

SFWMD Program & Project Update

Joint Working Group and Science
Coordination Group Meeting
July 7, 2022

Mindy Parrott
Principal Federal Policy Analyst
Restoration Planning Bureau
Ecosystem Restoration & Capital Projects

SFWMD CERP & Restoration Strategies Projects

Planning

- Lake Okeechobee Watershed Restoration Project (LOWRP)
- Western Everglades Restoration Project (WERP)
- Biscayne Bay & Southeastern Everglades Ecosystem Restoration (BBSEER)

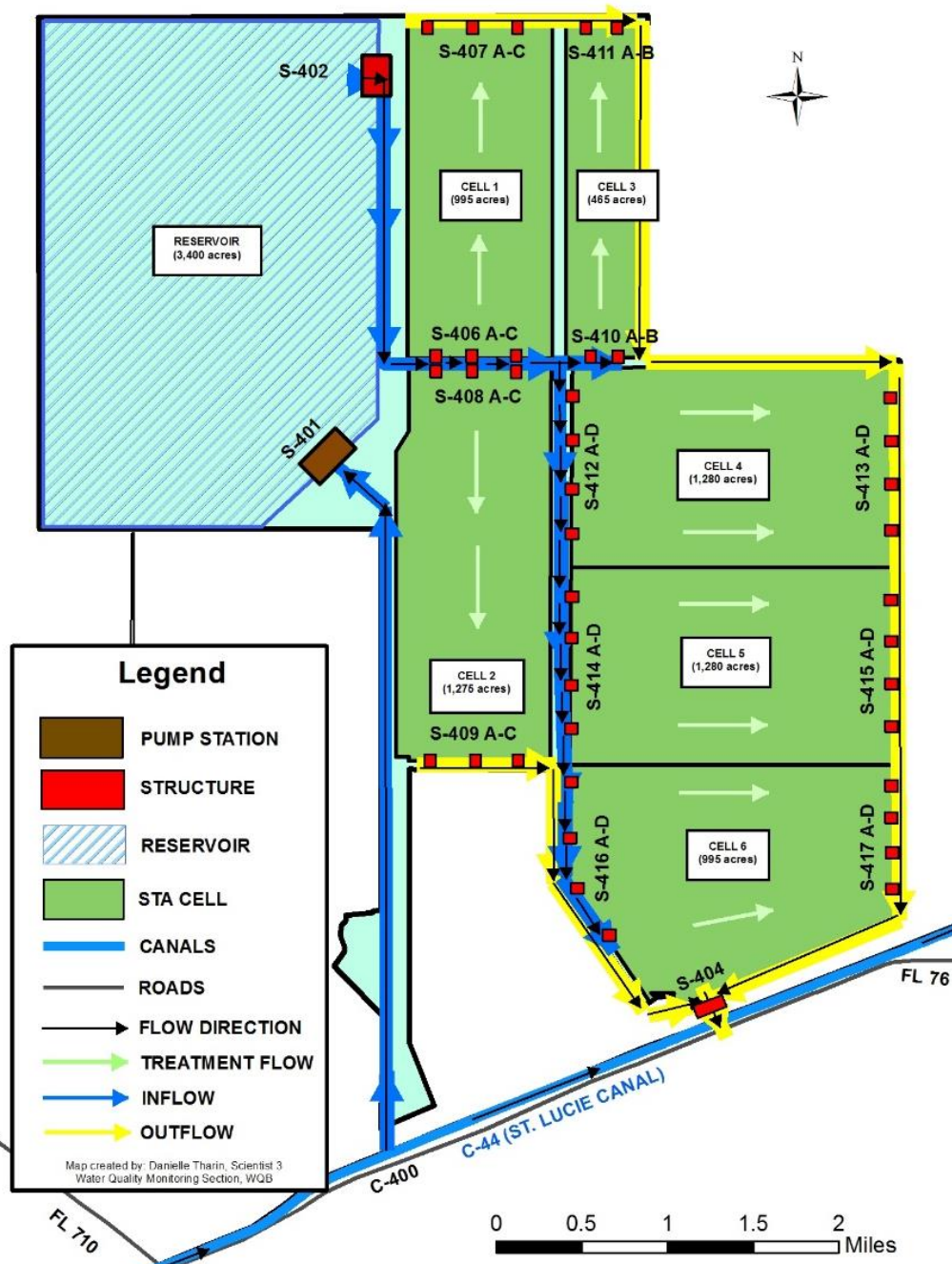
Design

- IRL-S C-23 to C-44 Interconnect
- IRL-S C-25 Reservoir and STA
- LOWRP ASR Wells and Treatment
- BBCW Phase 1 Cutler Flowway
- LRWRP Loxahatchee River – Flowway 3
- CEPP EAA Conveyance Improvements
- CEPP North: S-620
- CEPP New Water Seepage Cutoff Wall
- RS Bolles East Canal Conveyance Segment 5
- WERP L-28S Culverts & Conveyance

Construction

- C-44 Reservoir & STA- OTMP
- C-43 Reservoir
- EAA A2 STA & I/O Canal
- STA-1W Expansion #2
- C-139 FEB
- STA-1W Refurbishments
- STA-2 Refurbishments
- 8.5 SMA Cutoff Wall

IRL-S C-44 Reservoir and STA



- Operational Testing & Monitoring Phase
 - STA complete – January 2021
 - Reservoir complete – September 2021
 - Start reservoir filling – January 2022
 - Operational Testing Start – May 2022
 - Reservoir turnover to SFWMD – November 2023

