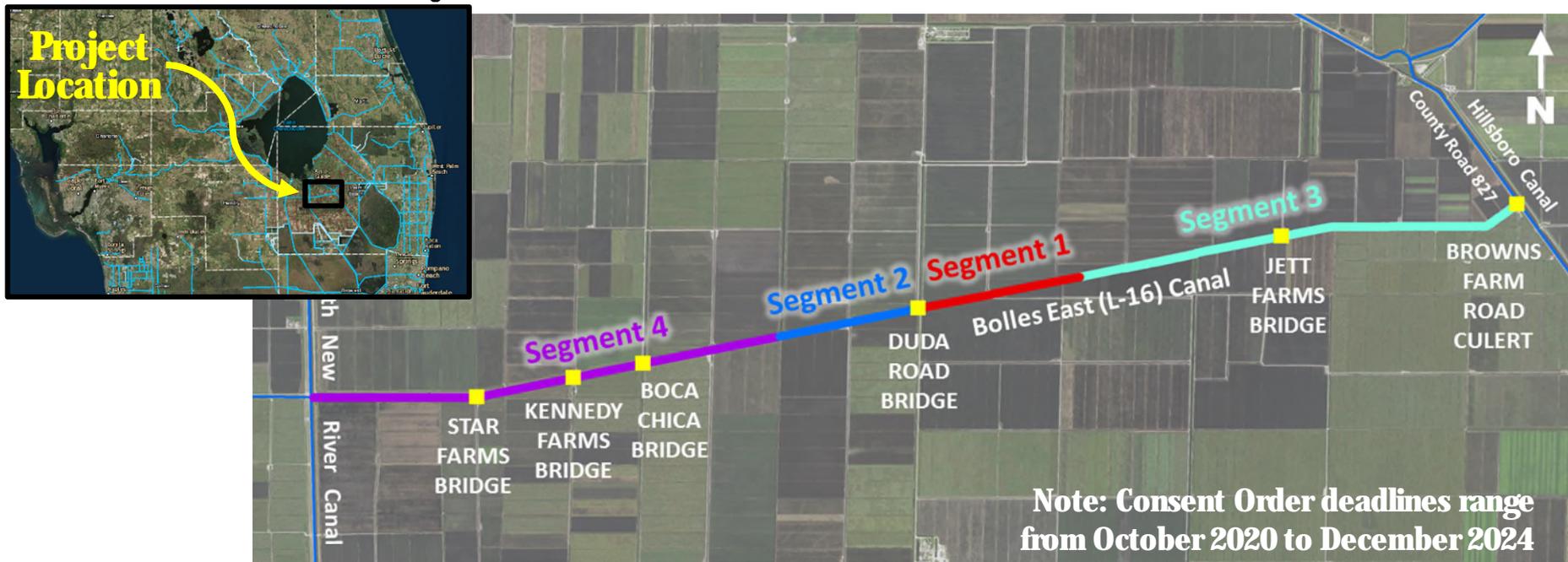
P Load Reduction
80%



G-341 Related Conveyance Improvements (Central Flowpath)

Draft

- § Bolles East (L-16) Canal Segments 1 and 2 (~2.2 miles) and Duda Road Bridge construction complete
- § Segment 3 (~3.2 miles) is 89% complete; completion expected February 2019; Segment 4 design ongoing; construction expected to start February 2019



