# SFWMD Program and Project Update

### Working Group/ Science Coordination Group Meeting February 25, 2020

Megan Jacoby, Principal Federal Policy Analyst Ecosystem Restoration & Capital Projects



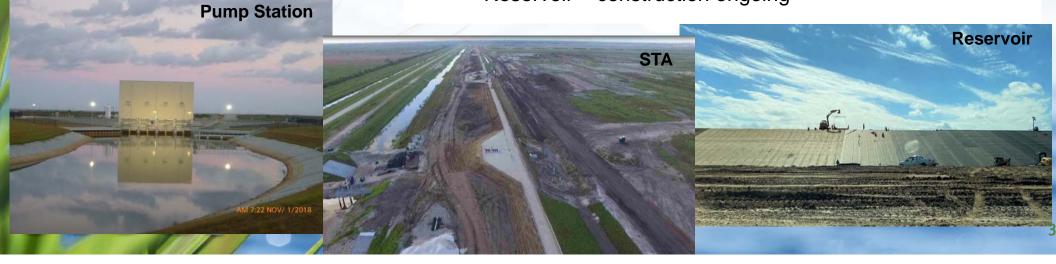
# SOUTH FLORIDA ECOSYSTEM RESTORATION PROJECTS

# C-44 Reservoir & STA



### SFWMD Projects:

- S-404 Spillway complete
- Pump Station complete
- STA construction schedule
  - Cells 1-3 complete
  - Cells 4-6 in 2020
- > USACE Project:
  - Reservoir construction ongoing



# C-43 Reservoir

- State began construction in 2015
  - Package 1: Preload and Demolition Complete
  - Package 2: Construction of S-476 (195 cfs) Pump Station completion April 2019
  - Package 3: S-470 (1500 cfs) Pump Station completion Spring 2022
  - Package 4: Civil works completion 2023



# **Central Everglades Planning Project**

# Old Tamiami Trail Removal

- Under construction
- Expected completion January 2022
- Powerline removal expected May 2020

## S-333N

- Under construction
- Expected completion June 2020



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT CEPP - Everglades Agricultural Area STA

### Canal Conveyance Improvements

- Expedited site investigations of Miami and North New River Canal Conveyance
- Inflow/ Outflow Canal contract out for bid
- Construction expected to begin in May/June 2020
  - Awaiting completion of Follow-up Report and permits
- Stormwater Treatment Area
  - Expedited design of the A-2 STA
  - STA Preliminary Design on track for March 2020
  - Construction expected January 2021



# **Biscayne Bay Coastal Wetlands**

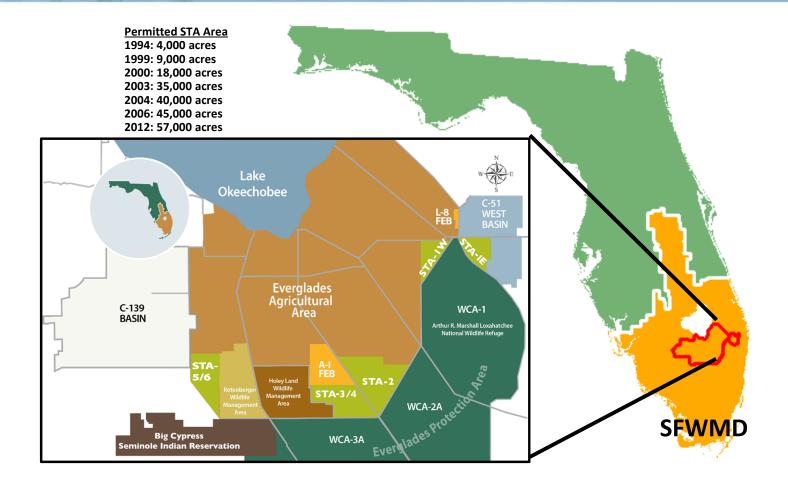
- Deering Estate complete
- ≻ L-31E:
  - L-31E culverts complete
  - Design of S-709 complete
  - Design of remaining features underway
- Cutler Wetlands design update – underway
  - Survey, geotech and modeling
- Biscayne Bay and Southeastern Everglades (BBSEER) Project Management Plan under development