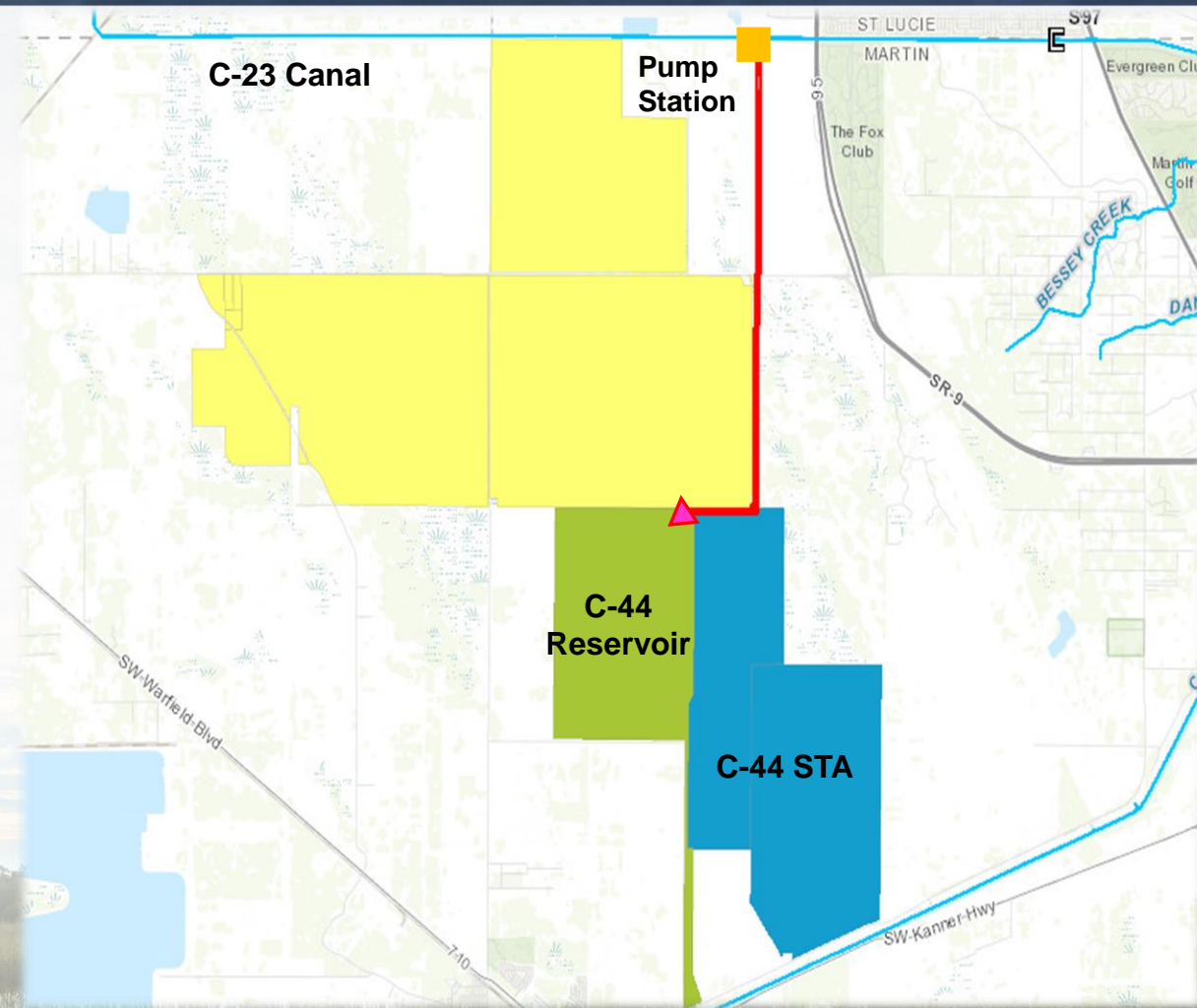


IRL-S C-23 to C-44 Interconnect

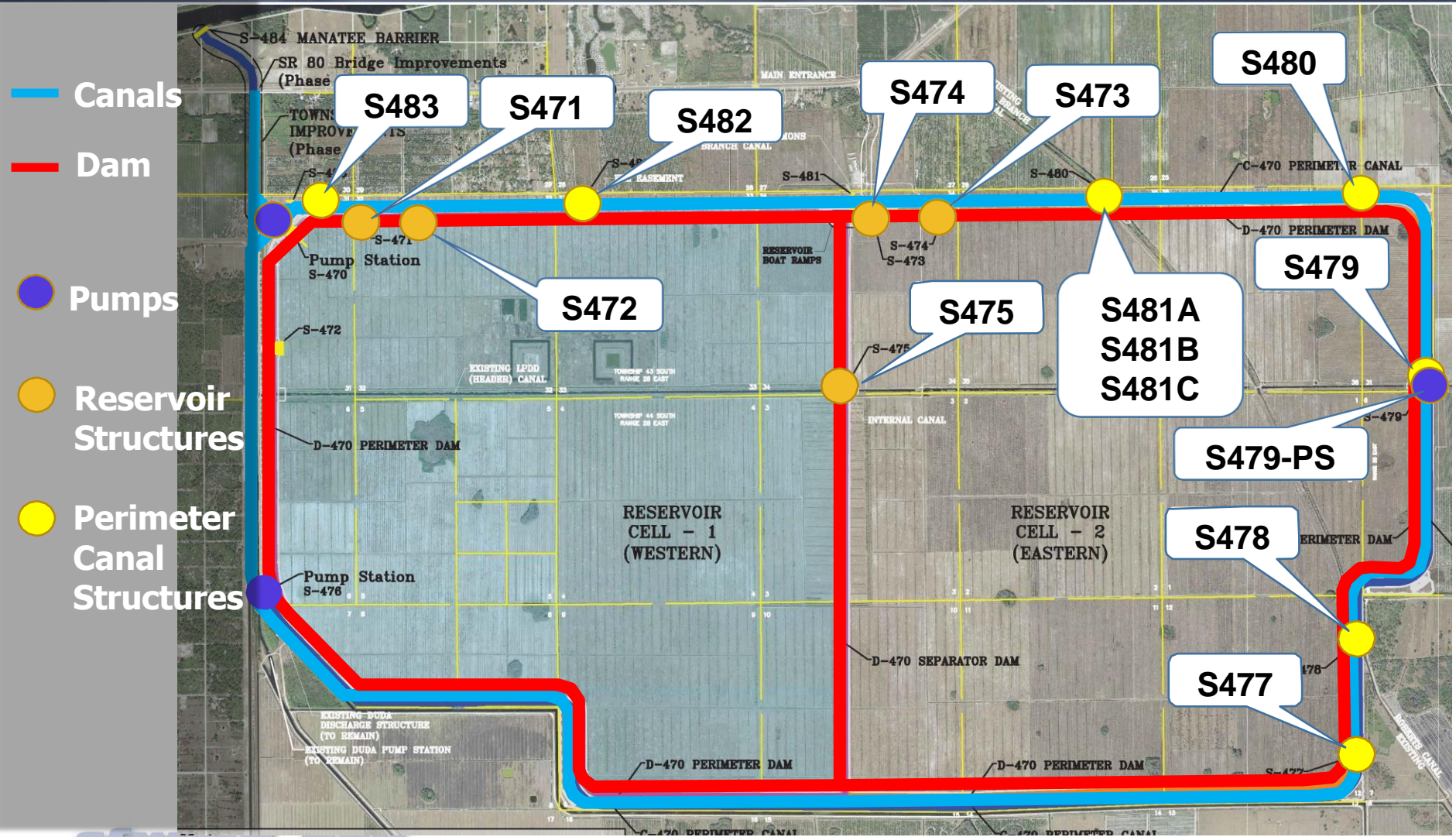
- Diverts harmful C-23 Canal discharges away from the middle St. Lucie Estuary to C-44 Reservoir and STA
- Brings flows to estuary closer to natural patterns
- Improves water quality in the estuary

Schedule:

- Final Design - August 2022
- Construction Award – **November 2022**



C-43 West Basin Storage Reservoir



Features

- 2-Cell Reservoir
 - 10,500 Acres
 - 170,000 ac-ft of storage
 - Depth ranging from 15' – 25'

- 40% Complete
- Completion- September 2024

C-43 West Basin Storage Reservoir

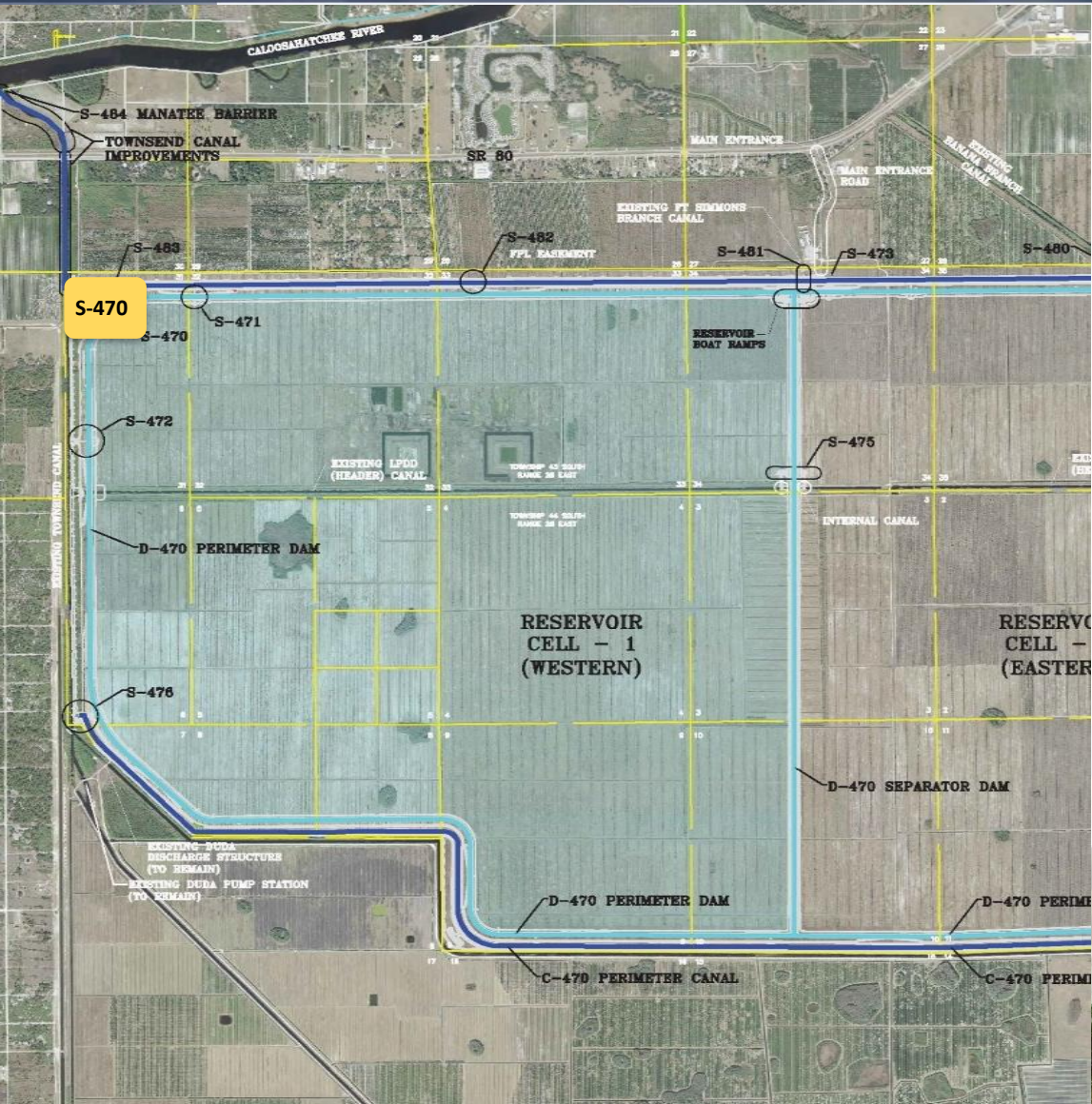


Dam embankment up to elevation 47 feet



S-477 Western Perimeter Canal Structure

C-43 West Basin Storage Reservoir - Inflow Pump Station



S-470 Nearing Completion – 2022



Caloosahatchee Reservoir Water Quality Component

Feasibility Study and Siting Evaluation December 2020:

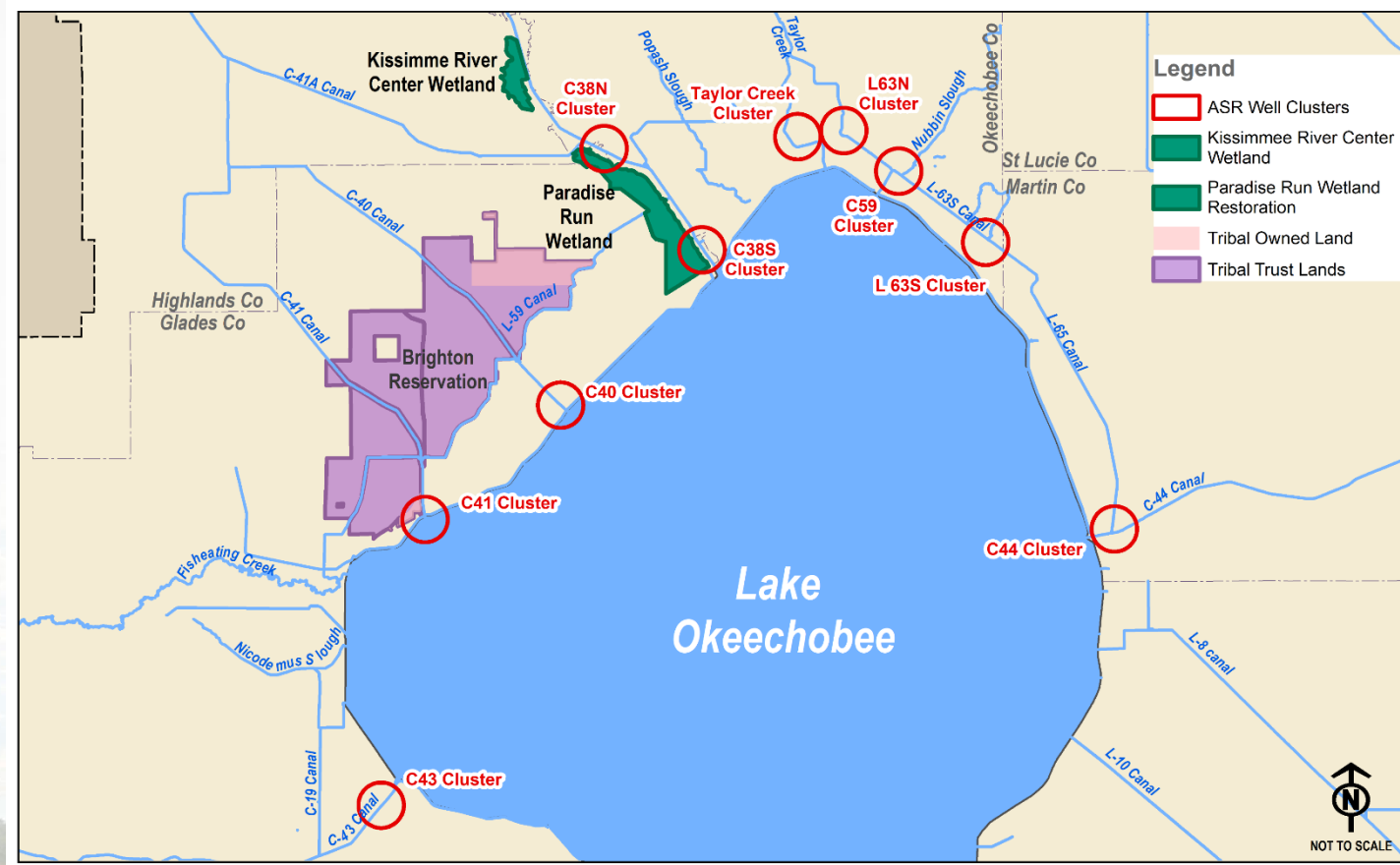
- In-reservoir alum treatment was the most cost-effective and could be applied at reservoir inflow pump station
- **Design & Construction**
 - Design kicked-off April 2021
 - Anticipate USACE 408 authorization and RTA Design Plans by the end of 2022
 - Procurement and installation in 2023
 - Obtain operations permit in 2024 concurrent with the C-43 reservoir operations permit
- **Northern Everglades & Estuaries Project**-separate from CERP



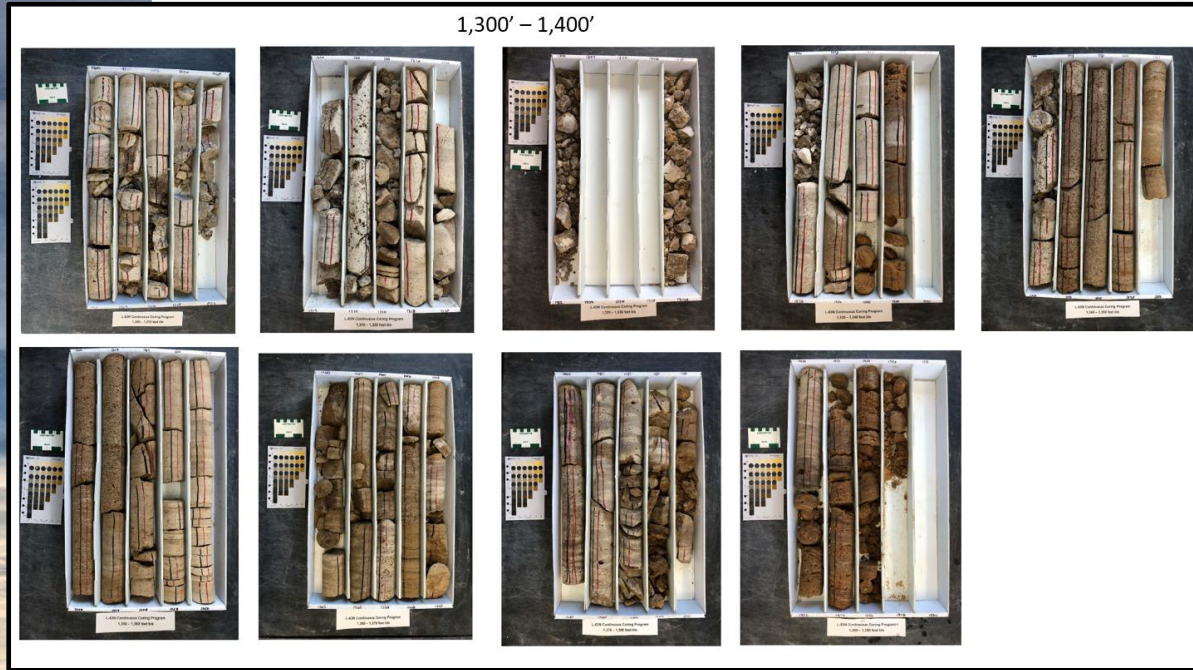
LOWRP - Aquifer Storage and Recovery

Phased implementation and Science Plan to address ASR uncertainties:

- Reactivate existing wells
- Exploratory and test wells
- Treatment technology evaluation and design
- Build out of well clusters and treatment facilities