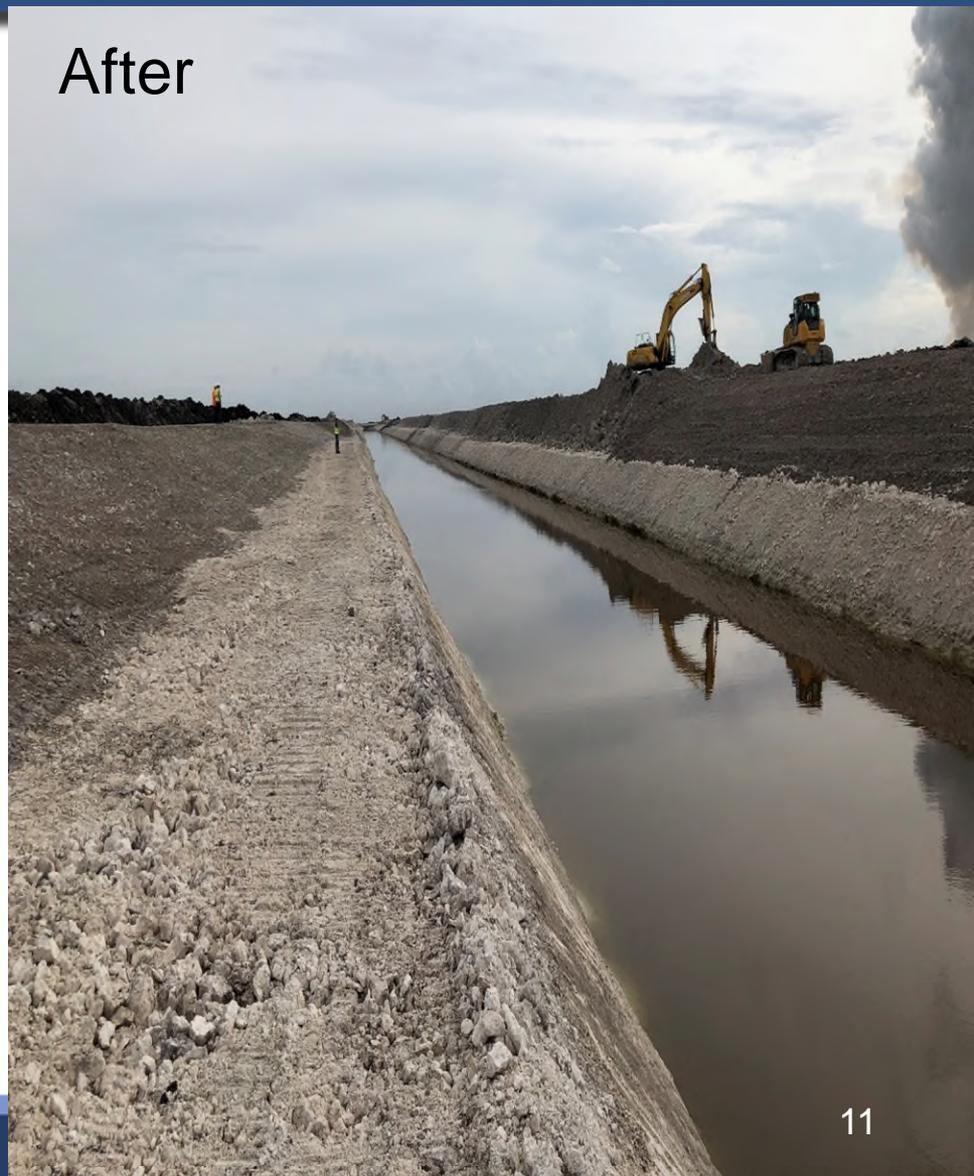
G-341 Related Conveyance Improvements – Bolles East Canal

Draft

Before



After



C-139 Annex (Western Flowpath)