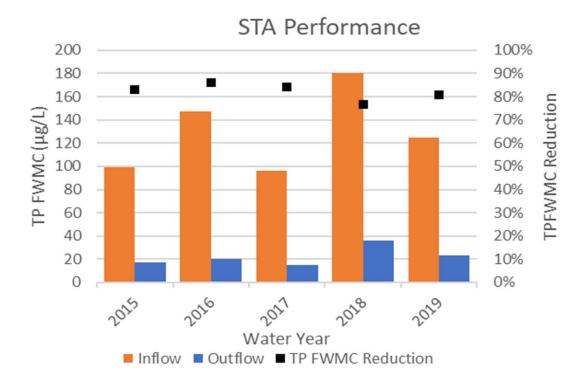
# **STATE PROGRAMS**



## Stormwater Treatment Areas (STAs)



# All STAs Performance Comparison by Water Year (WY)

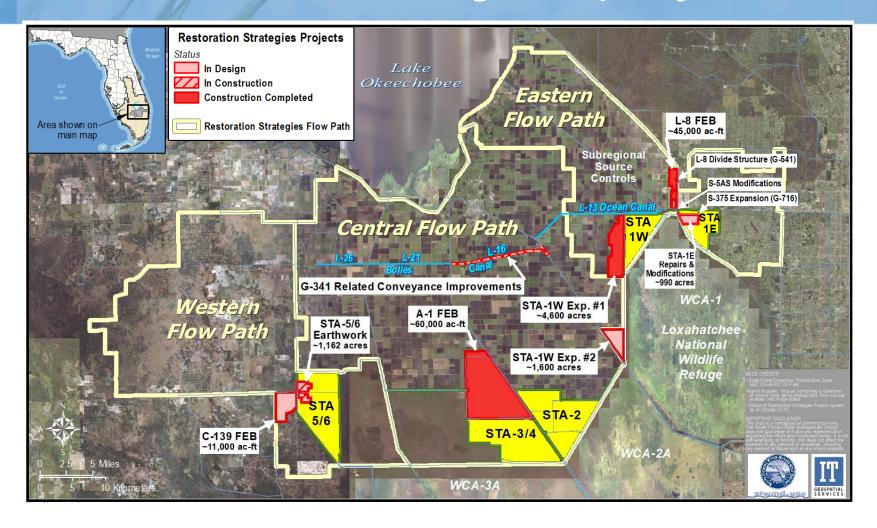


	WY2015	WY2016	WY2017	WY2018	WY2019
Total Inflow (K acre-feet)	1,364	1,329	1,090	1,616	1,438
Lake Releases (K acre-feet)	586	291	249	160	470

Phosphorus reduction throughout all STAs is ~80%

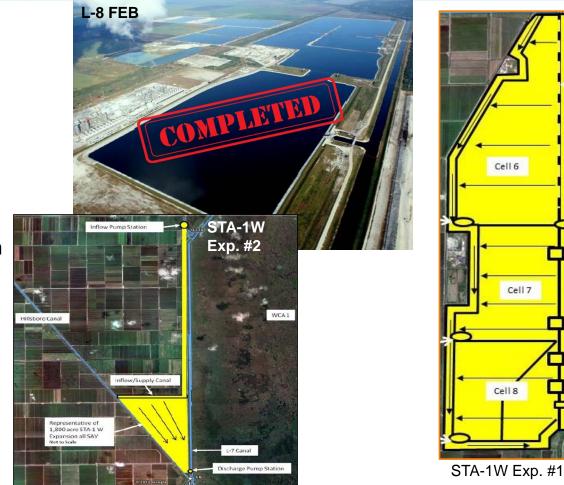
Quantity and timing of water delivery can impact STA performance

# **Restoration Strategies: Key Projects**



# **RS - Eastern Flowpath**

- > 2 projects complete
  - L-8 FEB
  - S-375 Expansion
- 4 projects underway
  - STA-1E Repair and Modification flooding and optimization period complete by November 2022
  - STA-1W Expansion #1 construction complete by December 2020
  - STA-1W Expansion #2 design complete by July 2020
  - G-341 Related Conveyance Improvements – Sections 1 & 2 complete, Sections 3 & 4 under construction



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# **RS - Central Flowpath**

## > A-1 FEB

Operational Testing and Monitoring Period – complete July 2018



# **RS - Western Flowpath**



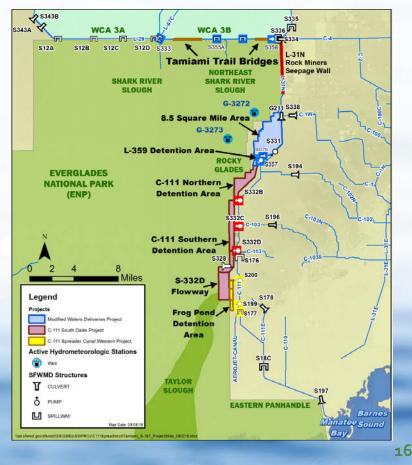
# **FLOOD CONTROL AND RESILIENCY**

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# South Dade Curtain Wall Project

### Flood control feature with restoration benefits

- Curtain wall or seepage barrier extending south from existing feature
- Previously evaluated as part of multiple studies
- Data acquisition to reduce uncertainty plus public planning process funded to start in current year



# **Recent History of Evaluation**

- CEPP recommended a curtain wall to manage seepage from increased stages in ENP
  - Meant to augment existing rock miners wall
  - Acknowledged need for additional analysis to address uncertainties
- SFWMD South Dade Initiative recommended curtain wall as a long-term solution
  - Identified as a means of securing the environmental benefits of restoration projects while simultaneously improving conditions in developed areas
  - Smaller wall segment focused on area south of S-331
- Curtain wall was proposed as a flood control feature

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 Stand alone, flood control component of a comprehensive flood control strategy that includes operations and addresses seasonal flooding

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Larger scope project that extends from the existing wall segment south to S-177