LOWRP - Aquifer Storage and Recovery

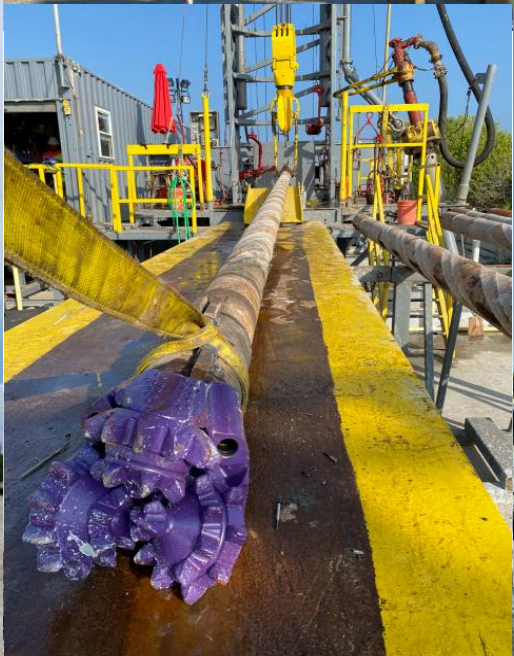
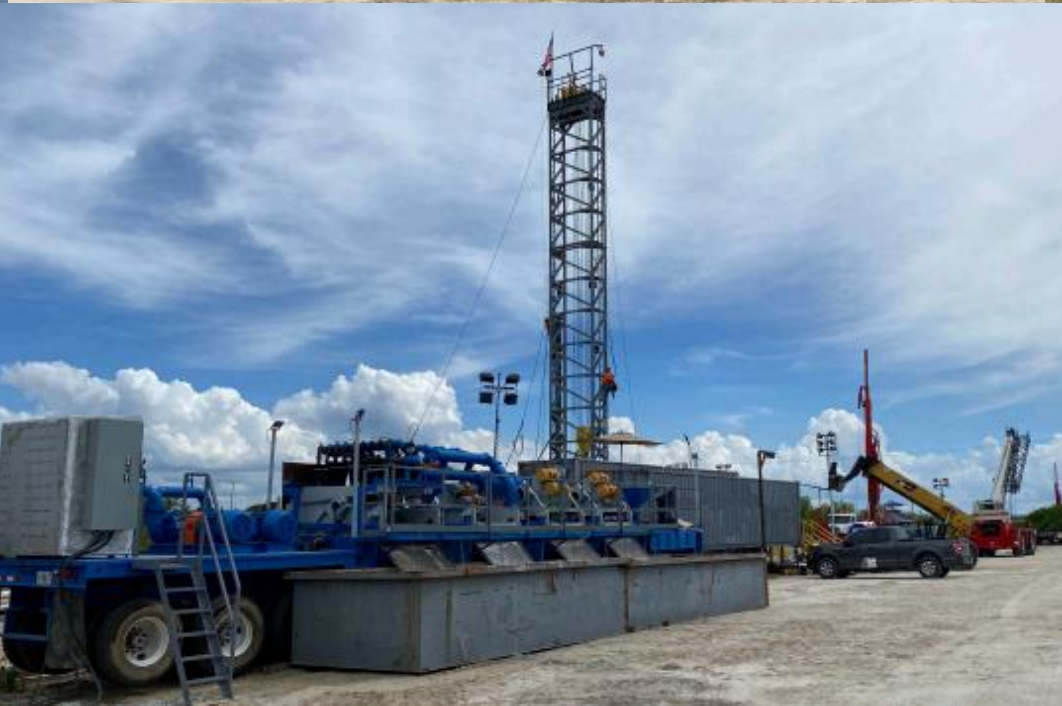


Continuous Cores



Treatment Technology- Proof of Concept Testing

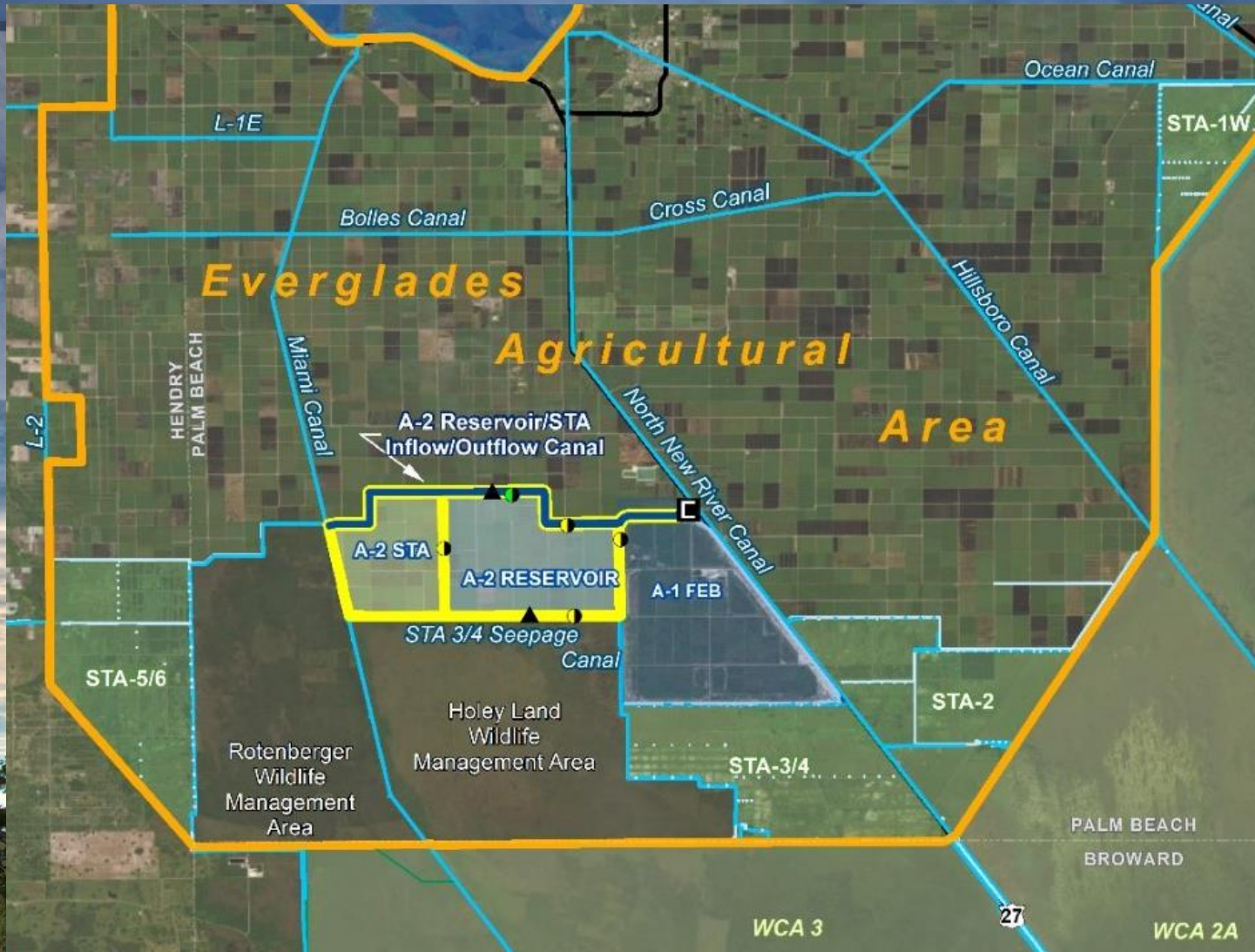
Test/Exploratory Wells at C38N and C38S



2022 ASR Science Plan

- ASR Peer Review Technical Panel Workshop held June 15, 2022
- Workshop materials and recording available at www.sfwmd.gov/asr
- Next Steps:
 - Peer Review Panel Report due July 15
 - Revised Draft Science Plan August 30
 - Reconvene with Peer Review Technical Panel
 - Science Plan Public Review in mid-September
 - Final 2022 ASR Science Plan expected in November

CEPP EAA: A-2 Reservoir & STA



- Construction Began April 2020
- Stormwater Treatment Area (STA) Inflow/Outflow Canal -55% Complete
- STA Construction
 - Completion December 2023
- Canal Conveyance Improvements
 - Design Advancing
- Reservoir (USACE Lead)
 - Design Advancing