Draft

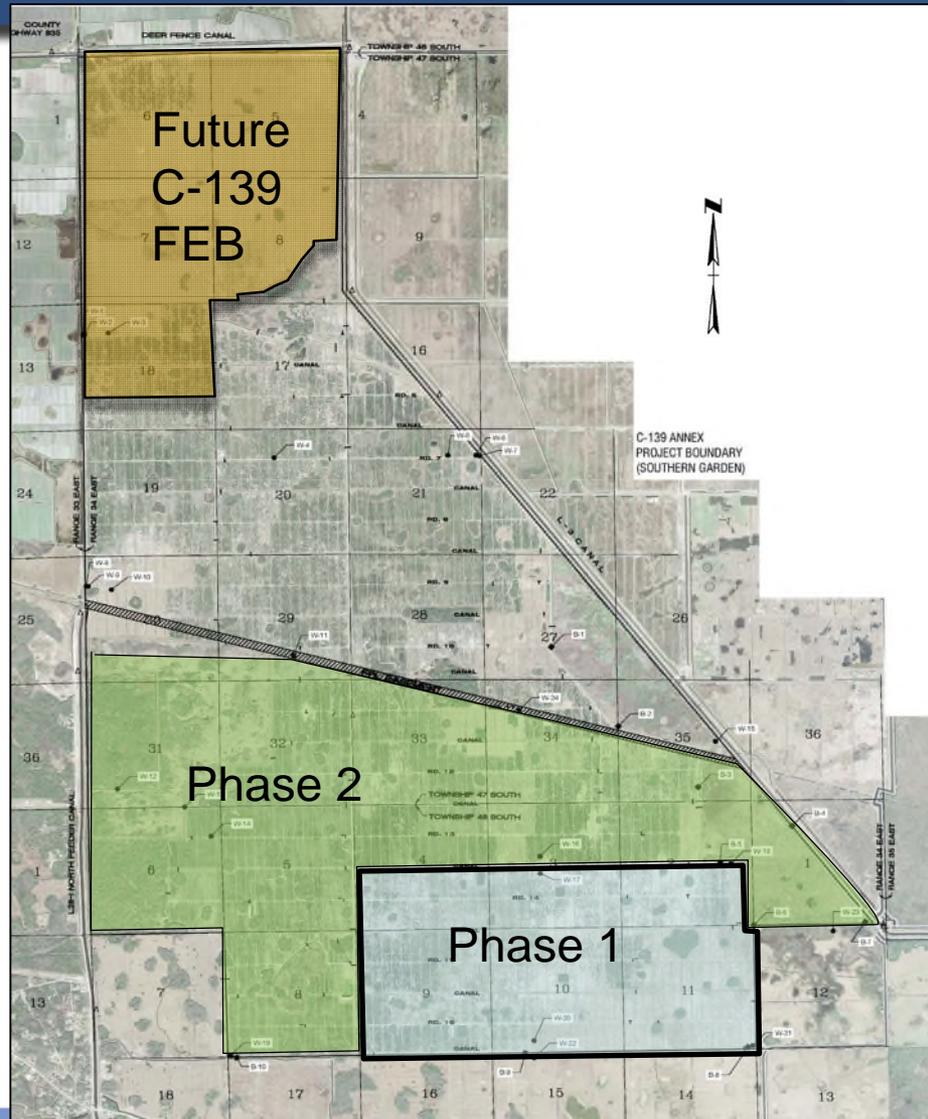
§ C-139 Annex FEB

§ Design activities will
began in October 2018

§ STA 5/6 Earthwork

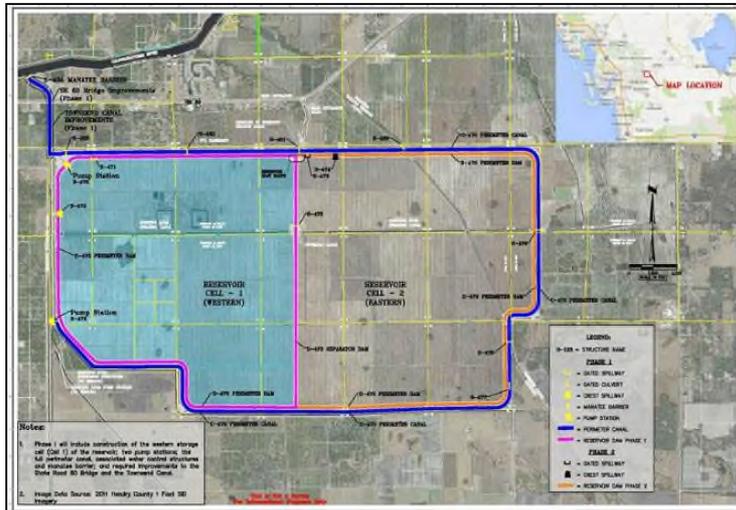
§ Pre-design site
assessments for internal
improvements are
ongoing

§ C-139 Annex Restoration
(not part of Restoration
Strategies)



C-43 Reservoir

Draft



§ 10,500 acres - 170,000 ac-ft reservoir to improve the timing, quantity and quality of freshwater flows to the Caloosahatchee River and Estuary

§ State began construction in 2015

§ Package 1: Preload and Demolition – Complete

§ Package 2: Construction of S-476 (195 cfs) Pump Station substantial completion – Fall 2018