CEPP EAA: A-2 Reservoir & STA



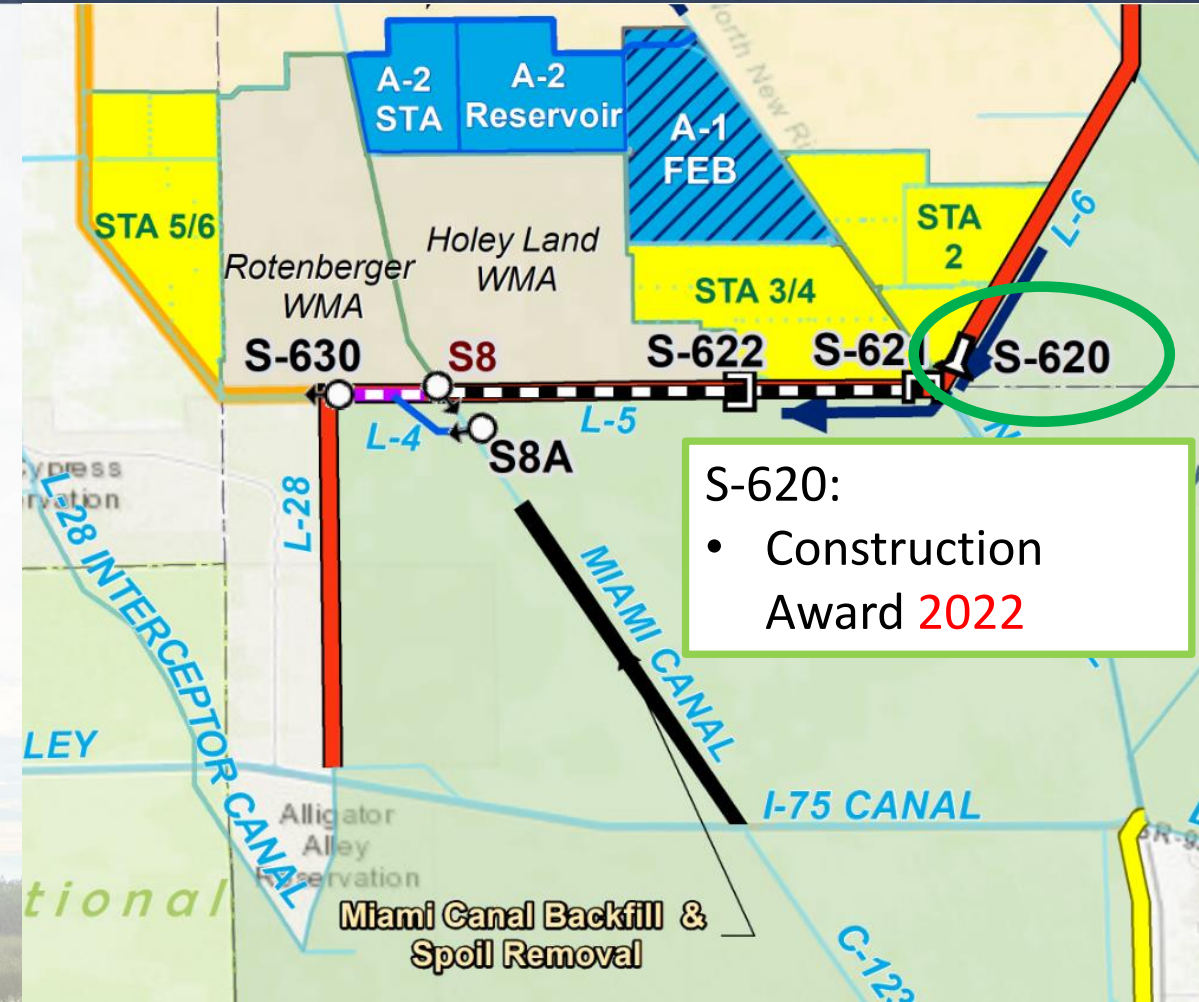
Inflow/Outflow Canal and Levee Construction



**S647 Spillway Structure &
S648 Seepage Pump Station**

CEPP North

- Improves distribution of water to WCA 3A
- Features:
 - **S-620 500 cfs gated culvert**
 - S-621 2500 cfs gated spillway
 - S-622 500 cfs gated spillway
 - S-8A gated culvert and canal
 - S-630 360 cfs pump station
 - L-4 Levee Removal
 - Miami Canal Backfill with Tree Island Mounds
 - L-5 Remnant Canal
 - L-5 Canal

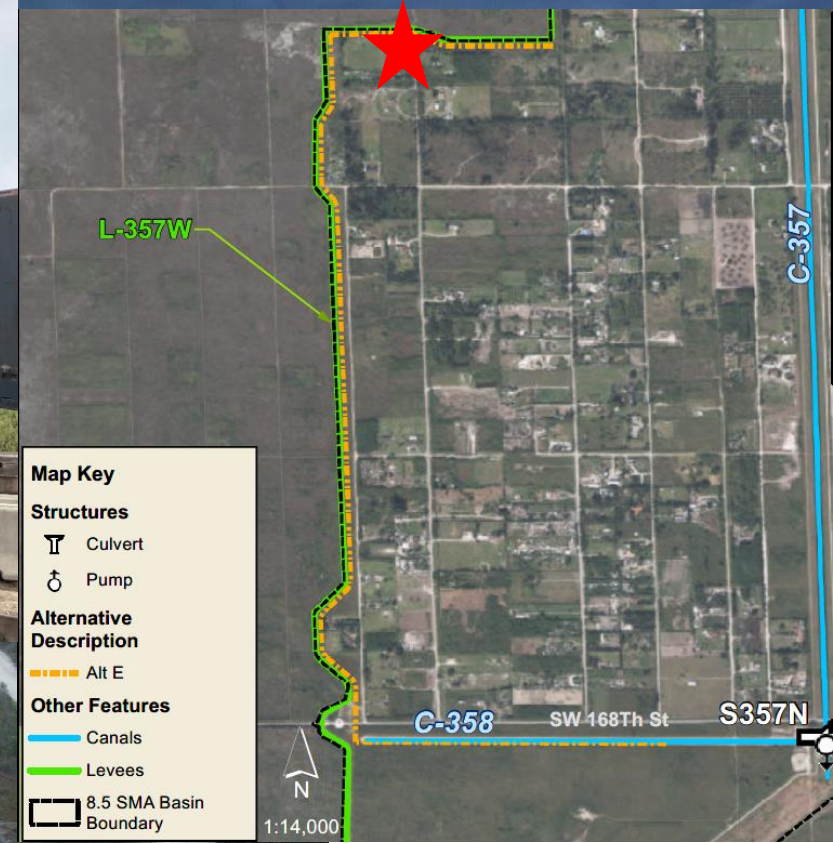


8.5 SMA Limited Curtain Wall

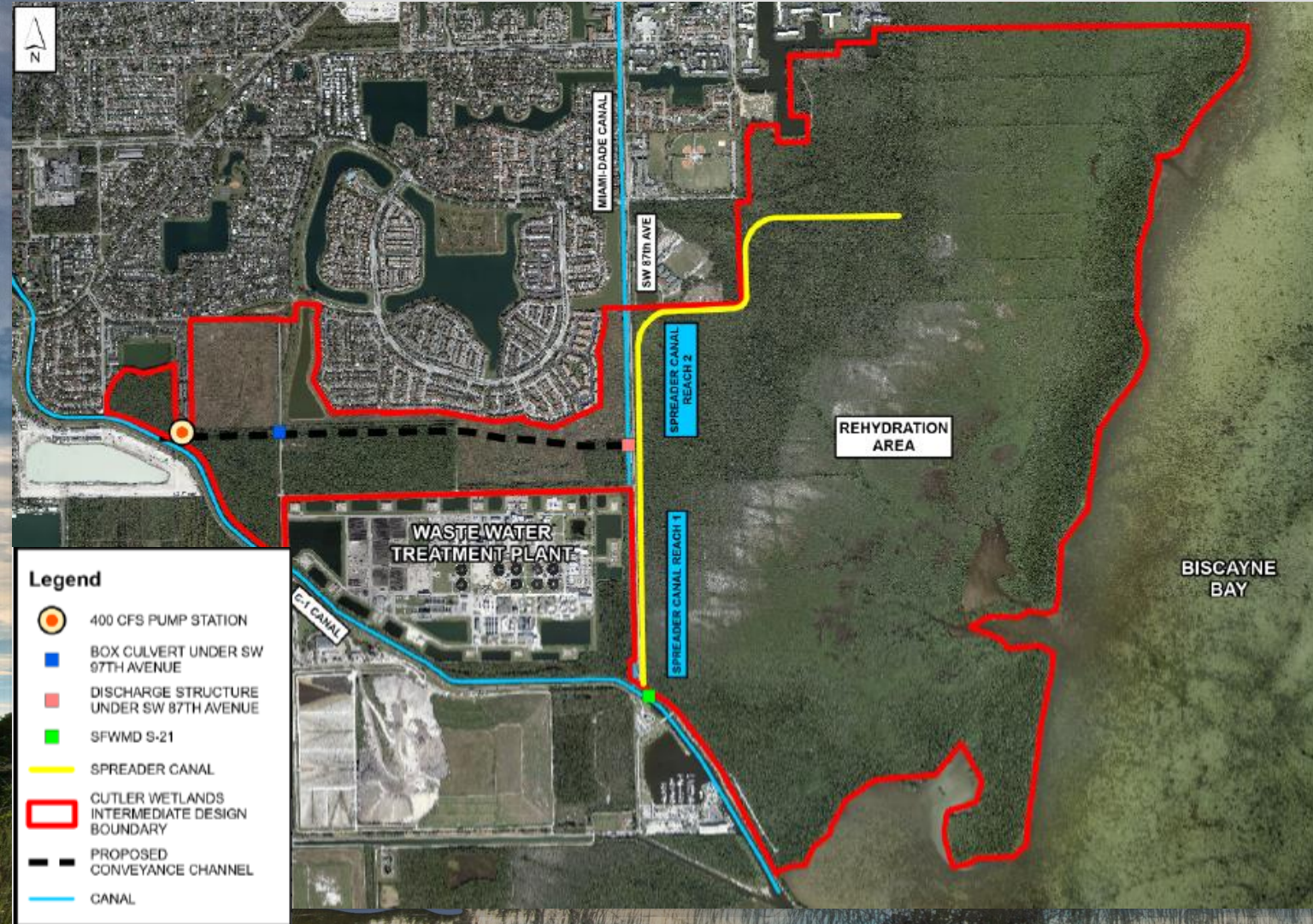
- Reduces seepage to 8.5 Square Area (SMA)
- Same or Increased stages in Everglades National Park
- 2.3 miles
- Construction April 2021
- Complete **Summer 2022**

Next Phase- CEPP New Water Seepage Barrier

- 5 Miles
- **2022**



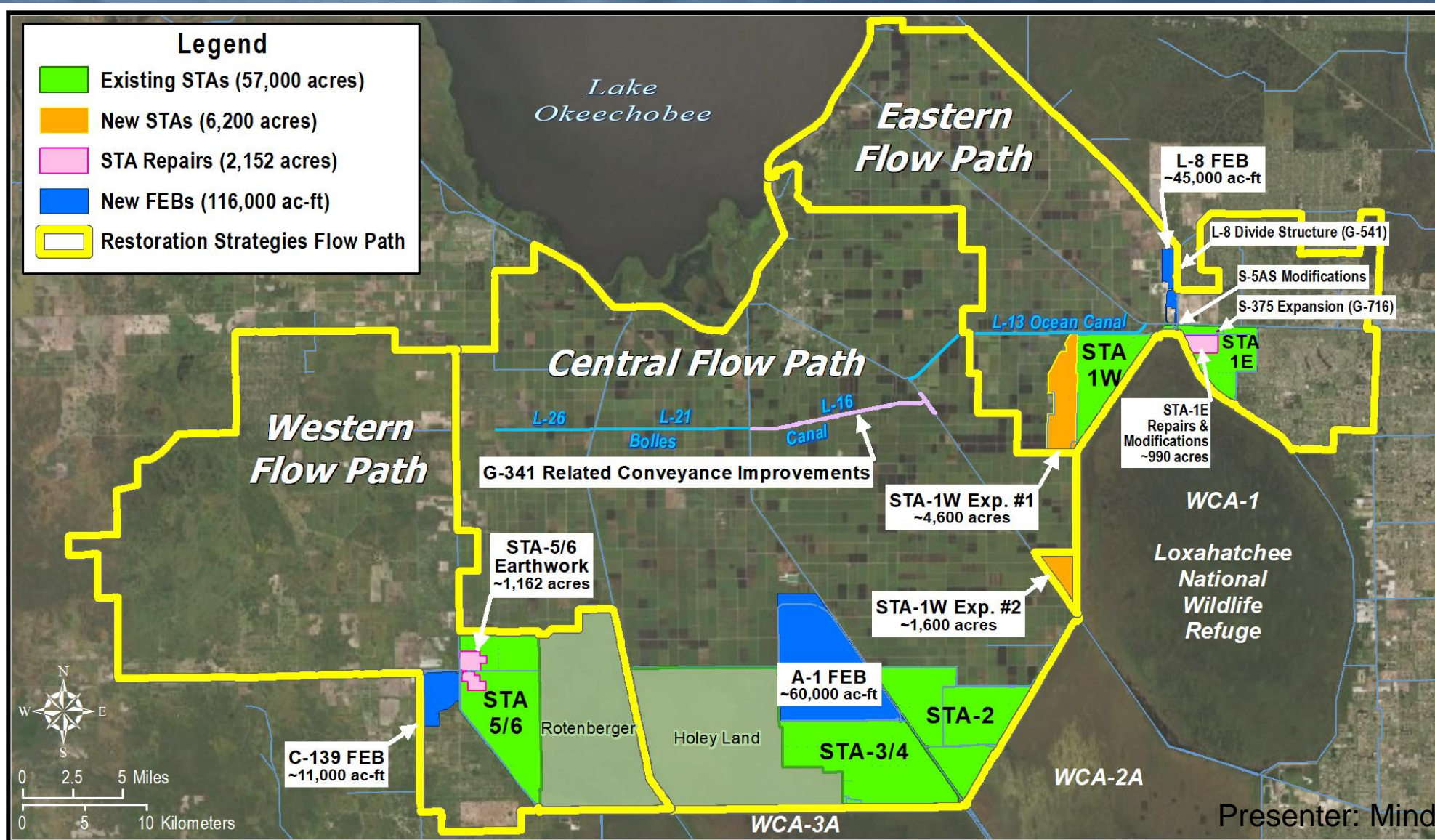
Biscayne Bay Coastal Wetlands Phase I Cutler Wetlands



- Contract 6A - **Award September 2022**
 - S-701: 400 CFS Pump Station

- Contract 6B - 2023
 - C-701: At-grade, concrete lined channel
 - S-701A: Culvert under SW 97th Ave
 - S-701B: Microtunnel under SW 87th Ave
 - C-702: Spreader canal
 - Berm breaches
 - Drainage ditch blocks
 - Recreation features