§ Package 3: S-470 Pump Station substantial completion - Spring 2022

§ Package 4: Civil Works in intermediate design

§ Both Cell 1 and 2 are scheduled for substantial completion by late 2022



C-44 Reservoir/STA

Draft



§ Construction completion expected 2021:

§ SFWMD Projects:

§ S-404 Spillway - complete

§ Pump Station – complete

§ STA – under construction

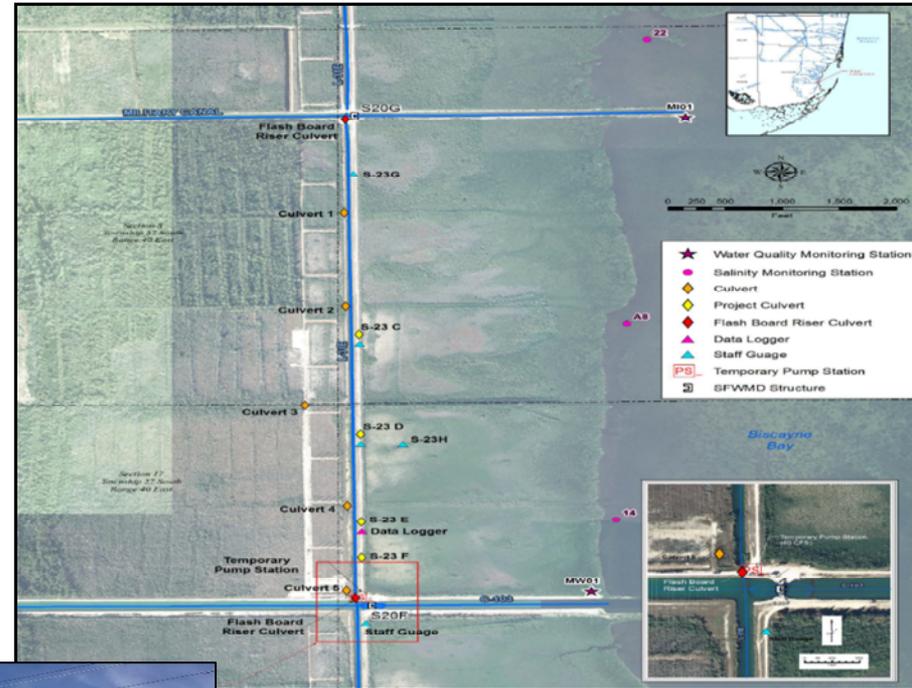
§ USACE Project:

§ Reservoir – under construction



Biscayne Bay Coastal Wetlands Phase 1 Draft

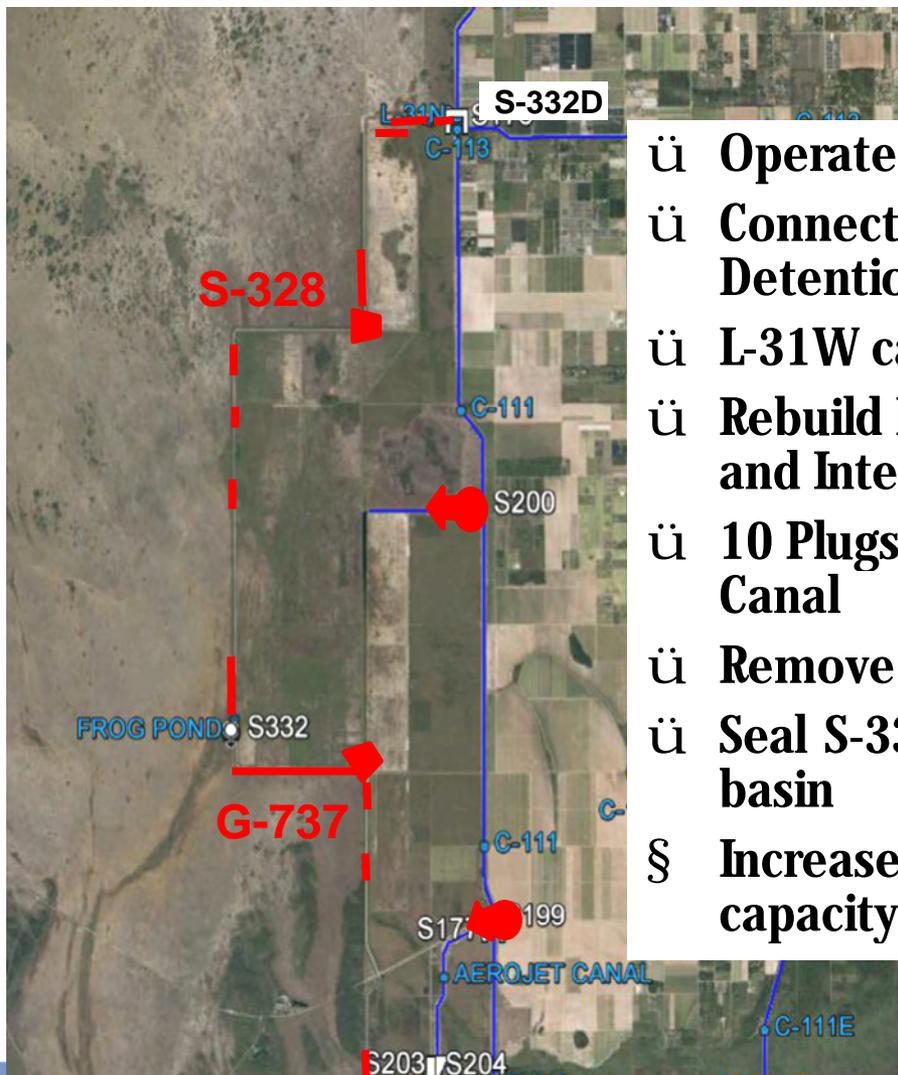
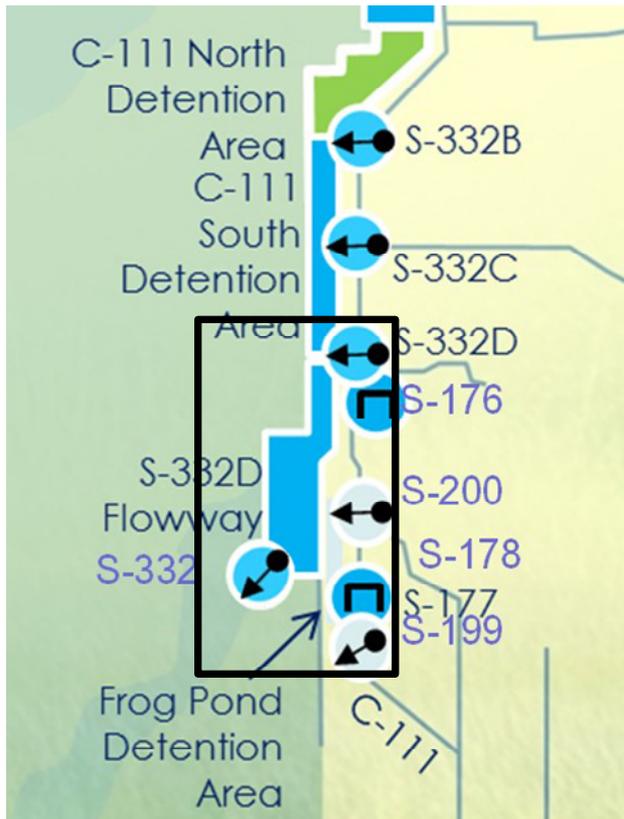
- § L-31E Tidal Restoration Components - complete
- § Deering Estate – complete
- § L-31E:
 - § Interim Pump operations – August 2017
 - § Remaining culverts - complete
 - § 2nd interim pump under development
- § Cutler Wetlands reinitiated design update October 2019



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

Project Features to Move Water South to Florida Bay

Draft



- ü Operate S-328
- ü Connect Frog Pond Detention Area to L-31W canal (G-737)
- ü Rebuild L-31W levee and Integral Weir
- ü 10 Plugs in L-31W Canal
- ü Remove S-327 weir
- ü Seal S-332D discharge basin
- § Increase pump capacity



Discussion