Restoration Strategies



Restoration Strategies

| EASTERN FLOW PATH | | | CENTRAL FLOW PATH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Submit state and federal permit applications | 8/1/2019 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Initial flooding and optimization period complete | 12/31/2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate design | 10/1/2012 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete design | 9/30/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 10/1/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction | 9/30/2018 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate design | 4/1/2012 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submit state and federal permit applications | 12/1/2012 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design status report | 3/1/2013 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete design | 8/1/2013 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 6/30/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2015 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction | 7/30/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational monitoring and testing period complete | 7/29/2018 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STA-1E Repairs and Modifications <table border="1"> <thead> <tr> <th>Activity</th> <th>Deadline</th> <th></th> </tr> </thead> <tbody> <tr><td>PSTA Decommissioning complete</td><td>12/31/2022</td><td>✓</td></tr> <tr><td>Culvert repairs complete</td><td>12/31/2022</td><td>✓</td></tr> <tr><td>Cell 5 and 7 improvements complete</td><td>12/31/2022</td><td>✓</td></tr> </tbody> </table> | | | Activity | Deadline | | PSTA Decommissioning complete | 12/31/2022 | ✓ | Culvert repairs complete | 12/31/2022 | ✓ | Cell 5 and 7 improvements complete | 12/31/2022 | ✓ | S-5AS Modifications (100822) <table border="1"> <thead> <tr> <th>Activity</th> <th>Deadline</th> <th></th> </tr> </thead> <tbody> <tr><td>Initiate design</td><td>10/1/2012</td><td>✓</td></tr> <tr><td>Complete design</td><td>9/30/2014</td><td>✓</td></tr> <tr><td>Initiate construction</td><td>10/1/2014</td><td>✓</td></tr> <tr><td>Complete construction</td><td>9/30/2016</td><td>✓</td></tr> </tbody> </table> | | | Activity | Deadline | | Initiate design | 10/1/2012 | ✓ | Complete design | 9/30/2014 | ✓ | Initiate construction | 10/1/2014 | ✓ | Complete construction | 9/30/2016 | ✓ | STA-5/6 Internal Improvements (100868) <table border="1"> <thead> <tr> <th>Activity</th> <th>Deadline</th> <th></th> </tr> </thead> <tbody> <tr><td>Initiate design</td><td>10/31/2019</td><td>✓</td></tr> <tr><td>Submit state and federal permit applications</td><td>8/30/2020</td><td>✓</td></tr> <tr><td>Complete design</td><td>10/31/2021</td><td>✓</td></tr> <tr><td>Initiate construction</td><td>1/31/2022</td><td>✓</td></tr> <tr><td>Construction status report</td><td>3/1/2023</td><td>✓</td></tr> <tr><td>Construction status report</td><td>3/1/2024</td><td>✓</td></tr> <tr><td>Complete construction</td><td>12/31/2024</td><td>✓</td></tr> <tr><td>Initial flooding and optimization period complete</td><td>12/31/2025</td><td></td></tr> </tbody> </table> | | | Activity | Deadline | | Initiate design | 10/31/2019 | ✓ | Submit state and federal permit applications | 8/30/2020 | ✓ | Complete design | 10/31/2021 | ✓ | Initiate construction | 1/31/2022 | ✓ | Construction status report | 3/1/2023 | ✓ | Construction status report | 3/1/2024 | ✓ | Complete construction | 12/31/2024 | ✓ | Initial flooding and optimization period complete | 12/31/2025 | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PSTA Decommissioning complete | 12/31/2022 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Culvert repairs complete | 12/31/2022 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell 5 and 7 improvements complete | 12/31/2022 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate design | 10/1/2012 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete design | 9/30/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 10/1/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction | 9/30/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate design | 10/31/2019 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submit state and federal permit applications | 8/30/2020 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete design | 10/31/2021 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 1/31/2022 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2023 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2024 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction | 12/31/2024 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial flooding and optimization period complete | 12/31/2025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Submit state and federal permit applications | 1/31/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction status report | 3/1/2015 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction (begin multi-purpose ops) | 12/31/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Long term operations commence | 12/31/2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Complete design | 7/30/2015 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 1/31/2016 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete construction | 12/31/2018 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity | Deadline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initial flooding and optimization period complete | 5/31/2014 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LEGEND <ul style="list-style-type: none"> ■ Flow Equalization Basin ■ Stormwater Treatment Area ■ Conveyance Improvement ✓ Complete | | | C-139 FEB (100867) <table border="1"> <thead> <tr> <th>Activity</th> <th>Deadline</th> <th></th> </tr> </thead> <tbody> <tr><td>Initiate design</td><td>10/31/2018</td><td>✓</td></tr> <tr><td>Submit state and federal permit applications</td><td>8/30/2019</td><td>✓</td></tr> <tr><td>Complete design</td><td>10/31/2020</td><td>✓</td></tr> <tr><td>Initiate construction</td><td>1/31/2021</td><td>✓</td></tr> <tr><td>Construction status report</td><td>3/1/2021</td><td>✓</td></tr> <tr><td>Construction status report</td><td>3/1/2022</td><td>✓</td></tr> <tr><td>Construction status report</td><td>3/1/2023</td><td>✓</td></tr> <tr><td>Complete construction</td><td>12/31/2023</td><td></td></tr> <tr><td>Operational monitoring and testing period complete</td><td>12/31/2024</td><td></td></tr> </tbody> </table> | | | Activity | Deadline | | Initiate design | 10/31/2018 | ✓ | Submit state and federal permit applications | 8/30/2019 | ✓ | Complete design | 10/31/2020 | ✓ | Initiate construction | 1/31/2021 | ✓ | Construction status report | 3/1/2021 | ✓ | Construction status report | 3/1/2022 | ✓ | Construction status report | 3/1/2023 | ✓ | Complete construction | 12/31/2023 | | Operational monitoring and testing period complete | 12/31/2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Initiate design | 10/31/2018 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submit state and federal permit applications | 8/30/2019 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complete design | 10/31/2020 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate construction | 1/31/2021 | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Complete construction | 12/31/2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operational monitoring and testing period complete | 12/31/2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Projects Complete = 8 of 13
 Activities Complete = 66 of 74
 % Activities Complete = 89 %
 % Time Complete = 72 %

STA-1W Expansion No. 2



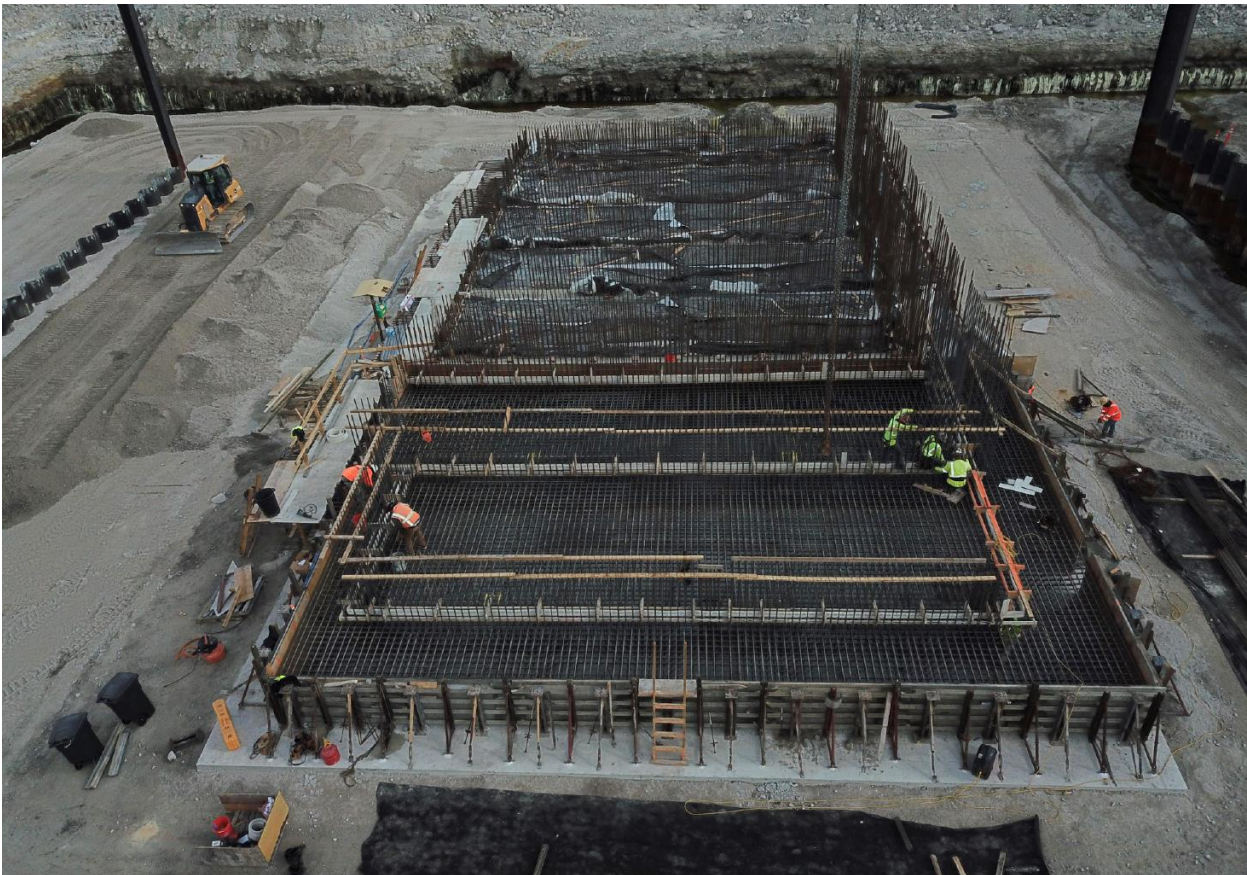
Northern Section of Concrete Conveyance Canal



North Inflow Canal and Levee



STA-1W Expansion No. 2 - Outflow Pump Station



G-782 Base Slab Rebar Placement



G-782 Base Slab Concrete Placement

Bolles East Canal - Segment 4

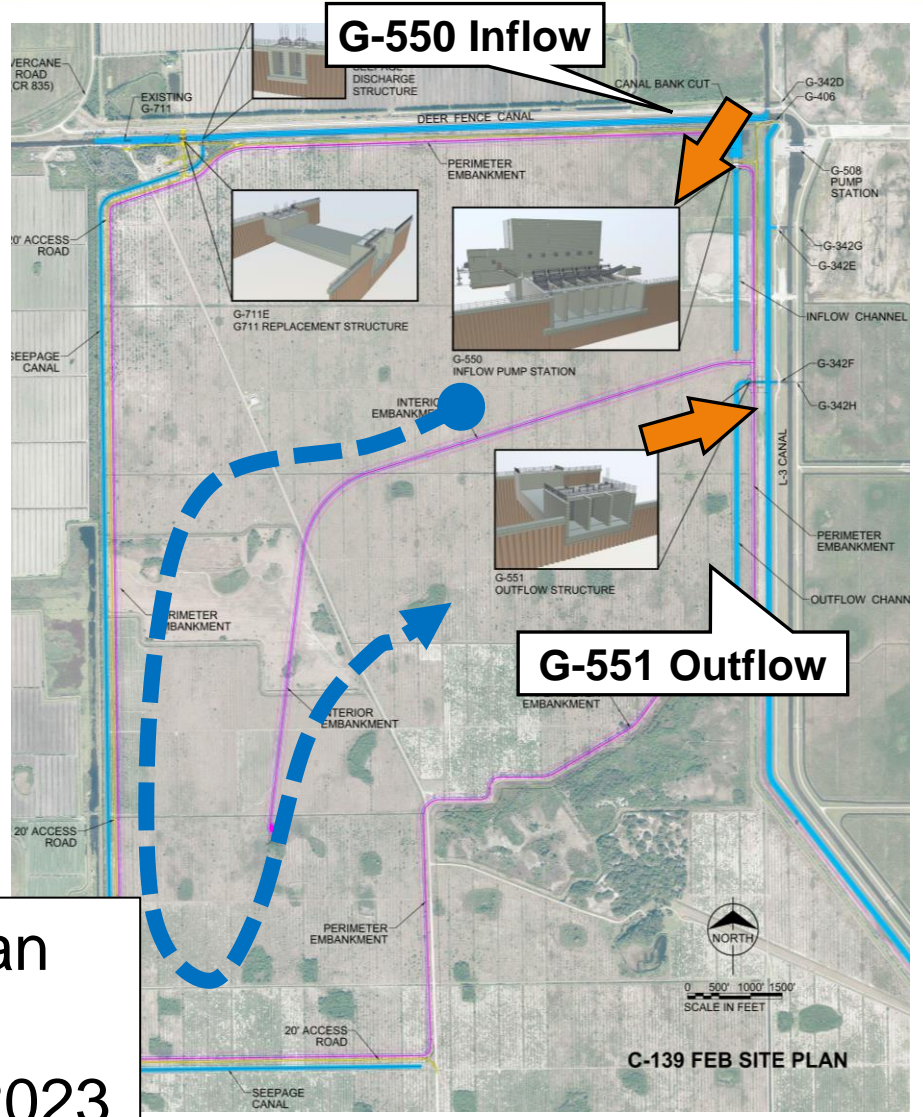
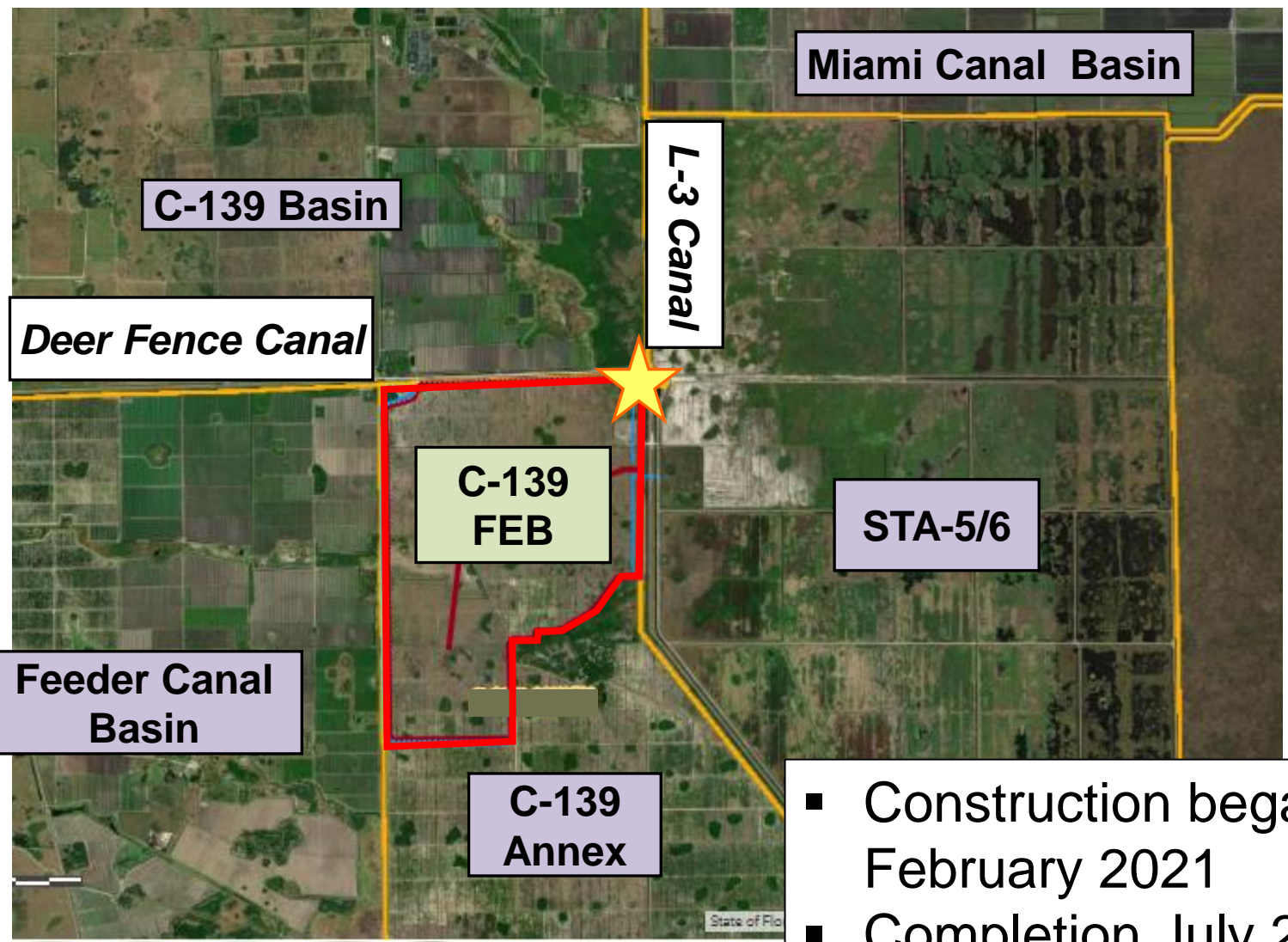


Slab Beam Installation



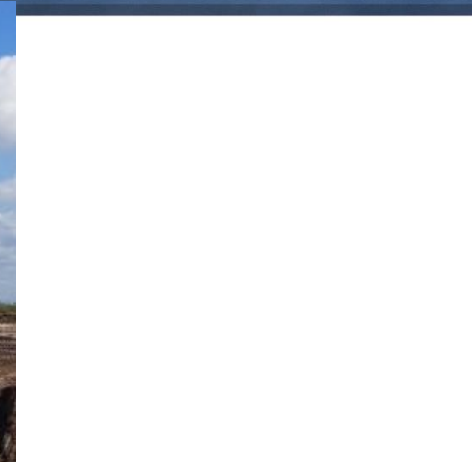
Completed Boca Chica Bridge and Canal

C-139 Flow Equalization Basin



- Construction began February 2021
- Completion July 2023

C-139 Flow Equalization Basin



Questions?

mparrott@sfwmd.gov